

EXHIBIT 4

IN THE IOWA DISTRICT COURT FOR JOHNSON COUNTY

PLANNED PARENTHOOD OF THE
HEARTLAND, INC., and
DR. JILL MEADOWS. M.D.,

Petitioners,

v.

KIM REYNOLDS *ex rel.* STATE OF IOWA
and IOWA BOARD OF MEDICINE,

Respondents.

Case No.

AFFIDAVIT OF DANIEL GROSSMAN,
M.D.

1. I am a Professor in the Department of Obstetrics, Gynecology and Reproductive Sciences at the University of California, San Francisco (UCSF) and an obstetrician-gynecologist with over twenty-five years of clinical experience. I currently provide clinical services, including abortion services, at San Francisco General Hospital. I am also a Fellow of the American College of Obstetricians and Gynecologists (ACOG), where I previously served as Vice Chair of the Committee on Practice Bulletins for Gynecology and as Chair of the ACOG Committee on Health Care for Underserved Women. I am currently a member of ACOG's Telehealth Working Group and ACOG's Abortion Access and Training Expert Work Group. I am also a Fellow of the Society of Family Planning and a member of the American Public Health Association (APHA). Additionally, I serve as Director of Advancing New Standards in Reproductive Health (ANSIRH) at UCSF. ANSIRH conducts innovative, rigorous, multidisciplinary research on complex issues related to people's sexual and reproductive lives. I am also a Senior Advisor at Ibis Reproductive Health, a nonprofit research organization. I am a liaison member of the Planned Parenthood National Medical Committee, and between 2012 and 2015, I provided clinical services with

Planned Parenthood Northern California (formerly Planned Parenthood Shasta Pacific). My research has been supported by grants from federal agencies and private foundations. I have published over 180 articles in peer-reviewed journals, and I am a member of the editorial board of the journal *Contraception*.

2. I have served as a medical expert in cases challenging medically unnecessary restrictions on abortion, including in a case that was decided by the Iowa Supreme Court, *Planned Parenthood of the Heartland, Inc. v. Reynolds ex rel. State*, 915 N.W.2d 206 (Iowa 2018), which struck as unconstitutional a statute imposing a mandatory 72-hour delay and additional trip requirement on individuals seeking to have an abortion. I was qualified in that case as an expert in obstetrics and gynecology, including abortion and informed consent procedures for abortion and in the social impact of abortion acts and abortion restrictions. I also served as a medical expert in *Planned Parenthood of the Heartland, Inc. v. Iowa Board of Medicine*, 865 N.W.2d 252 (Iowa 2015), which struck as unconstitutional rules that restricted the use of telemedicine for medication abortion.

3. I earned a B.S. in Molecular Biophysics and Biochemistry from Yale University and an M.D. from Stanford University School of Medicine. I completed a residency in Obstetrics, Gynecology, and Reproductive Sciences at UCSF.

4. An updated and current version of my curriculum vitae (CV), which sets forth my experience and credentials more fully, is attached to this affidavit as Exhibit A. My CV contains a complete list of the publications that I have authored or co-authored.

5. I submit this affidavit in support of enjoining enforcement of House File 594, to be codified at Iowa Code § 146A.1(1) (2020) (the “Amendment”), under the Iowa Constitution. I

understand that the Amendment requires patients seeking an abortion to first have an ultrasound and receive certain state-mandated information, and then wait at least 24 hours before returning for the procedure. In my opinion, this requirement will not enhance women's decision-making about abortion and will impose significant obstacles on them. These obstacles, in turn, will delay women, exposing them to unnecessary health risks and other harms, and will likely prevent some women from having an abortion at all. In addition, during the COVID-19 pandemic, forcing patients to have an additional, medically unnecessary visit to a health care facility increases the risks of viral transmission to both patients and health care providers.

6. The opinions in this affidavit are based on my education, clinical training, experience as a practicing physician over the past twenty-five years, my own medical research, regular review of other medical research in my field, and attendance at professional conferences. The facts in this affidavit are based on my personal knowledge.

7. In 2017, I submitted an affidavit in support of a temporary injunction of the 72-hour mandatory delay law. I also testified to the same facts at trial. My prior affidavit is attached hereto as Exhibit B. My prior trial testimony is attached hereto as Exhibit C. I have reviewed this testimony closely and reaffirm it in full.

8. Nothing has changed since 2017 that would alter my testimony: 1) that access to abortion care is vital to the protection to public health; 2) that abortion care is safer the earlier it occurs in pregnancy, and far safer than pregnancy and childbirth; 3) that mandatory delay laws do not enhance patient decision-making; and 4) that these laws harm patients in a number of ways, e.g. increasing their medical risk, making it impossible for some patients to end their pregnancy using medications alone without a procedure, violating their autonomy, causing severe stress,

forcing some to travel farther for care, endangering victims of reproductive coercion and other forms of intimate partner violence, and causing particular psychological harm to victims of sexual assault and patients who need an abortion for medical indications.

9. These same facts also underlie my opinion here that, like a 72-hour mandatory delay law, the Amendment will impose significant obstacles on patients that in turn will delay patients, exposing them to unnecessary health risks and other harms, and will likely prevent some women from having an abortion at all.

10. As I previously testified, state-mandated delays do not enhance patient decision-making: 1) because women are fully capable of assessing how much time they need to make their decision and 2) because the standard of care, for abortion as for other medical care, is for providers to confirm that a patient is firm in her decision before proceeding with treatment. Self-evidently, a state-mandated delay of at least 24 hours is no more likely to enhance patient decision-making than a mandated delay of an even longer period, such as 72 hours. Research since I testified in 2017 has only confirmed that patients overwhelmingly report relief after the abortion and, over time, report certainty that they made the right decision.¹

11. I understand that legislators supporting the Amendment expressed the hope that it would protect patients from being coerced into ending their pregnancy. As I testified in the 72-hour mandatory delay case, mandatory delay laws do not protect patients from coercion, and in fact *increase* the risk that they will be coerced to carry their pregnancy to term. As providers, we are trained to screen for coercion in either direction (to end or to continue a pregnancy), and this

¹ Corinne H. Rocca et al., *Emotions and Decision Rightness Over Five Years Following an Abortion: An Examination of Decision Difficulty and Abortion Stigma*, 248 Soc. Sci. & Med. 112704 (2020).

screening is central to our provision of care. It is the standard of care that, if a provider is at *all* concerned that a patient is being coerced to end her pregnancy, that provider does not proceed with the abortion.

12. We often see patients who are being pressured or coerced by partners or other family to *continue* their pregnancy. Two-trip laws like the Amendment make it harder for patients to seek care without disclosing their decision to others who may pressure or coerce them to continue their pregnancy to term.

13. As for the burdens of such laws, although a 24-hour mandatory delay law in theory imposes less automatic delay than a 72-hour mandatory delay law, in practice, it will still cause substantial delay and other harms.

14. There are two types of mandatory delay laws: 1) those, like the Amendment, that require two in-person visits to the clinic and 2) those that allow the patient to receive information remotely before undergoing the mandatory delay period.² The first category, generally described as “two-trip” laws, are especially burdensome, regardless of whether they require a minimum one-day or a three-day delay, because they require providers to schedule additional, medically unnecessary appointments and require abortion patients—most of whom are living in poverty and managing work and child care obligations—to find time and resources to make an additional, medically unnecessary trip to the clinic. The reality of matching a busy clinical schedule with a constrained patient schedule is that patients will be delayed past the prescribed period and some patients will be delayed on the order of weeks, regardless of the legally prescribed length of the

² Guttmacher Inst., *Counseling and Waiting Periods for Abortion* (updated June 1, 2020), <https://www.guttmacher.org/state-policy/explore/counseling-and-waiting-periods-abortion#:~:text=In%20states%20in%20which%20the,care%20provider%20in%20order%20to.>

delay. Indeed, much of the literature I cited in my testimony about the effects of the 72-hour law concerns the effects of 24-hour mandatory delays, e.g. in Texas and Mississippi.³ Additionally, two-trip laws double the required travel for many patients, and my understanding is that in Iowa, they would require even longer travel for patients pushed past the window for medication abortion because Planned Parenthood only offers procedural abortion at two centers: in Des Moines and Iowa City. The literature reflects that additional travel distance delays, and can prevent, patients from accessing care.⁴

15. Since I testified in the 72-hour case, research and reviews have continued to be published supporting the conclusion that mandatory delay laws substantially delay patients. For example, a recent study by Jason Lindo & Mayra Pineda-Torres found that a 48-hour law enacted in Tennessee “caused a 62-percent increase in the share of abortions obtained during the second trimester” and “increased the monetary costs of obtaining an abortion by as much as \$929 for some

³ Tex. Policy Evaluation Project, *Impact of Abortion Restrictions in Texas: Research Brief* (Apr. 2013), https://liberalarts.utexas.edu/txpep/_files/pdf/TxPEP-ResearchBrief-ImpactofAbortionRestrictions.pdf; Ted Joyce & Robert Kaestner, *The Impact of Mississippi's Mandatory Delay Law on Timing of Abortions*, 32 Fam. Plan. Persp. 4 (2000); Theodore Joyce et al., *The Impact of Mississippi's Mandatory Delay Law on Abortions and Births*, 278 JAMA 653 (1997); Deborah Karasek et al., *Abortion Patients' Experience and Perception of Waiting Periods: Survey Evidence Before Arizona's Two-Visit 24-Hour Mandatory Waiting Period Law*, 26 Women's Health Issues 60 (2016).

⁴ *Id.*; see also Daniel Grossman et al., *Change in Distance to Nearest Facility and Abortion in Texas, 2012 to 2014*, 317 JAMA 437 (2017); Jason M. Lindo et al., *How Far Is Too Far? New Evidence on Abortion Clinic Closures, Access, and Abortions*, NBER Working Paper No. 23366 (2017); Sarah C.M. Roberts et al., *Utah's 72-Hour Waiting Period for Abortion: Experiences Among a Clinic-Based Sample of Women*, 48 Persp. Sexual & Reprod. Health 179 (2016); Jessica N. Sanders et al., *The Longest Wait: Examining the Impact of Utah's 72-Hour Waiting Period for Abortion*, 26 Women's Health Issues 483 (2016); Theodore J. Joyce et al., Guttmacher Inst., *The Impact of State Mandatory Counseling and Waiting Periods on Abortion* (2009), <https://www.guttmacher.org/report/impact-state-mandatory-counseling-and-waiting-period-laws-abortion-literature-review>.

women.”⁵ In addition, the National Academies of Sciences, Engineering, and Medicine—a body composed of esteemed experts that was first established by Congress in 1863 to provide independent, objective expert analysis and advice to the nation to inform public policy—recently conducted a systematic review of the safety and quality of care of abortion in the United States, and concluded that: “Restrictive regulations, including mandatory waiting periods that require a woman to make multiple trips to the abortion facility, impact the timeliness of obtaining abortion care. These challenges are especially burdensome for poor women, women traveling long distances for care, and those with the fewest resources” (citations omitted).⁶ I am not aware of any research undermining the conclusion that mandatory delay laws cause substantial delay.

16. A two-trip law like the Amendment is especially harmful during the current COVID-19 pandemic, which is expected to continue until a vaccine is developed and available for widespread use, i.e., until early or mid-2021 at the earliest.⁷ Because COVID-19 is transmitted by interpersonal proximity, medical and public health experts agree that there is a public health

⁵ Jason M. Lindo & Mayra Pineda-Torres, *New Evidence on the Effects of Mandatory Waiting Periods for Abortion*, NBER Working Paper No. 26228 (2019).

⁶ Nat’l Acads. of Scis., Eng’g & Med., *The Safety and Quality of Abortion Care in the United States* 116 (2018); *see also* Sigrid Williams et al., *Effects of Legislation Regulation Abortion in Arizona*, 28 *Women’s Health Issues* 297 (2018) (finding that Arizona two-trip 24-hour law, in combination with a physician-only law, significantly delayed women); Sarah C.M. Roberts et al., *Complex Situations: Economic Insecurity, Mental Health, and Substance Use Among Pregnant Women Who Consider—But Do Not Have—Abortions*, 15 *PLoS ONE* e0226004 (2020) (including qualitative interviews with women who were prevented by a 24-hour mandatory delay law from accessing abortion).

⁷ Len Strazewski, *Dr. Fauci: 2021 May See Up to 300 Million Doses of COVID-19 Vaccine*, *Am. Med. Ass’n* (June 4, 2020), <https://www.ama-assn.org/delivering-care/public-health/dr-fauci-2021-may-see-300-million-doses-covid-19-vaccine> (top infectious disease expert predicting that COVID-19 vaccines may not be available to the majority of the population until 2021).

imperative to maximize social distancing throughout this time.⁸ In the context of medical care, this consensus has prompted an unprecedented push, by health care providers with the encouragement and assistance of federal and state agencies, to expand use of telemedicine technologies to ensure that patients receive care without unnecessary travel to providers or time in the health care facility.⁹ In the area of obstetrics and gynecology, this desire to minimize the risks of COVID-19 transmission to patients and health care workers has led to a rapid expansion of telehealth and a reduction in the number of required in-person visits, including for prenatal care.¹⁰

17. Reducing in-person patient visits protects patients during COVID-19 for several reasons. Traveling to a medical provider can force patients to deviate from recommended social distancing practices to arrange for child care and/or transportation. This is especially the case if they need to travel long distances, as abortion patients need to do in Iowa and elsewhere.¹¹ And

⁸ Ctrs. for Disease Control & Prevention (CDC), *Social Distancing* (last reviewed May 6, 2020), <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/social-distancing.html>.

⁹ See, e.g., Am. Med. Ass'n, *AMA Quick Guide to Telemedicine in Practice* (last updated May 22, 2020), <https://www.ama-assn.org/practice-management/digital/ama-quick-guide-telemedicine-practice> (American Medical Association stating that “use of telemedicine and remote care services are critical to the safe management of the COVID-19 pandemic”); CDC, *Framework for Healthcare Systems Providing Non-COVID-19 Clinical Care During the COVID-19 Pandemic*, <https://www.cdc.gov/coronavirus/2019-ncov/hcp/framework-non-COVID-care.html> (CDC emphasizing that providers should “[o]ptimize telehealth services, when available and appropriate, to minimize the need for in-person services”); Ctrs. for Medicare and Medicaid Servs., *Medicare Telemedicine Health Care Provider Fact Sheet* (Mar. 17, 2020), <https://www.cms.gov/newsroom/fact-sheets/medicare-telemedicine-health-care-provider-fact-sheet> (Centers for Medicare and Medicaid Services explaining that they have “broadened access to Medicare telehealth services so that beneficiaries can receive a wider range of services from their doctors without having to travel to a healthcare facility”).

¹⁰ ACOG, *COVID-19 FAQs for Obstetrician-Gynecologists, Telehealth*, <https://www.acog.org/clinical-information/physician-faqs/covid-19-faqs-for-ob-gyns-telehealth> (last visited June 22, 2020).

¹¹ Rachel K. Jones et al., Guttmacher Inst., *Abortion Incidence and Service Availability in the United States, 2017*, at 17 (2019), https://www.guttmacher.org/sites/default/files/report_pdf/abortion-incidence-service-availability-

once in the clinic, there is no way to eliminate the risk of interpersonal contact, though these risks can be mitigated. Reducing unnecessary visits also allows providers to space in-person patients in a way that minimizes transmission risks.

18. Conversely, by requiring an additional, medically unnecessary visit for abortion patients, despite the overwhelming consensus that providers should be reducing medically unnecessary medical visits during the pandemic, the Amendment puts patients and health care workers at increased risk of COVID-19 transmission. The Amendment also puts patients at risk because it will push many past the window when they can have a medication abortion, requiring them to travel farther to a clinic offering procedural abortions; such longer-distance travel further increases COVID transmission risks because it often requires stop-offs on the road and/or overnight stays away from home. These effects, in turn, undermine the public health of all Iowans.

19. For all of the foregoing reasons, the Amendment will not improve women's decision-making about abortion and will significantly burden them, diminish their access to care, and expose them and others to increased medical risk.

20. I certify under penalty of perjury and pursuant to the laws of the state of Iowa that the preceding is true and correct.

Signed this 22d day of June, 2020.

/s/ Daniel Grossman

Daniel Grossman, MD

us-2017.pdf (in 2017, 93% of Iowa counties had no clinics that provided abortions, and 58% of Iowa women lived in those counties).

EXHIBIT A

DANIEL A. GROSSMAN, M. D., F. A. C. O. G.
 Advancing New Standards in Reproductive Health, UCSF
 1330 Broadway, Suite 1100
 Oakland, CA 94612

Current position

Professor, Department of Obstetrics, Gynecology and Reproductive Sciences at the University of California, San Francisco
 Director, Advancing New Standards in Reproductive Health (ANSIRH)

Education

Sept. 1985-May 1989	Yale University-Molecular Biophysics and Biochemistry	B.S., 1989
Sept. 1989-June 1994	Stanford University School of Medicine	M.D., 1994
June 1994-June 1998	Resident and Administrative Chief Resident, Obstetrics, Gynecology and Reproductive Sciences, University of California, San Francisco	

Licenses/Certification

1996-Present	California medical licensure (A60282)
2001-Present	Board-certified, American Board of Obstetrics and Gynecology

Principal positions held

Aug. 1998-Feb. 2003	Physician, St. Luke's Women's Center, San Francisco, CA
Aug. 2005-2012	
May 2003-Aug. 2005	Health Specialist, The Population Council Regional Office for Latin America and the Caribbean, Mexico City
Aug. 2005-Aug. 2015	Senior Associate (through June 2012), Vice President for Research (starting July 2012), Ibis Reproductive Health
Sept. 2015-Present	Professor, Department of Obstetrics, Gynecology and Reproductive Sciences at the University of California, San Francisco
Sept. 2015-Present	Director, Advancing New Standards in Reproductive Health (ANSIRH)

Other positions held concurrently

Aug. 1998-Feb. 2003	Director of Medical Student Education, Department of Obstetrics and Gynecology, St. Luke's Hospital
Aug. 1998-Feb. 2003	Vice Chair, Department of Obstetrics and Gynecology, St. Luke's Hospital
Aug. 1998-2015	Assistant Clinical Professor, Bixby Center for Global Reproductive Health, Department of Obstetrics, Gynecology and Reproductive Sciences at the University of California, San Francisco
2012-2015	Contract physician, Planned Parenthood Shasta Pacific
Aug. 2015-Present	Senior Advisor, Ibis Reproductive Health

Honors and awards

- 1988 Howard W. Hilgendorf Jr. Fellowship, Yale University
- 1988 Robin Berlin Memorial Prize, Yale University
- 1989 Magna cum laude, Yale University
- 1990 Medical Scholars Award, Stanford University
- 1990 Peter Emge Traveling Fellowship, Stanford University
- 1991-1992 Foreign Language and Area Studies Fellowship, Stanford University
- 1994 Dean's Award for Research in Infectious Diseases, Stanford University
- 2007 Ortho Outstanding Researcher Award, Association of Reproductive Health Professionals
- 2009 Visionary Partner Award, Pacific Institute for Women's Health
- 2010 Scientific Paper Award, National Abortion Federation
- 2013 Gerbode Professional Development Fellowship
- 2013 Abstract selected as one of Top 4 Oral Abstracts at North American Forum on Family Planning
- 2013 Felicia Stewart Advocacy Award from the Population, Reproductive and Sexual Health Section of the American Public Health Association
- 2018 Outstanding Resident Teaching Award, Department of Obstetrics, Gynecology and Reproductive Sciences, UCSF
- 2019 Beacon of Science Award, Society of Family Planning

Key words/areas of interest

Abortion, medication abortion, second-trimester abortion, contraception, over-the-counter access to oral contraception, integration of family planning into HIV care and treatment, Latina reproductive health in the US, misoprostol and self-induction of abortion, Mexico, Peru, Bolivia, Dominican Republic, South Africa, Kenya

PROFESSIONAL ACTIVITIES**PROFESSIONAL ORGANIZATIONS**Memberships

- 2000-Present Fellow, American College of Obstetrics and Gynecology (ACOG)
- 2006-Present Fellow, Society of Family Planning
- 2004-Present American Public Health Association
- 2013-Present American Medical Association
- 2004-2011 Association of Reproductive Health Professionals
- 2004-2016 International Consortium for Medical Abortion
- 2006-Present Liaison Member, Planned Parenthood Federation of America National Medical Committee
- 2005-Present Consorcio Latinoamericano contra el Aborto Inseguro (Latin American Consortium against Unsafe Abortion)
- 2004-Present Working Group on Oral Contraceptives Over-the-Counter

Service to professional organizations

- 2008-Present Society of Family Planning, reviewer of grant proposals, abstract reviewer for annual meeting

2007-Present	American Public Health Association, Governing Councilor (2007-2009, 2010-2014), Section Secretary (2008-2009), abstract reviewer for annual meeting
2005-2012	Consortio Latinoamericano contra el Aborto Inseguro, member of Coordinating Committee
2006-Present	Working Group on Oral Contraceptives Over-the-Counter, working group coordinator and member of steering committee
2010-2013	Member, Committee on Practice Bulletins-Gynecology, ACOG
2014-2020	Member, Committee on Health Care for Underserved Women, ACOG (Vice Chair of Committee 2016-18, Chair 2018-20)
2017-2018	Member, Telehealth Task Force, ACOG
2018-Present	Member, Telehealth Working Group, ACOG
2019-Present	Member, Abortion Access and Training Expert Work Group, ACOG
2010-2016	Steering Committee member, International Consortium for Medical Abortion
2016	External advisor for Marie Stopes International research strategy meeting, March 23-24, 2016, London, UK

SERVICE TO PROFESSIONAL PUBLICATIONS

2013-Present	Editorial Board, Contraception
2004-Present	Ad hoc reviewer for Obstetrics and Gynecology (10 papers in past 5 years), American Journal of Public Health (4 papers in past 3 years), Reproductive Health Matters (6 articles in past 4 years), Expert Review of Obstetrics and Gynecology (3 review in past year), and Women's Health Issues (4 articles in past 2 years), Lancet (2 reviews in past year)

INVITED PRESENTATIONS (Selected)

International

- Second-trimester abortion. Optimizing the Potential for Medication in Pregnancy Termination in South America Conference, Lima, Peru, 2014 (invited talk).
- Participation in panel at Harvard University seminar: Politics, Public Health, and Abortion: Examining the Changing Legal Environment in Mexico and Central America, Cambridge, MA, 2014 (invited talk).
- Evidence for removing the prescription barrier to hormonal contraception. Annual meeting of the Asociacion Française pour la Contraception, Paris, France, March 2015.
- Presentations on medical abortion and second-trimester abortion, REDAAS (Red de Acceso al Aborto Seguro) meeting, Buenos Aires, Argentina, May 2015 (invited talk).
- Panel participant in panel "Gestational limits for abortion: what purpose do they serve?" and presentations on adolescent pregnancy, telemedicine provision early medical abortion, and second-trimester abortion. Fifth Research Meeting on Unintended Pregnancy and Unsafe Abortion, Mexico City, September 2015 (invited talks).
- Moving oral contraceptives over the counter as a strategy to reduce unintended pregnancy. The Human Right to Family Planning Conference, Seattle, WA, October 2015 (invited talk).
- Over-the-counter access to hormonal contraception- what are the risks and benefits?, and Introduction of the mifepristone regimen for second-trimester medical abortion in South Africa. XXI FIGO World Congress of Gynecology and Obstetrics, Vancouver, Canada, October 2015 (oral presentations).

Second-trimester abortion. Presentation at the First Latin American Meeting on Public Sector Providers of Legal Abortion, Buenos Aires, Argentina, August 2016 (invited talk).
Safety, effectiveness and acceptability of telemedicine provision of medication abortion in Iowa, NAF regional meeting, Mexico City, September 2017 (invited talk).
Abortion in the United States: A new report on safety and the effects of being denied a wanted abortion. Presentation at “Evidencias y argumentos de salud pública para la legalización del aborto en Argentina,” Buenos Aires, Argentina, May 2018 (invited talk).
Self-managed abortion in the United States. Presentation at “Abortion Beyond Bounds,” Montreal, Canada, October 2018.
Gestational age limits in the United States: legal and service delivery perspectives. Presentation at “Interrupción del embarazo y edad gestacional,” Buenos Aires, Argentina, August 2019 (invited talk).

National

Participation in panel entitled Abortion Scholarship: An Interdisciplinary Conversation, at UC Berkeley Symposium Speech, Symbols, and Substantial Obstacles: The Doing and “Undue”ing of Abortion Law since Casey, Berkeley, 2013 (invited talk).
Impact of restrictive abortion law on women in Texas. North American Forum on Family Planning, Seattle, 2013 (oral presentation).
Randomized Trial of Misoprostol versus Laminaria before Dilation and Evacuation in South Africa. Annual meeting of the National Abortion Federation, San Francisco, 2014 (oral presentation).
Introduction of the mifepristone regimen for second-trimester medical abortion in South Africa. Annual meeting of the National Abortion Federation, Baltimore, April 2015 (oral presentation).
Knowledge, opinion and experience related to abortion self-induction in Texas (oral abstract), and participant in panel “Addressing the global need for safe abortion after the first trimester.” North American Forum on Family Planning, Chicago, November 2015 (oral presentations).
Participant in panel “Addressing the Challenges Facing Women's Reproductive Health Care,” Academy Health National Health Policy Conference, Washington, DC, February 2, 2016 (invited talk).
Panel presentations entitled “Medical abortion restrictions: From label laws to abortion reversal,” “Texas: Ground Zero in the Abortion Wars” and “Stolen Lives: Impact of early adolescent pregnancy on all aspects of health,” Annual meeting of the National Abortion Federation, Austin, Texas, April 2016.
Panel presentations entitled “Evaluating Reproductive Health Policy at the State Level” and “Translating research into policy: Contributing data to the public debate when it matters most,” North American Forum on Family Planning, Denver, November 2016.
Panel presentation entitled “Abortion Outside the Clinic: Imagining Safe and Legal Abortion in a post-Roe World,” Physicians for Reproductive Health Grand Rounds, New York University School of Law, New York, March 2017.
“Safety of medication abortion provided through telemedicine: A non-inferiority study” (oral abstract), “Evaluating the provision of early medical abortion by telemedicine” (panel presentation), and “Use of research in evaluating Texas House Bill 2” (panel presentation). Annual meeting of the National Abortion Federation, Montreal, Canada, April 2017.

- Using Evidence to Inform Policy in an Era of Alternative Facts, keynote address at Family Planning Symposium, “Family Planning Post-Election: Putting on our Fatigues,” San Diego, May 2017.
- “Improving access through over-the-counter status” (panel presentation), “Building bridges, not walls: using telemedicine to expand sexual & reproductive healthcare” (panel presentation), and “Expanding access to medical abortion through clinic-to-clinic telemedicine” (panel presentation). North American Forum on Family Planning, Atlanta, October 2017.
- “Prevalence of Self-Induced Abortion Attempts among a Nationally Representative Sample of U.S. Women” (oral abstract), “What do we know about self-induced or self-managed abortion in the United States?” (panel presentation). Annual meeting of the National Abortion Federation, Seattle, April 2018.
- “Driving Health Equity Through Innovation in Health Care,” panel participant at plenary at the 2018 Planned Parenthood Federation of America National Conference, Washington, DC, April 2018.
- Innovative Contraceptive Delivery Models. Presentation at National Reproductive Health Title X Conference, Kansas City, July 2018.
- “Medication abortion in the United States” and panel participant in “The NASEM Report on Abortion Safety and Quality: implications for research, training, practice and advocacy.” North American Forum on Family Planning, New Orleans, October 2018.
- Research on telemedicine and abortion care, panel presentation. Annual meeting of the National Abortion Federation, Chicago, May 2019.
- Alternative provision models for medication abortion: from pharmacy dispensing to OTC. Annual meeting of the Mifepristone Coalition, New York City, June 2019.
- “Medication abortion with pharmacist dispensing of mifepristone: a cohort study” (oral abstract), “‘It makes sense’: pharmacists’ attitudes toward dispensing mifepristone for medication abortion” (poster), “Abortion referral practices among a national sample of obstetrician-gynecologists” (poster). Annual meeting of Society of Family Planning, Los Angeles, October 2019.

Regional and other invited presentations

- Impact of family planning cuts and abortion restrictions in Texas. Grand rounds presentation, Department of Obstetrics, Gynecology and Reproductive Sciences, UCSF, 2013.
- Improving access to early medical abortion through the use of telemedicine. Office of Population Research seminar, Princeton University, 2014 (invited talk).
- Impact of family planning cuts and abortion restrictions in Texas. Grand rounds presentation, Department of Obstetrics and Gynecology, Emory University School of Medicine, Atlanta, Georgia, February 2015.
- Impact of family planning cuts and abortion restrictions in Texas. Grand rounds presentation, Department of Obstetrics and Gynecology, Baylor University School of Medicine, Houston, Texas, April 2015.
- The causes and consequences of unintended pregnancy among women in the US military. San Francisco General Hospital grand rounds, September 2015.
- Impact of family planning cuts and abortion restrictions in Texas. Grand rounds presentation, Department of Obstetrics and Gynecology, University of New Mexico School of Medicine, Albuquerque, New Mexico, October 2015.

- Using evidence and advocacy to improve second-trimester abortion care in South Africa. Grand rounds presentation, Department of Obstetrics, Gynecology and Reproductive Sciences, UCSF, December 2015.
- UCSF/UCH Consortium Annual Supreme Court Review, panel speaker on Whole Woman's Health v. Hellerstedt, San Francisco, July 2016.
- American Gynecological Club meeting, presentation on Reproductive Health in Texas and panel participant, San Francisco, September 2016.
- Speaking science to the Court: the experience of experts in Whole Woman's Health v. Hellerstedt, panel participant, UC Hastings, San Francisco, October 2016.
- How data made the difference in the Texas abortion case before the US Supreme Court. Grand rounds presentation, Department of Obstetrics, Gynecology and Reproductive Sciences, UCSF, November 2016.
- Research That Gets Results: A Symposium on Science-Driven Policy Change, panel participant, UCSF, March 2017.
- Medication abortion: What is it and how can its potential to improve access to care be realized? Presentation for UCSF Students for Choice, April 2017.
- Medication Abortion: Supporting Women Both Inside and Outside the Clinic to Access Safe Care. Grand rounds presentation, Department of Obstetrics, Gynecology and Reproductive Sciences, UCSF, November 2017.
- Medication Abortion: Supporting Women Both Inside and Outside the Clinic to Access Safe Care. Grand rounds presentation, Department of Obstetrics and Gynecology, Kaiser San Francisco, March 2018.
- Medication Abortion: Supporting Women Both Inside and Outside the Clinic to Access Safe Care. Grand rounds presentation, Department of Obstetrics and Gynecology, University of Arizona College of Medicine, Tucson, June 2018.
- Medication Abortion: Supporting Women Both Inside and Outside the Clinic to Access Safe Care. Presentation to Medical Students for Choice, University of Kansas Medical Center, July 2018.
- Medication Abortion: Supporting Women Both Inside and Outside the Clinic to Access Safe Care. Grand rounds presentation, Department of Obstetrics and Gynecology, University of Alabama at Birmingham, October 2018.
- Self-managed abortion in the US: What's happening, and what is our role? Grand rounds presentation, Department of Obstetrics, Gynecology and Reproductive Sciences, UCSF, November 2018.
- Evidence-based advocacy to improve reproductive health. Annual Creinin Family Planning Lectureship, Department of Obstetrics, Gynecology & Reproductive Sciences, University of Pittsburgh, April 2019.
- Evidence-based advocacy to improve reproductive health. Symposium speaker at the 2019 Research Retreat, Department of Obstetrics and Gynecology, University of Colorado, October 2019.
- Demedicalizing reproductive health care: from OTC oral contraceptives to self-managed abortion. James C. and Joan Caillouette Lecture at the annual meeting of the Pacific Coast Obstetrical and Gynecological Society, San Diego, October 2019.
- Advocacy 101: How to Inform Policy Debates with Your Own Expertise in OB/GYN. Grand rounds presentation, Department of Obstetrics, Gynecology and Reproductive Sciences, UCSF, January 2020.
- Telehealth in Obstetrics and Gynecology. Grand rounds presentation, Department of Obstetrics, Gynecology and Reproductive Sciences, UCSF, April 2020.

OTHER PROFESSIONAL SERVICE

2007	Member of the International Planned Parenthood Federation Safe Abortion Action Fund Technical Review Panel
2007-2009	Steering committee member of the California Microbicide Initiative
2002-2004	Member, Medical Development Team, Marie Stopes International (London)
2013-Present:	Reviewer of fellows' research proposals for the Fellowship in Family Planning
2013-2015	Member of working group on Guidelines for Task Shifting in Abortion Provision convened by World Health Organization
2014	Discovery working group member, Preterm Birth Initiative (PTBi), UCSF
2013-2019	Board member and Secretary (2014-2016), NARAL Pro-Choice America Foundation (service completed September 26, 2019)
2014-Present	Board member, NAF
2015-2019	Board member, Shift/Whole Woman's Health Alliance (service completed May 1, 2019)
2017	Study section member, U54 Contraceptive Center proposal review panel, National Institute of Child Health and Human Development

TEACHING**FORMAL SCHEDULED CLASSES:**

Qtr	Academic Yr	Institution Course Title	Teaching Contribution	Class Size
W	2008-09	Harvard School of Public Health; GHP502 International reproductive health issues: Moving from theory to practice	Lecturer; 2 lectures	22
W	2009-10	Harvard School of Public Health; GHP502 International reproductive health issues: Moving from theory to practice	Lecturer; 1 lecture	17
F	2014-15	UCSF Coursera course; Abortion: Quality Care and Public Health Implications	Lecturer; 4 lectures	6,000+ (online)
F	2015-16	University of Texas at Austin; Sociology--Reproductive Health and Population in Texas; SS 301 Honors Social Science	Lecturer; 1 lecture	20
S	2016-17	UC Berkeley School of Law; 224.6 - Selected Topics in Reproductive Justice	Lecturer; 1 lecture	12
S	2018-19	University of Texas at Austin; Sociology—Graduate seminar in human fertility	Lecturer; 1 seminar	8
W	2019-20	UCSF: Family Planning and Reproductive Choices elective	Lecturer; 1 lecture	20

POSTGRADUATE and OTHER COURSES

Guest lecturer in “Qualitative Research Methods in Public Health,” CUNY School of Public Health, September 2011

Women’s health from a global perspective. Presentation at Obstetrics and Gynecology Update: What Does the Evidence Tell Us? UCSF CME course, San Francisco, 2007.

Expanding access to medication abortion. Presentation at Obstetrics and Gynecology Update: What Does the Evidence Tell Us? UCSF CME course, San Francisco, 2017.

A world post Roe v. Wade. Presentation at Obstetrics and Gynecology Update: What Does the Evidence Tell Us? UCSF CME course, San Francisco, 2019.

TEACHING AIDS

Contributed to the development of a training slide set on medical abortion in Spanish, 2004
Developed pocket cards on emergency contraception for use by community health workers in the State of Mexico, 2005

Reviewed and provided input on a manual on gynecologic uses of misoprostol published by the Latin American Federation of Obstetric and Gynecologic Societies (FLASOG), 2005

Grossman D. Medical methods for first trimester abortion: RHL commentary (last revised: 3 September 2004). The WHO Reproductive Health Library, No 8, Update Software Ltd, Oxford, 2005. Excerpt available at:

<http://www.rhlibrary.com/Commentaries/htm/Dgcom.htm>.

Grossman D. Medical methods for first trimester abortion: RHL practical aspects (last revised: 3 September 2004). The WHO Reproductive Health Library, No 8, Update Software Ltd, Oxford, 2005.

RESEARCH AND CREATIVE ACTIVITIES**PEER REVIEWED PUBLICATIONS**

1. Laudon M, Grossman DA, Ben-Jonathan N. Prolactin-releasing factor: cellular origin in the intermediate lobe of the pituitary. *Endocrinology* 1990; 126(6):3185-92.
2. Grossman DA, Witham ND, Burr DH, Lesmana M, Rubin FA, Schoolnik GK, Parsonnet J. Flagellar serotypes of *Salmonella typhi* in Indonesia: relationships among motility, invasiveness, and clinical illness. *Journal of Infectious Diseases* 1995; 171(1):212-6.
3. MacIsaac L, Grossman D, Balistreri E, Darney P. A randomized controlled trial of laminaria, oral misoprostol, and vaginal misoprostol before abortion. *Obstetrics and Gynecology* 1999; 93(5, pt.1):766-770.
4. Grossman D, Ellertson C, Grimes DA, Walker D. Routine follow-up visits after first-trimester induced abortion. *Obstetrics and Gynecology* 2004; 103(4):738-45.
5. Lafaurie MM, Grossman D, Troncoso E, Billings DL, Chávez S. Women’s perspectives on medical abortion in Mexico, Colombia, Ecuador and Peru: a qualitative study. *Reproductive Health Matters* 2005;13(26):75-83.
6. Grossman D, Ellertson C, Abuabara K, Blanchard K. Barriers to contraceptive use present in product labeling and practice guidelines. *American Journal Public Health* 2006;96(5):791-9.

7. Yeatman SE, Potter JE, Grossman DA. Over-the-counter access, changing WHO guidelines, and the prevalence of contraindicated oral contraceptive use in Mexico. *Studies in Family Planning* 2006; 37(3):197–204.
8. Pace L, Grossman D, Chavez S, Tavera L, Lara D, Guerrero R. Legal Abortion in Peru: Knowledge, attitudes and practices among a group of physician leaders. *Gaceta Medica de Mexico* 2006; 142(Supplement 2):91-5.
9. Lara D, Abuabara K, Grossman D, Diaz C. Pharmacy provision of medical abortifacients in a Latin American city. *Contraception* 2006;74(5):394-9.
10. Tinajeros F, Grossman D, Richmond K, Steele M, Garcia SG, Zegarra L, Revollo R. Diagnostic accuracy of a point-of-care syphilis test when used among pregnant women in Bolivia. *Sexually Transmitted Infections* 2006;82 Suppl 5:v17-21.
11. Clark W, Gold M, Grossman D, Winikoff B. Can mifepristone medical abortion be simplified? A review of the evidence and questions for future research. *Contraception* 2007;75:245-50.
12. Garcia SG, Tinajeros F, Revollo R, Yam EA, Richmond K, Díaz-Olavarrieta C, Grossman D. Demonstrating public health at work: A demonstration project of congenital syphilis prevention efforts in Bolivia. *Sexually Transmitted Diseases* 2007;34(7):S37-S41.
13. Díaz-Olavarrieta C, García SG, Feldman BS, Polis AM, Revollo R, Tinajeros F, Grossman D. Maternal syphilis and intimate partner violence in Bolivia: a gender-based analysis of implications for partner notification and universal screening. *Sex Transm Dis* 2007;34(7 Suppl):S42-6.
14. Harper CC, Blanchard K, Grossman D, Henderson J, Darney P. Reducing Maternal Mortality due to Abortion: Potential Impact of Misoprostol in Low-resource Settings. *International Journal of Gynecology and Obstetrics* 2007;98:66-9.
15. Grossman D, Berdichevsky K, Larrea F, Beltran J. Accuracy of a semi-quantitative urine pregnancy test compared to serum beta-hCG measurement: a possible tool to rule-out ongoing pregnancy after medication abortion. *Contraception* 2007;76(2):101-4.
16. Lara D, van Dijk M, Garcia S, Grossman D. La introducción de la anticoncepción de emergencia en la norma oficial mexicana de planificación familiar (The introduction of emergency contraception into the official Mexican family planning norms). *Gaceta Médica de México* 2007;143(6): 483-7.
17. Grossman D, Blanchard K, Blumenthal P. Complications after second trimester surgical and medical abortion. *Reproductive Health Matters* 2008;16(31 Supplement):173-82.
18. Grossman D, Fernandez L, Hopkins K, Amastae J, Garcia SG, Potter JE. Accuracy of self-screening for contraindications to combined oral contraceptive use. *Obstetrics and Gynecology* 2008; 112(3):572-8.
19. Grossman D. Should the oral contraceptive pill be available without prescription? Yes. *British Medical Journal* 2008;337:a3044.
20. Levin C, Grossman D, Berdichevsky K, Diaz C, Aracena B, Garcia S, Goodyear L. Exploring the economic consequences of unsafe abortion: implications for the costs of service provision in Mexico City. *Reproductive Health Matters* 2009;17(33):120–132.
21. Hu D, Grossman D, Levin C, Blanchard K, Goldie SJ. Cost-Effectiveness Analysis of Alternative First-Trimester Pregnancy Termination Strategies in Mexico City. *BJOG* 2009;116:768–779.

22. Távara-Orozco L, Chávez S, Grossman D, Lara D, Blandón MM. Disponibilidad y uso obstétrico del misoprostol en los países de América [Availability and obstetric use of misoprostol in Latin American countries]. *Revista Peruana de Ginecología y Obstetricia* 2009;54:253-263.
23. Lara DK, Grossman D, Muñoz J, Rosario S, Gomez B, Garcia SG. Acceptability and use of female condom and diaphragm among sex workers in Dominican Republic: Results from a prospective study. *AIDS Education and Prevention* 2009;21(6):538-551.
24. Grossman D, Fernandez L, Hopkins K, Amastae J, Potter JE. Perceptions of the safety of oral contraceptives among a predominantly Latina population in Texas. *Contraception* 2010;81(3):254-60. (NIHMS155993)
25. Potter JE, White K, Hopkins K, Amastae J, Grossman D. Clinic versus Over-the-Counter Access to Oral Contraception: Choices Women Make in El Paso, Texas. *American Journal of Public Health* 2010;100(6):1130-6. (NIHMS 221745)
26. Phillips K, Grossman D, Weitz T, Trussell J. Bringing evidence to the debate on abortion coverage in health reform legislation: findings from a national survey in the United States. *Contraception* 2010;82(2):129-30.
27. Hu D, Grossman D, Levin C, Blanchard K, Adanu R, Goldie SJ. Cost-Effectiveness Analysis of Unsafe Abortion and Alternative First-Trimester Pregnancy Termination Strategies in Nigeria and Ghana. *African Journal of Reproductive Health* 2010;14(2):85-103.
28. Grossman D, Holt K, Peña M, Veatch M, Gold M, Winikoff B, Blanchard K. Self-induction of abortion among women in the United States. *Reproductive Health Matters* 2010;18(36):136-146.
29. Grossman D, Grindlay K. Alternatives to ultrasound for follow-up after medication abortion: A systematic review. *Contraception* 2011;83(6):504-10.
30. Liang S-Y, Grossman D, Phillips K. Women's out-of-pocket expenditures and dispensing patterns for oral contraceptive pills between 1996 and 2006. *Contraception* 2011;83(6):528-36.
31. Blanchard K, Bostrom A, Montgomery E, van der Straten A, Lince N, de Bruyn G, Grossman D, Chipato T, Ranjee G, Padian N. Contraception use and effectiveness among women in a trial of the diaphragm for HIV prevention. *Contraception* 2011;83(6):556-63.
32. Grossman D, White K, Hopkins K, Amastae J, Shedlin M, Potter JE. Contraindications to Combined Oral Contraceptives Among Over-the-Counter versus Prescription Users. *Obstet Gynecol* 2011;117(3):558-65.
33. Potter JE, McKinnon S, Hopkins K, Amastae J, Shedlin MG, Powers DA, Grossman D. Continuation of prescribed compared with over-the-counter oral contraceptives. *Obstet Gynecol* 2011;117(3):551-7.
34. Grindlay K, Yanow S, Jelinska K, Gomperts R, Grossman D. Abortion restrictions in the US military: Voices from women deployed overseas. *Women's Health Issues* 2011;21(4):259-64.
35. Grossman D, Grindlay K, Buchacker T, Lane K, Blanchard K. Effectiveness and Acceptability of Medical Abortion Provided Through Telemedicine. *Obstetrics and Gynecology* 2011;118(2 Pt 1):296-303.
36. Holt K, Grindlay K, Taskier M, Grossman D. Unintended pregnancy and contraceptive use among women in the US military: A systematic literature review. *Military Medicine* 2011;176(9):1056-64.

37. Harris LH, Grossman D. Confronting the challenge of unsafe second-trimester abortion. *Int J Gynaecol Obstet* 2011;115(1):77-9.
38. Grossman D, Constant D, Lince N, Alblas M, Blanchard K, Harries J. Surgical and medical second trimester abortion in South Africa: a cross-sectional study. *BMC Health Serv Res.* 2011;11(1):224.
39. Harries J, Lince N, Constant C, Hargey A, Grossman D. The challenges of offering public second trimester abortion services in South Africa: Health care providers' perspectives. *Journal of Biosocial Science* 2011;17:1-12.
40. Dennis A, Grossman D. Barriers to Contraception and Interest in Over-the-Counter Access Among Low-Income Women: A Qualitative Study. *Perspect Sex Reprod Health* 2012;44(2):84-91.
41. Foster DG, Higgins J, Karasek D, Ma S, Grossman D. Attitudes toward unprotected intercourse and risk of pregnancy among women seeking abortion. *Women's Health Issues* 2012;22(2):e149-55.
42. Foster DG, Karasek D, Grossman D, Darney P, Schwarz EB. Interest in using intrauterine contraception when the option of self-removal is provided. *Contraception* 2012;85(3):257-62.
43. White K, Potter JE, Hopkins K, Fernández L, Amastae J, Grossman D. Contraindications To Progestin-Only Oral Contraceptive Pills Among Reproductive Aged Women. *Contraception* 2012;86(3):199-203.
44. Harrington EK, Newmann SJ, Onono M, Schwartz KD, Bukusi EA, Cohen C, Grossman D. Fertility intentions and interest in integrated family planning services among HIV-infected women in Nyanza Province, Kenya: a qualitative study. *Infectious Diseases in Obstetrics and Gynecology* 2012;2012, Article ID 809682. doi:10.1155/2012/809682.
45. Lessard L, Karasek D, Ma S, Darney P, Deardorff J, Lahiff M, Grossman D, Foster DG. Contraceptive features preferred by women at high risk of unintended pregnancy. *Perspectives on Sexual and Reproductive Health* 2012;44(3):194-200.
46. Grossman D, Garcia S, Kingston J, Schweikert S. Mexican women seeking safe abortion services in San Diego, California. *Health Care Women Int* 2012;33(11):1060-9.
47. Hopkins K, Grossman D, White K, Amastae J, Potter JE. Reproductive health preventive screening among clinic vs. over-the-counter oral contraceptive users. *Contraception* 2012;86(4):376-82.
48. Potter JE, White K, Hopkins K, McKinnon S, Shedlin MG, Amastae J, Grossman D. Frustrated Demand for Sterilization among Low-Income Latinas in El Paso, Texas. *Perspectives on Sexual and Reproductive Health* 2012;44(4):228-235.
49. White K, Grossman D, Hopkins K, Potter JE. Cutting family planning in Texas. *N Engl J Med* 2012;367(13):1179-81.
50. Liang S-Y, Grossman D, Phillips K. User characteristics and out-of-pocket expenditures for progestin-only versus combined oral contraceptives. *Contraception* 2012;86(6):666-72.
51. Manski R, Dennis A, Blanchard K, Lince N, Grossman D. Bolstering the Evidence Base for Integrating Abortion and HIV Care: A Literature Review. *AIDS Research and Treatment* 2012 (2012), Article ID 802389. doi:10.1155/2012/802389.
52. Schwarz EB, Burch EJ, Parisi SM, Tebb KP, Grossman D, Mehrotra A, Gonzales R. Computer-assisted provision of hormonal contraception in acute care settings. *Contraception* 2013;87(2):242-50.

53. Grindlay K, Grossman D. Contraception access and use among U.S. servicewomen during deployment. *Contraception* 2013;87(2):162-9.
54. Grossman D, Grindlay K, Buchacker T, Potter JE, Schmertmann CP. Changes in service delivery patterns after introducing telemedicine provision of medical abortion in Iowa. *Am J Public Health* 2013;103(1):73-78.
55. Potter JE, Stevenson AJ, White K, Hopkins K, Grossman D. Hospital variation in postpartum tubal sterilization rates in California and Texas. *Obstetrics and Gynecology* 2013;121(1):152-8.
56. Grindlay K, Grossman D. Unintended Pregnancy Among Active Duty Women in the United States Military, 2008. *Obstetrics and Gynecology* 2013;121(2 Pt 1):241-6.
57. Hyman A, Blanchard K, Coeytaux F, Grossman D, Teixeira A. Misoprostol in women's hands: a harm reduction strategy for unsafe abortion. *Contraception* 2013;87(2):128-30.
58. Grindlay K, Grossman D, Lane K. Women's and Providers' Experiences with Medical Abortion Provided Through Telemedicine: A Qualitative Study. *Women's Health Issues* 2013;23(2):e117-22.
59. Shedlin M, Amastae J, Potter J, Hopkins K, Grossman D. Knowledge & Beliefs about Reproductive Anatomy and Physiology among Mexican-Origin Women in the U.S.: Implications for Effective Oral Contraceptive Use. *Cult Health Sex* 2013;15(4):466-79.
60. Newmann SJ, Mishra K, Onono M, Bukusi E, Cohen CR, Gage O, Odeny R, Schwartz KD, Grossman D. Providers' perspectives on provision of family planning to HIV-positive individuals in HIV care in Nyanza Province, Kenya. *AIDS Research and Treatment* 2013;2013, Article ID 915923. <http://dx.doi.org/10.1155/2013/915923>.
61. Steinfeld R, Newmann SJ, Onono M, Cohen CR, Bukusi E, Grossman D. Overcoming Barriers to Family Planning through Integration: Perspectives of HIV-Positive Men in Nyanza Province, Kenya. *AIDS Research and Treatment* 2013;2013, Article ID 861983, <http://dx.doi.org/10.1155/2013/861983>.
62. Henderson JT, Puri M, Blum M, Harper CC, Rana A, Gurung G, Pradhan N, Regmi K, Malla K, Sharma S, Grossman D, Bajracharya L, Satyal I, Acharya S, Lamchhane P, Darney PD. Effects of Abortion Legalization in Nepal, 2001–2010. *PLoS ONE* 2013;8(5): e64775. doi:10.1371/journal.pone.0064775.
63. Grossman D. Moving oral contraceptives over the counter as a strategy to reduce unintended pregnancy. *Annals of Internal Medicine* 2013;158(11):839-40.
64. Committee on Practice Bulletins-Gynecology, American College of Obstetricians and Gynecologists, with Steinauer J, Jackson A, Grossman D. Practice Bulletin No 135: Second-trimester abortion. *Obstet Gynecol* 2013;121(6):1394-1406.
65. Foster DG, Biggs MA, Grossman D, Schwarz EB. Interest in a pericoital pill among women in family planning and abortion clinics. *Contraception* 2013;88(1):141-6.
66. White K, Hopkins K, Potter JE, Grossman D. Knowledge and attitudes about long-acting reversible contraception among Latina women who desire sterilization. *Women's Health Issues* 2013;23(4):e257-e263.
67. Grindlay K, Burns B, Grossman D. Prescription requirements and over-the-counter access to oral contraceptives: A global review. *Contraception* 2013;88(1):91-6.
68. McIntosh J, Wahlin B, Grindlay K, Batchelder M, Grossman D. Insurance and Access Implications of an Over-the-Counter Switch for a Progestin-Only Pill. *Perspectives on Sexual and Reproductive Health* 2013;45(3):164-9.

69. Grossman D, Grindlay K, Li R, Potter JE, Trussell J, Blanchard K. Interest in over-the-counter access to oral contraceptives among women in the United States. *Contraception* 2013;88(4):544-52.
70. Grossman D, Onono M, Newmann SJ, Blat C, Bukusi EA, Shade SB, Steinfeld RL, Cohen CR. Integration of family planning services into HIV care and treatment in Kenya: a cluster-randomized trial. *AIDS* 2013; 27(Suppl 1):S77-S85.
71. Shade SB, Kevany S, Onono M, Ochieng G, Steinfeld RL, Grossman D, Newmann SJ, Blat C, Bukusi EA, Cohen CR. Cost, Cost-efficiency and Cost-effectiveness of Integrated Family Planning and HIV Services in Nyanza, Kenya. *AIDS* 2013; 27(Suppl 1):S87-S92.
72. van Dijk MG, Lara Pineda D, Grossman D, Sorhaindo A, García SG. The Female Condom: A Promising but Unavailable Method for Dominican Sex Workers, Their Clients, and Their Partners. *Journal of the Association of Nurses in AIDS Care* 2013;24(6):521-9.
73. White K, Potter JE, Hopkins K, Amastae J, Grossman D. Hypertension among oral contraceptive users in El Paso, Texas. *Journal of Health Care for the Poor and Underserved* 2013;24(4):1511-21.
74. Withers M, Dworkin S, Harrington E, Kwena Z, Onono M, Bukusi E, Cohen CR, Grossman D, Newmann SJ. Fertility intentions among HIV-infected, sero-concordant Kenyan couples in Nyanza Province, Kenya. *Cult Health Sex* 2013;15(10):1175-90.
75. Newmann SJ, Grossman D, Blat C, Onono M, Steinfeld RL, Bukusi EA, Shade SB, Cohen CR. Does integrating family planning into HIV care and treatment impact intention to use contraception? Patient perspectives from HIV-infected individuals in Nyanza Province, Kenya. *Int J Gynaecol Obstet* 2013;123 Suppl 1:e16-23.
76. Grossman D, Fuentes L. Over-the-counter access to oral contraceptives as a reproductive healthcare strategy. *Curr Opin Obstet Gynecol* 2013;25(6):500-5.
77. White K, Potter JE, Hopkins K, Grossman D. Variation in postpartum contraceptive method use: Results from the Pregnancy Risk Assessment Monitoring System (PRAMS). *Contraception* 2014;89(1):57-62.
78. Burns B, Grindlay K, Holt K, Manski R, Grossman D. Military sexual trauma among U.S. servicewomen during deployment: A qualitative study. *AJPH* 2014;104:345-349.
79. Committee on Practice Bulletins-Gynecology, American College of Obstetricians and Gynecologists, with Creinin M, Grossman D. Practice Bulletin No 143: Medical management of first-trimester abortion. *Obstet Gynecol* 2014;123(3):676-92.
80. Wahlin B, Grindlay K, Grossman D. Should Oral Contraceptives Be Available Over the Counter? *Food and Drug Policy Forum* 2014; 4(3).
81. Constant D, Grossman D, Lince N, Harries J. Self-induction of abortion among women accessing second trimester abortion services in the public sector, Western Cape, South Africa: An exploratory study. *South African Medical Journal* 2014;104(4):302-305.
82. Onono M, Blat C, Miles S, Steinfeld R, Wekesa P, Bukusi EA, Owuor K, Grossman D, Cohen CR, Newmann SJ. Impact of family planning health talks by lay health workers on contraceptive knowledge and attitudes among HIV-infected patients in rural Kenya. *Patient Educ Couns* 2014;94(3):438-41.
83. Grossman D, White K, Hopkins K, Potter JE. The public health threat of anti-abortion legislation. *Contraception* 2014;89:73-4.

84. Foster DG, Grossman D, Turok DK, Peipert JF, Prine L, Schreiber CA, Jackson A, Barar R, Schwarz EB. Interest in and experience with IUD self-removal. *Contraception* 2014;90(1):54-9.
85. Manski R, Grindlay K, Burns B, Holt K, Grossman D. Reproductive health access among deployed U.S. servicewomen: a qualitative study. *Military Medicine* 2014;1179(6):645-52.
86. Grindlay K, Foster DG, Grossman D. Attitudes Toward Over-the-Counter Access to Oral Contraceptives Among a Sample of Abortion Clients in the United States. *Perspect Sex Reprod Health* 2014;46(2):83-9.
87. Grossman D, Constant D, Lince-Deroche N, Harries J, Kluge J. A randomized trial of misoprostol versus laminaria before dilation and evacuation in South Africa. *Contraception* 2014;90(3):234-41.
88. Patel R, Baum S, Grossman D, Steinfeld R, Onono M, Cohen CR, Bukusi EA, Newmann SJ. HIV-positive men's experiences with integrated family planning and HIV services in western Kenya: Integration fosters male involvement. *AIDS Patient Care STDS* 2014;28(8):418-24.
89. Blanchard K, Chipato T, Ramjee G, Nhemachena T, Harper CC, and the Provider Study Writing Committee (including Grossman D). Clinicians' perceptions and provision of hormonal contraceptives for HIV positive and at-risk women in Southern Africa: an original research article. *Contraception* 2014;90(4):391-8.
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91. Potter JE, Hopkins K, Aiken ARA, Hubert Lopez C, Stevenson AJ, White K, Grossman D. Unmet Demand for Highly Effective Postpartum Contraception in Texas. *Contraception* 2014;90(5):488-95.
92. Grossman D, Baum S, Fuentes L, White K, Hopkins K, Stevenson A, Potter JE. Change in abortion services after implementation of a restrictive law in Texas. *Contraception* 2014;90(5):496-501.
93. Raymond EG, Grossman D, Weaver MA, Toti S, Winikoff B. Mortality of induced abortion, other outpatient surgical procedures, and common activities in the United States. *Contraception* 2014;90(5):476-9.
94. Tao AR, Onono M, Baum S, Grossman D, Steinfeld R, Cohen CR, Bukusi EA, Newmann SJ. Providers' perspectives on male involvement in family planning in the context of family planning/HIV integration in Nyanza, Kenya. *AIDS Care* 2015;27(1):31-7.
95. Grindlay K, Grossman D. Women's perspectives on age restrictions for over-the-counter access to oral contraceptives in the United States. *J Adolesc Health* 2015;56(1):38-43.
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97. Biggs MA, Rocca CH, Brindis CD, Hirsch H, Grossman, D. Did increasing use of highly effective contraception contribute to declining abortions in Iowa? *Contraception* 2015;91:167-73.
98. Lara D, Holt K, Pena M, Grossman D. Knowledge of abortion laws and services among low-income women in three United States cities. *J Immigr Minor Health* 2015;17(6):1811-8.

99. Hopkins K, White K, Linkin F, Hubert C, Grossman D, Potter JE. Women's Experiences Seeking Publicly Funded Family Planning Services in Texas. *Perspect Sex Reprod Health* 2015;47(2):63-70.
100. White K, Hopkins K, Aiken A, Stevenson A, Hubert C, Grossman D, Potter JE. The impact of reproductive health legislation on family planning clinic services in Texas. *AJPH* 2015;105(5):851-8.
101. Foster DG, Biggs MA, Phillips KA, Grindlay K, Grossman D. Potential Public Sector Cost-Savings from Over-the-Counter Access to Oral Contraceptives. *Contraception* 2015;91(5):373-9.
102. Onono M, Guzé MA, Grossman D, Steinfeld R, Bukusi EA, Shade S, Cohen CR, Newmann SJ. Integrating family planning and HIV services in western Kenya: the impact on HIV-infected patients' knowledge of family planning and male attitudes toward family planning. *AIDS Care* 2015;27(6):743-52.
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104. Grossman D, White K, Harris L, Reeves M, Blumenthal PD, Winikoff B, Grimes DA. Continuing pregnancy after mifepristone and "reversal" of first-trimester medical abortion: a systematic review. *Contraception* 2015;92:206-11.
105. Dennis A, Fuentes L, Douglas-Durham E, Grossman D. Barriers to and Facilitators of Moving Miscarriage Management Out of the Operating Room. *Perspect Sex Reprod Health* 2015;47(3):141-9.
106. Grossman D, Goldstone P. Mifepristone by prescription: a dream in the United States but reality in Australia. *Contraception* 2015;92:186-9.
107. Baum S, DePiñeres T, Grossman D. Delays and barriers to care in Colombia among women obtaining legal first- and second-trimester abortion. *International Journal of Gynecology and Obstetrics* 2015;131(3):285-8.
108. Lince-Deroche N, Constant D, Harries J, Blanchard K, Sinanovic E, Grossman D. The Costs of Accessing Abortion in South Africa: Women's costs associated with second-trimester abortion services in Western Cape Province. *Contraception* 2015;92(4):339-44.
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LANGUAGES

Fluent in Spanish, conversant in French.

EXHIBIT B

IN THE IOWA DISTRICT COURT FOR POLK COUNTY

PLANNED PARENTHOOD OF THE
HEARTLAND, INC., and
DR. JILL MEADOWS. M.D.,

Petitioners,

v.

TERRY E. BRANSTAD ex rel. STATE OF
IOWA and IOWA BOARD OF MEDICINE,

Respondents.

Case No.

AFFIDAVIT OF DANIEL GROSSMAN,
M.D.

1. I am a Professor in the Department of Obstetrics, Gynecology and Reproductive Sciences at the University of California, San Francisco (UCSF) and an obstetrician-gynecologist with over 20 years of clinical experience. I currently provide clinical services, including abortion services, at Zuckerberg San Francisco General Hospital. I am also a Fellow of the American College of Obstetricians and Gynecologists (ACOG), where I previously served as Vice Chair of the Committee on Practice Bulletins for Gynecology. I am currently Vice Chair of the ACOG Committee on Health Care for Underserved Women. I am also a Fellow of the Society of Family Planning and a member of the American Public Health Association (APHA). Additionally, I serve as Director of Advancing New Standards in Reproductive Health (ANSIRH) at UCSF. ANSIRH conducts innovative, rigorous, multidisciplinary research on complex issues related to people's sexual and reproductive lives. I am also a Senior Advisor at Ibis Reproductive Health, a nonprofit research organization. I am a liaison member of the Planned Parenthood National Medical Committee, and between 2012 and 2015 I provided clinical services with Planned Parenthood Northern California (formerly Planned Parenthood Shasta Pacific). My research has

been supported by grants from federal agencies and private foundations. I have published over 130 articles in peer-reviewed journals, and I am a member of the Editorial Board of the journal *Contraception*.

2. I have served as a medical expert in cases challenging medically unnecessary and targeted regulations of abortion providers, including in a case that was decided by the Iowa Supreme Court, *Planned Parenthood of the Heartland, Inc. v. Iowa Board of Medicine*, 865 N.W.2d 252 (Iowa 2015), which struck as unconstitutional rules that restricted the use of telemedicine for medication abortion.

3. I earned a B.S. in Molecular Biophysics and Biochemistry from Yale University and an M.D. from Stanford University School of Medicine. I completed a residency in Obstetrics, Gynecology, and Reproductive Sciences at UCSF.

4. An updated and current version of my curriculum vitae (CV), which sets forth my experience and credentials more fully, is attached to this declaration. My CV contains a complete list of the publications that I have authored or co-authored.

5. I submit this affidavit in support of enjoining enforcement of S.F. 471 (“Act”). I understand that the Act requires patients seeking an abortion to first have an ultrasound, receive certain state-mandated information, and wait at least 72 hours before returning for the procedure. In my opinion, this requirement will not enhance women’s decision-making about abortion and will impose significant obstacles on them. These obstacles, in turn, will delay women, exposing them to unnecessary health risks and other harms, and will likely prevent some women from having an abortion at all.

6. The opinions in this declaration are based on my education, clinical training, experience as a practicing physician over the past twenty-three years, my own medical research, regular review of other medical research in my field, and attendance at professional conferences. The facts in this declaration are based on my personal knowledge.

Access to Legal Abortion is Vital to the Protection of Public Health

7. Women seek abortions for a variety of medical, familial, economic, and personal reasons. 59% of women who seek abortions are mothers who have decided that they cannot parent another child at this time,¹ and 66% plan to have children when they are older (and, for example, financially able to provide necessities for them, and/or in a supportive relationship with a partner so their children will have two parents).² Approximately one-third of women in this country will have an abortion in their lifetime.³

8. It is extraordinarily important for women to have timely access to legal abortion. Women of childbearing age who do not have access to the procedure face significantly increased risks of death and poor health outcomes.

9. While abortion is a safe procedure, the risks from abortion increase as the pregnancy advances. Thus, delaying abortions until later in pregnancy drives up the risk of complications.⁴

¹ Jenna Jerman, Rachel K. Jones, & Tsuyoshi Onda, Guttmacher Inst., *Characteristics of U.S. Abortion Patients in 2014 and Changes Since 2008* (May 2016).

² Stanley Henshaw & Kathryn Kost, *Abortion Patients in 1994-1995: Characteristics and Contraceptive Use*, 28 *Fam. Plan. Persp.* 140, 144 (1996).

³ Rachel K. Jones & Megan L. Kavanaugh, *Changes in Abortion Rates Between 2000 and 2008 and Lifetime Incidence of Abortion*, 117 *Obstetrics & Gynecology* 1358, 1365 (2011).

⁴ Linda A. Bartlett et al., *Risk Factors for Legal Induced Abortion-Related Mortality in the*

10. When legal abortion is unavailable or difficult to access, some women turn to illegal, and unsafe, methods to terminate unwanted pregnancies.⁵ Other women, deprived of access to legal abortion, forego the abortions they would have obtained if they could have and, instead, carry unwanted pregnancies to term. These women are exposed to increased risks of death and major complications from childbirth,⁶ and they and their newborns are at risk of negative health consequences, including reduced use of prenatal care, lower breastfeeding rates, and poor maternal and neonatal outcomes.⁷ Women forced to carry an unwanted pregnancy to term also may find it harder to bring themselves and their family out of poverty.⁸ And women

United States, 103 *Obstetrics & Gynecology* 729, 735 (2004).

⁵ Daniel Grossman et al., *Self-Induction of Abortion Among Women in the United States*, 18 *Reproductive Health Matters* 136 (2010); Daniel Grossman et al., *The Public Health Threat of Anti-Abortion Legislation*, 89 *Contraception* 73, 73 (2014); Tex. Pol’y Eval. Project, Research Brief: Texas Women’s Experiences Attempting Self-Induced Abortion in the Face of Dwindling Options (Nov. 17, 2015), https://liberalarts.utexas.edu/txpep/_files/pdf/TxPEP-Research-Brief-WomensExperiences.pdf.

⁶ Elizabeth G. Raymond & David A. Grimes, *The Comparative Safety of Legal Induced Abortion and Childbirth in the United States*, 119 *Obstetrics & Gynecology* 215, 216 (2012).

⁷ AP Mohllajee et al., *Pregnancy Intention and Its Relationship to Birth and Maternal Outcomes*, 109 *Obstetrics & Gynecology* 678 (2007); Jessica D. Gipson, Michael A. Koenig, & Michelle J. Hinden, *The Effects of Unintended Pregnancy on Infant, Child, and Parental Health: A Review of the Literature*, 39 *Stud. Fam. Plan.* 18 (2008).

⁸ Ushma D. Upadhyay, M. Antonia Biggs & Diana Greene Foster, *The Effect of Abortion on Having and Achieving Aspirational One-Year Plans*, 15 *BMC Women’s Health* 102 (2015); Am. Pub. Health Ass’n (APHA) Annual Meeting and Expo, Session 4150, Invited Panel: The Turnaway Study: Experiences of Women and Children Following Abortion and Denial of Abortion (see especially Diana Foster et al., *Effect of Being Denied a Wanted Abortion on Women’s Socioeconomic Wellbeing* & Diana Foster, Sarah Raifman, & M. Antonia Biggs, *Effect of Abortion Receipt and Denial on Women’s Existing and Subsequent Children*), <https://apha.confex.com/apha/144am/meetingapp.cgi/Session/49007>.

who are victims of partner violence will, in many cases, face increased difficulty escaping that relationship (because of new financial, emotional, and legal ties with that partner).⁹

11. Women in Iowa and elsewhere have limited access to abortion care because of a combination of state restrictions and limited provider availability. Even though advanced practice non-physicians can safely provide medication abortion and early surgical abortion, Iowa law prohibits them from doing so.¹⁰ PPH uses telemedicine to connect their physicians with patients in some outlying areas where they operate clinics, but even with this service, 89% of Iowa counties still lack a provider, and 42% of women live in these counties.¹¹

12. Women seeking an abortion also face significant personal obstacles. Most are below or close to the poverty line and therefore struggle to pull together the resources to take time off from work and arrange transportation.¹² One study from Arizona, before that state's mandatory delay law went into effect, found that "the majority of women seeking abortion care had to forego or delay food, rent, childcare, or another important cost to finance their abortion."¹³

⁹ Sarah C.M. Roberts et al., *Risk of Violence From the Man Involved in the Pregnancy After Receiving or Being Denied an Abortion*, 12 BMC Medicine 144 (2014).

¹⁰ Sharmani Barnard et al., *Doctors or Mid-Level Providers for Abortion*, 7 Cochrane Database Syst. Rev. CD011242 (2015); Iowa Code Ann. § 707.7; *see also* Guttmacher Inst., *Overview of Abortion Laws* (2017), <https://www.guttmacher.org/print/state-policy/explore/overview-abortion-laws>.

¹¹ Rachel K. Jones & Jenna Jerman, *Abortion Incidence and Service Availability In the United States, 2014*. 49 Persp. Sexual & Reproductive Health 17, 23 (2017); *see also* Guttmacher Inst., *State Facts About Abortion: Iowa* (2017), <https://www.guttmacher.org/fact-sheet/state-facts-about-abortion-iowa>.

¹² Jerman, Jones, & Onda, *supra* note 1, at 11 ("75% of abortion patients are low income, having family incomes of less than 200% of the federal poverty level.")

¹³ Deborah Karasek, Sarah C.M. Roberts, & Tracey A. Weitz, *Abortion Patients' Experience and Perception of Waiting Periods: Survey Evidence Before Arizona's Two-visit 24-Hour Mandatory*

13. As noted above, most of these women are already parents (many have multiple children), and therefore need to organize and/or pay for additional childcare when they have health care visits. Many have inflexible work schedules and must work within narrow time constraints to arrange appointments. Still others must conceal these arrangements from abusive or controlling partners or family members.¹⁴

14. It is important to consider new abortion restrictions in this context: access to abortion is important to public health, and it is already limited.

Abortion Methods

15. In the United States, there are generally two methods of performing abortion: medical, by administering certain drugs, or surgical, using various methods depending on the gestational age of the fetus. This former method, which is known as a “medical” or “medication” abortion and which I refer to here as “medication abortion,” is generally only available through 70 days after the first day of the woman’s last menstrual period (LMP) or through ten weeks of pregnancy.

Waiting Period Law, 26 *Women’s Health Issues* 60, 64 (2016).

¹⁴ See ACOG, *Comm. Op. No. 554: Reproductive & Sexual Coercion*, 121 *Obstetrics & Gynecology* 411 (2013); Jerman, Jones, & Onda, *supra* note 1, at 7; Rachel K. Jones, Lawrence B. Finer, & Susheela Singh, Guttmacher Inst., *Characteristics of U.S. Abortion Patients, 2008* at 8 (May 2010), https://www.guttmacher.org/sites/default/files/report_pdf/us-abortion-patients.pdf (61% of abortion patients surveyed already had children, and 34% had two or more); Michael Lupfer & Bohne Goldfarb Silber, *How Patients View Mandatory Waiting Periods for Abortion*, 13 *Fam. Plan. Persps.* 75, 76–77 (1981) (describing problems with delay, including increased expenses and missing additional time at work); Karasek, Roberts, & Weitz, *supra* note 13, at 62–63 (31% reported compromised confidentiality because they had to tell someone they did not want to tell); Sarah E. Baum et al., *Women’s Experience Obtaining Abortion Care in Texas After Implementation of Restrictive Abortion Laws: A Qualitative Study*, 11 *PLoS One* 1 (2016); see also Sanders et al., *infra* note 28.

16. Medication abortion involves safely and effectively terminating a pregnancy non-surgically, through a combination of two prescription drugs: mifepristone and misoprostol. Mifepristone works by blocking the hormone progesterone, which is necessary to maintain pregnancy. Misoprostol then causes the uterus to contract and expel its contents, generally within hours, thereby completing the abortion. Medication abortion requires no anesthesia or sedation.

17. Surgical abortion involves the use of instruments to evacuate the contents of the uterus. Whereas first-trimester surgical abortion is generally a simple procedure lasting five to ten minutes, the method becomes longer and more complex later in pregnancy. Unlike medication abortion, surgical abortion often involves sedation and, in rare cases, involves general anesthesia.

18. A significant percentage of eligible women choose a medication abortion. In fact, in Iowa, the state's vital statistics report for 2015 states that 55% of the abortions performed that year were medication abortion.¹⁵

19. My own research in Iowa has documented that most women who choose a medication abortion have a strong preference for this method.¹⁶

20. Many women prefer medication abortion because they can complete the process in the privacy of their homes, with the company of loved ones, and at a time of their choosing.

¹⁵Iowa Dep't of Pub. Health, Bureau of Health Statistics, 2015 *Vital Statistics of Iowa* 131 (last revised Mar. 7, 2017), https://idph.iowa.gov/Portals/1/userfiles/68/HealthStats/vital_stats_2015-20170307.pdf.

¹⁶Daniel Grossman et al., *Effectiveness and Acceptability of Medical Abortion Provided Through Telemedicine*, 118 *Obstetrics & Gynecology* 296, 300 (Aug. 2011).

21. Some women choose medication abortion because they fear a procedure involving surgical instruments. Victims of rape, or women who have experienced sexual abuse or molestation, may choose medication abortion to feel more in control of the experience and to avoid trauma from having instruments placed in their vagina.

22. For other women, there are medical reasons why medication abortion is better for them than surgical abortion. Some women have medical conditions that make medication abortion a significantly safer option, as it has a lower risk of both complications and failure than surgical abortion. These conditions include anomalies of the reproductive and genital tract, such as large uterine fibroids, female genital mutilation, vaginismus, or cervical stenosis, as well as severe obesity or an extremely flexed uterus, all of which make it difficult to access the pregnancy inside the uterus as part of a surgical abortion.

23. For these reasons, it is important to public health that women seeking an abortion are able to access care as early in their pregnancy as possible, when it is safest and, in many cases, when they have the option of avoiding surgery.

Mandatory Delay Laws Do Not Enhance Decision-Making

24. I treat patients in California, which does not require a delay period before patients can access abortion.

25. Before I initiate an abortion procedure, whether medical or surgical, I screen patients to make sure they are making a voluntary, informed decision. Because of this process, I am very familiar with how patients come to their decision to terminate a pregnancy. In my experience, women take the decision seriously, and they have gone through a meaningful

decision-making process before coming to the clinic. They have carefully considered their own situation, values and goals and consulted important people in their lives.

26. By the time they come to the clinic where I practice, most patients are firm in their decision to terminate their pregnancy. All patients meet with a counselor to review their decision, and some require additional counseling to help with their decision-making. If a patient is still undecided at the end of this process, we advise her to take more time with the decision, and to consult with others if she is comfortable doing so. That is standard practice and the standard of care among abortion providers.

27. Thus, based on my years of clinical experience, I do not believe women need to be forced to wait at least 72 hours after an ultrasound in order to make careful decisions about their pregnancy. To the contrary, such a blanket requirement trivializes the process women have already gone through and the firm decision they have made by the time they come to the clinic.

28. Research on mandatory delay laws in other states also indicates that these laws do not enhance decision-making. To begin with, research shows that, as in my clinical experience, the vast majority of patients are firm in their decision by the time they arrive at the clinic.¹⁷ In fact, one study found that abortion patients were as or more certain of their decision than patients presenting for various other procedures or treatments, such as mastectomy after a breast cancer diagnosis, prenatal testing after infertility, antidepressant use during pregnancy, reconstructive

¹⁷ Mary Gatter et al., *Relationship Between Ultrasound Viewing and Proceeding to Abortion*, 123 *Obstetrics & Gynecology* 81, 82–83 (2014) (finding that, when asked “How do you feel about your decision,” 85.4% of patients responded that they felt confident and clear); Sarah C.M. Roberts et al., *Utah’s 72-Hour Waiting Period for Abortion: Experiences Among a Clinic-Based Sample of Women*, 48 *Persp. on Sexual & Reprod. Health* 179, 182 (2016) (71% of patients reported low levels of decisional conflict).

knee surgery, or prostate cancer treatment options.¹⁸ In another longitudinal study of almost 700 abortion patients, over 99% reported that abortion was the right decision for them when asked at several time points over three years after the procedure.¹⁹

29. I am currently involved in research looking at the effects of Texas's state-mandated ultrasound and 24-hour mandatory delay law. Under Texas law, providers must not only offer to show the patient the ultrasound image and sound, but also describe the ultrasound to her. As part of this research, we surveyed patients at a number of clinics after their initial visit. Although we have not yet published these data in final form, the data indicate that this visit does not affect patient certainty; 92% had medium-high confidence in their decision about the abortion before the ultrasound, and the same percentage had medium-high confidence in their decision after.²⁰

30. Roberts et al. found similar results looking at patients subjected to Utah's 72-hour mandatory delay law. Specifically, the percentage of women who came to their first visit with a low level of uncertainty and nonetheless continued their pregnancy after the delay period (2%) was "in the range of the proportions found changing their mind (1–3%) in settings with no or minimal waiting periods."²¹

¹⁸ Lauren J. Ralph et al., *Measuring Decisional Certainty Among Women Seeking Abortion*, 95 *Contraception* 269, 276 (2017).

¹⁹ Corinne Rocca et al., *Decision Rightness and Emotional Responses to Abortion in the United States: A Longitudinal Study*, 10 *PLoS One* 1, 1 (2015).

²⁰ Tex. Pol'y Evaluation Project, *Impact of Abortion Restrictions in Texas: Research Brief* (Apr. 2013), https://liberalarts.utexas.edu/txpep/_files/pdf/TxPEP-ResearchBrief-ImpactofAbortionRestrictions.pdf.

²¹ Roberts et al., *supra* note 17, at 185.

31. These studies indicate that mandatory delay laws do not dissuade women from seeking an abortion, which is not surprising to me, since as indicated above, they *already* deliberate and consider their options before scheduling the procedure.

32. A study by Gatter et al. looked at decisional certainty among women seeking an abortion at a Los Angeles clinic and also at decision-making about whether to view the ultrasound. In this study, patients were scheduled for an ultrasound and an abortion on the same day, and they were asked beforehand whether or not they wanted to view the ultrasound. A majority of patients chose not to view the ultrasound (which is my experience as well), and 98.8% of women went forward with the abortion after the informed consent process. Among the 85.4% of patients with follow-up data and reporting high decisional certainty, there was no association between the decision to view the ultrasound and the decision to continue a pregnancy (patients opting to view the ultrasound were just as likely to terminate their pregnancy as patients opting not to).²² Among the small minority of patients reporting medium or low decisional certainty (7.4%)²³, there was an association with continuing the pregnancy. However, because the patients were not randomized to whether or not they viewed the ultrasound (it was their choice), the association may have appeared because, within the broad category of patients with “medium or low decisional certainty,” women who were more inclined to continue their pregnancy (regardless of whether or not they viewed the ultrasound) may have been more likely to choose to view the ultrasound.

²² Gatter et al., *supra* note 17, at 83–84.

²³ *Id.*

33. In short, the overwhelming majority of patients arrive at their appointment certain in their decision without a state-mandated delay period. Providers are trained to screen for uncertainty, and the standard of care is not to proceed with an abortion if the patient is uncertain but rather to advise her to take more time with her decision. This is the best approach, clinically, to ensure that women who are firmly decided receive prompt care, and women who are not receive the support they need to reach a firm decision.

34. An additional problem with the Act is that it requires providers at the initial visit to inform patients of “indicators” and “contra-indicators.” These are not medical terms, and I have never seen them before. In my opinion, providers will not know what information they need to give in order to comply with this requirement.

Mandatory Delays Burden Patients

35. Research also indicates that requiring patients to make an additional trip to the clinic and then wait a specified time period before having an abortion makes it harder for them to access this care. The Act is a particularly burdensome version of this requirement; if it stays in effect, Iowa will be one of only three states (joined by Missouri and South Dakota) that requires an in-person visit and 72-hour wait.²⁴

36. To begin with, patients overwhelmingly do not want these requirements. In one study surveying 379 Arizona patients, 88% of patients expressed a preference for being

²⁴ Guttmacher Institute, *Counseling and Waiting Periods for Abortion* (Apr. 1, 2017), <https://www.guttmacher.org/state-policy/explore/counseling-and-waiting-periods-abortion>. This chart lists Utah in this category. However, Utah does not require an ultrasound or an in-person meeting for the first encounter (so long as the patient and provider meet “face-to-face,” which includes via teleconference from the patient’s home), so Utah does not in fact require two trips.

counseled and having an abortion on the same day, with only 12% preferring to have these visits on different days.²⁵ The 88% who preferred same-day care were significantly more likely than the other group to say that a mandatory delay would prevent their support person from accompanying them and also that they would travel out of state to avoid such a requirement.²⁶

37. One recent study looking at Utah's 72-hour mandatory delay law found that the requirement imposed substantial burdens on patients. For example, patients were delayed an average of eight days, generally due to logistical reasons (as opposed to needing more time to come to a final decision).²⁷ As set forth above, this degree of delay prevents some women from having a medication abortion and exposes all women to the increased medical risk associated with delay. This finding has particular significance for Iowa, where medication abortion is available in eight towns and cities, while surgical abortion is only available in two out of the eight.

38. Notably, a small number of patients in the Utah study were still seeking abortions three weeks after their initial visit, one patient had been pushed past her provider's gestational age limit, and at least one patient had been pushed past the point in her pregnancy when she felt comfortable terminating.²⁸

²⁵ Karasek, Roberts, & Weitz, *supra* note 13, at 64.

²⁶ *Id.*

²⁷ Roberts et al., *supra* note 17, at 184.

²⁸ *Id.* at 179, 183.

39. This study found other burdens as well. Patients faced increased costs and diminished confidentiality. Women with pregnancy-related illness or symptoms had to endure these for an additional period.²⁹

40. Women also reported significant stress associated with the delay along with a feeling of powerlessness and fear that they would lose desired medical options (such as non-surgical abortion).³⁰ That is consistent with my decades of clinical experience: patients are often anxious to terminate their pregnancy for various reasons. Some are experiencing debilitating pregnancy symptoms, such as intense nausea, or have a condition that may be exacerbated by pregnancy, such as hypertension. Some need to conceal the pregnancy and abortion from a coercive or abusive partner or family member, or from others in their community. Some are survivors of rape, and are particularly anxious to terminate their pregnancy because it is a constant, invasive reminder of that traumatic experience.³¹ And some who are certain about their decision are nonetheless anxious about the abortion process itself; this can be especially acute for women who have a history of physical or sexual abuse or a past traumatic medical experience.

41. The Utah findings also are consistent with my current research in Texas, where 31% of women reported that the mandatory delay had a negative effect on their emotional well-

²⁹ *Id.* at 183–84; *see also* Jessica N. Sanders et al., *The Longest Wait: Examining the Impact of Utah's 72-Hour Waiting Period for Abortion*, 26 *Women's Health Issues* 483, 485 (2016) (62% of patients reporting negative effects from the mandatory delay, including lost wages, transportation costs, and having to disclose their situation to others they did not want to involve).

³⁰ Roberts et al., *supra* note 17, at 184.

³¹ In addition, the many logistical difficulties of arranging a separate visit to the provider, including taking time off from work and/or school, arranging child-care, and making the necessary travel arrangements, are likely to be even more difficult for a woman following a traumatic event such as a rape.

being, and 23% found it difficult to get to the clinic for the consultation visit.³² In a multivariable analysis, women below federal poverty guidelines were significantly more likely to report difficulty getting to the clinic. Patient costs associated with that extra, medically unnecessary visit averaged \$141.³³

42. These recent data confirm earlier research finding that mandatory delay laws severely burden women seeking an abortion. Studies of Mississippi's two-trip, 24-hour mandatory delay law found that, after that law went into effect, not only did abortion rates decline in that state, but the incidence of second-trimester abortion increased significantly (without increasing in neighboring states without such a requirement), as did the number of women traveling out of state to access abortion.³⁴ A 2009 review of that and other research concluded "that mandatory counseling and waiting period laws that require an additional in-person visit before the procedure likely increase both the personal and the financial costs of obtaining an abortion, thereby preventing some women from accessing abortion services," and also that "[i]f neighboring states have similar laws, so that access to an abortion provider who does not require this strict form of waiting period requires extensive travel, then such laws are

³² *Impact of Abortion Restrictions in Texas: Research Brief*, *supra* note 20, at 1; Daniel Grossman et al., *Impact of Restrictive Abortion Law on Women in Texas*, 88 *Contraception* 434 (2013) (abstract).

³³ *Id.*

³⁴ Theodore Joyce, Stanley K. Henshaw, & Julia DeClerque Skatrud, *The Impact of Mississippi's Mandatory Delay Law on Abortions and Births*, 278 *J. Am. Med. Ass'n* 653 (1997); Ted Joyce & Robert Kaestner, *The Impact of Mississippi's Mandatory Delay Law on Timing of Abortions*, 32 *Fam. Plan. Persp.* 4 (2000).

likely to lower abortion rates, delay women who are seeking abortions and result in a higher proportion of second-trimester abortions.”³⁵

43. In light of this evidence, the American College of Obstetricians and Gynecologists, the leading professional medical group devoted to the care of women, has recognized that multi-trip mandatory delay laws impose burdens on women and reduce their access to care, and that these laws therefore are “harmful to women’s health.”³⁶

44. In addition to these concerns, I am particularly worried about the impact of the two-trip, 72-hour mandatory delay on Iowa women in rural and outlying areas. Until PPH began using telemedicine to provide medication abortion in these areas in 2008, women had to travel far distances—in some cases hundreds of miles—to reach a clinic in Des Moines or Iowa City with a physician present. Because of telemedicine, these women now have far more access, but only in the first 10 weeks of their pregnancy. Because women often do not become aware that they are pregnant until about 5 weeks LMP or later, many women struggle to access care within that 10-week period. An extra trip to the clinic and a 72-hour mandatory delay (which in practice often amounts to a delay of more than a week) will push many of these women past that window; not only will they lose the option of a non-surgical procedure, but they will have to travel much farther to receive care.³⁷

³⁵ Theodore J. Joyce et al., Guttmacher Inst., *The Impact of State Mandatory Counseling and Waiting Periods on Abortion* at 15 (2009), <https://www.guttmacher.org/report/impact-state-mandatory-counseling-and-waiting-period-laws-abortion-literature-review>.

³⁶ ACOG, *Comm. Op. No. 613: Increasing Access to Abortion* (Nov. 2014, reaffirmed 2017), <http://www.acog.org/-/media/Committee-Opinions/Committee-on-Health-Care-for-Underserved-Women/co613.pdf?dmc=1&ts=20170412T1753496343>.

³⁷ Roberts et al., *supra* note 17, at 184 (“Women who had an abortion waited about eight days between the information visit and the abortion.”)

45. Research indicates that these distances are an additional barrier to care, pushing women further into their pregnancy, when abortion is less safe and more expensive. A study of abortion in Washington state found that rural women who had to travel more than 75 miles to obtain an abortion were two to three times more likely than women travelling less than 75 miles to terminate after 12 weeks, and that after abortion became less available in Washington, “the proportion of rural women having their abortions at later than 18 weeks more than doubled . . . growing from 2% to 5%,” and the proportion of rural women having abortions after 18 weeks was “significantly higher than that among their urban counterparts.”³⁸ In our research in Texas, we found that when clinics closed, there was a significant association between increasing distance to the nearest clinic and decline in the number of abortions, demonstrating how geographic barriers prevent women from obtaining care.³⁹

46. For some women, the delay required by the Act will push them entirely out of the window in which they can access an abortion in Iowa at all (particularly given the new 20-week ban Iowa has enacted), forcing them to travel out of state to have an abortion, if they have the resources to do so. For others, it will force them to carry to term or to take potentially dangerous measures to self-abort.

47. I understand that the Act contains no exceptions other than for a medical emergency, which I understand is defined elsewhere as a physical condition that either poses a

³⁸ Sharon A. Dobie et al., *Abortion Services in Rural Washington State, 1983-1984 to 1993-1994: Availability and Outcomes*, 31 Fam. Plan. Persp. 241, 243 (1999); see also Joyce, Henshaw, & Skatrud, *supra* note 34.

³⁹ Daniel Grossman et al., *Change in Distance to Nearest Facility and Abortion in Texas, 2012 to 2014*, 317 J. Am. Med. Ass’n 437 (2017).



threat to the patient’s life or “will create a serious risk of substantial and irreversible impairment of a major bodily function of the pregnant woman.” Iowa Code § 146B.1(6) (2017). In my opinion and based on my experience, this exception does not begin to encompass the situations in which a 72-hour mandatory delay, in combination with a 2-trip requirement, would pose a particularly extreme hardship for a woman seeking an abortion. As noted above, some women need immediate care without unnecessary additional trips to the clinic, either because they are sick (but not in such a way that a major bodily function is about to be irreversibly impaired), or because their pregnancy is the result of rape and is itself traumatic, or because they are in danger of abuse if a partner or family member discovers their pregnancy.

48. I have also treated patients who made the painful decision to terminate a wanted pregnancy after discovering a serious fetal anomaly, including an anomaly that would have made the fetus unable to survive to term or after birth. I understand the law would require these patients not only to make an extra trip and then wait at least three days, but also to be counseled about “the options relative to pregnancy, including carrying to term.” Iowa Code § 146A.1(1)(d)(a). This requirement will cause gratuitous pain to patients who are already grieving. It goes against the ethic of compassionate care that is central to the medical profession.

49. For all of the foregoing reasons, the Act will not improve women’s decision-making about abortion, and will significantly burden them, diminish their access to care, and expose them to increased medical risk.

Signed this 26th day of April, 2017.

District of Columbia: SS

Subscribed and sworn to before me, in my presence, this 26th day of April, 2017

Stacey R. Cummings

Stacey R. Cummings, Notary Public, D.C.

My commission expires July 14, 2021.

Daniel Grossman
Daniel Grossman, MD

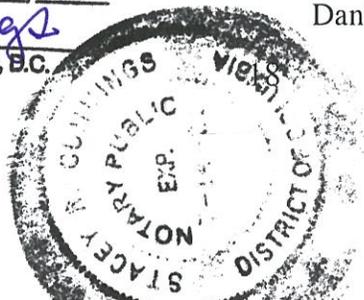


EXHIBIT A

April 1, 2017

DANIEL A. GROSSMAN, M. D., F. A. C. O. G.
 Advancing New Standards in Reproductive Health, UCSF
 1330 Broadway, Suite 1100
 Oakland, CA 94612

Current position

Professor, Department of Obstetrics, Gynecology and Reproductive Sciences at the University of California, San Francisco
 Director, Advancing New Standards in Reproductive Health (ANSIRH)

Education

Sept. 1985-May 1989	Yale University-Molecular Biophysics and Biochemistry	B.S., 1989
Sept. 1989-June 1994	Stanford University School of Medicine	M.D., 1994
June 1994-June 1998	Resident and Administrative Chief Resident, Obstetrics, Gynecology and Reproductive Sciences, University of California, San Francisco	

Licenses/Certification

1996-Present	California medical licensure (A60282)
2001-Present	Board-certified, American Board of Obstetrics and Gynecology

Principal positions held

Aug. 1998-Feb. 2003	Physician, St. Luke's Women's Center, San Francisco, CA
Aug. 2005-2012	
May 2003-Aug. 2005	Health Specialist, The Population Council Regional Office for Latin America and the Caribbean, Mexico City
Aug. 2005-Aug. 2015	Senior Associate (through June 2012), Vice President for Research (starting July 2012), Ibis Reproductive Health
Sept. 2015-Present	Professor, Department of Obstetrics, Gynecology and Reproductive Sciences at the University of California, San Francisco
Sept. 2015-Present	Director, Advancing New Standards in Reproductive Health (ANSIRH)

Other positions held concurrently

Aug. 1998-Feb. 2003	Director of Medical Student Education, Department of Obstetrics and Gynecology, St. Luke's Hospital
Aug. 1998-Feb. 2003	Vice Chair, Department of Obstetrics and Gynecology, St. Luke's Hospital
Aug. 1998-2015	Assistant Clinical Professor, Bixby Center for Global Reproductive Health, Department of Obstetrics, Gynecology and Reproductive Sciences at the University of California, San Francisco
2012-2015	Contract physician, Planned Parenthood Shasta Pacific
Aug. 2015-Present	Senior Advisor, Ibis Reproductive Health

Honors and awards

- 1988 Howard W. Hilgendorf Jr. Fellowship, Yale University
- 1988 Robin Berlin Memorial Prize, Yale University
- 1989 Magna cum laude, Yale University
- 1990 Medical Scholars Award, Stanford University
- 1990 Peter Emge Traveling Fellowship, Stanford University
- 1991-1992 Foreign Language and Area Studies Fellowship, Stanford University
- 1994 Dean's Award for Research in Infectious Diseases, Stanford University
- 2007 Ortho Outstanding Researcher Award, Association of Reproductive Health Professionals
- 2009 Visionary Partner Award, Pacific Institute for Women's Health
- 2010 Scientific Paper Award, National Abortion Federation
- 2013 Gerbode Professional Development Fellowship
- 2013 Abstract selected as one of Top 4 Oral Abstracts at North American Forum on Family Planning
- 2013 Felicia Stewart Advocacy Award from the Population, Reproductive and Sexual Health Section of the American Public Health Association

Key words/areas of interest

Abortion, medication abortion, second-trimester abortion, contraception, over-the-counter access to oral contraception, integration of family planning into HIV care and treatment, Latina reproductive health in the US, misoprostol and self-induction of abortion, Mexico, Peru, Bolivia, Dominican Republic, South Africa, Kenya

PROFESSIONAL ACTIVITIES**PROFESSIONAL ORGANIZATIONS**Memberships

- 2000-Present: Fellow, American College of Obstetrics and Gynecology (ACOG)
- 2006-Present: Fellow, Society of Family Planning
- 2004-Present: American Public Health Association
- 2013-2015: American Medical Association
- 2004-2011: Association of Reproductive Health Professionals
- 2004-2016: International Consortium for Medical Abortion
- 2006-Present: Liaison Member, Planned Parenthood Federation of America National Medical Committee
- 2005-Present: Consorcio Latinoamericano contra el Aborto Inseguro (Latin American Consortium against Unsafe Abortion)
- 2004-Present: Working Group on Oral Contraceptives Over-the-Counter

Service to professional organizations

- 2008-Present: Society of Family Planning, reviewer of grant proposals, abstract reviewer for annual meeting
- 2007-Present: American Public Health Association, Governing Councilor (2007-2009, 2010-2014), Section Secretary (2008-2009), abstract reviewer for annual meeting
- 2005-2012: Consorcio Latinoamericano contra el Aborto Inseguro, member of Coordinating Committee

- 2006-Present: Working Group on Oral Contraceptives Over-the-Counter, working group coordinator and member of steering committee
- 2010-2013: Member, Committee on Practice Bulletins-Gynecology, ACOG
- 2014-Present: Member, Committee on Health Care for Underserved Women, ACOG (Vice Chair of Committee starting May 2016)
- 2010-2016: Steering Committee member, International Consortium for Medical Abortion
- 2016 External advisor for Marie Stopes International research strategy meeting, March 23-24, 2016, London, UK

SERVICE TO PROFESSIONAL PUBLICATIONS

- 2013-Present Editorial Board, Contraception
- 2004-Present Ad hoc reviewer for Obstetrics and Gynecology (10 papers in past 5 years), American Journal of Public Health (4 papers in past 3 years), Reproductive Health Matters (6 articles in past 4 years), Expert Review of Obstetrics and Gynecology (3 review in past year), and Women's Health Issues (4 articles in past 2 years), Lancet (2 reviews in past year)

INVITED PRESENTATIONS (Selected)

International

- Second-trimester abortion. Optimizing the Potential for Medication in Pregnancy Termination in South America Conference, Lima, Peru, 2014 (invited talk).
- Participation in panel at Harvard University seminar: Politics, Public Health, and Abortion: Examining the Changing Legal Environment in Mexico and Central America, Cambridge, MA, 2014 (invited talk).
- Evidence for removing the prescription barrier to hormonal contraception. Annual meeting of the Asociacion Française pour la Contraception, Paris, France, March 2015.
- Presentations on medical abortion and second-trimester abortion, REDAAS (Red de Acceso al Aborto Seguro) meeting, Buenos Aires, Argentina, May 2015 (invited talk).
- Panel participant in panel "Gestational limits for abortion: what purpose do they serve?" and presentations on adolescent pregnancy, telemedicine provision early medical abortion, and second-trimester abortion. Fifth Research Meeting on Unintended Pregnancy and Unsafe Abortion, Mexico City, September 2015 (invited talks).
- Moving oral contraceptives over the counter as a strategy to reduce unintended pregnancy. The Human Right to Family Planning Conference, Seattle, WA, October 2015 (invited talk).
- Over-the-counter access to hormonal contraception- what are the risks and benefits?, and Introduction of the mifepristone regimen for second-trimester medical abortion in South Africa. XXI FIGO World Congress of Gynecology and Obstetrics, Vancouver, Canada, October 2015 (oral presentations).
- Second-trimester abortion. Presentation at the First Latin American Meeting on Public Sector Providers of Legal Abortion, Buenos Aires, Argentina, August 2016 (invited talk).

National

- Participation in panel entitled Abortion Scholarship: An Interdisciplinary Conversation, at UC Berkeley Symposium Speech, Symbols, and Substantial Obstacles: The Doing and "Undue"ing of Abortion Law since Casey, Berkeley, 2013 (invited talk).

- Impact of restrictive abortion law on women in Texas. North American Forum on Family Planning, Seattle, 2013 (oral presentation).
- Randomized Trial of Misoprostol versus Laminaria before Dilation and Evacuation in South Africa. Annual meeting of the National Abortion Federation, San Francisco, 2014 (oral presentation).
- Introduction of the mifepristone regimen for second-trimester medical abortion in South Africa. Annual meeting of the National Abortion Federation, Baltimore, April 2015 (oral presentation).
- Knowledge, opinion and experience related to abortion self-induction in Texas (oral abstract), and participant in panel “Addressing the global need for safe abortion after the first trimester.” North American Forum on Family Planning, Chicago, November 2015 (oral presentations).
- Participant in panel “Addressing the Challenges Facing Women's Reproductive Health Care,” Academy Health National Health Policy Conference, Washington, DC, February 2, 2016 (invited talk).
- Panel presentations entitled “Medical abortion restrictions: From label laws to abortion reversal,” “Texas: Ground Zero in the Abortion Wars” and “Stolen Lives: Impact of early adolescent pregnancy on all aspects of health,” Annual meeting of the National Abortion Federation, Austin, Texas, April 2016.
- Panel presentations entitled “Evaluating Reproductive Health Policy at the State Level” and “Translating research into policy: Contributing data to the public debate when it matters most,” North American Forum on Family Planning, Denver, November 2016.
- Panel presentation entitled “Abortion Outside the Clinic: Imagining Safe and Legal Abortion in a post-Roe World,” Physicians for Reproductive Health Grand Rounds, New York University School of Law, New York, March 2017.

Regional and other invited presentations

- Impact of family planning cuts and abortion restrictions in Texas. Grand rounds presentation, Department of Obstetrics, Gynecology and Reproductive Sciences, UCSF, 2013.
- Improving access to early medical abortion through the use of telemedicine. Office of Population Research seminar, Princeton University, 2014 (invited talk).
- Impact of family planning cuts and abortion restrictions in Texas. Grand rounds presentation, Department of Obstetrics and Gynecology, Emory University School of Medicine, Atlanta, Georgia, February 2015.
- Impact of family planning cuts and abortion restrictions in Texas. Grand rounds presentation, Department of Obstetrics and Gynecology, Baylor University School of Medicine, Houston, Texas, April 2015.
- The causes and consequences of unintended pregnancy among women in the US military. San Francisco General Hospital grand rounds, September 2015.
- Impact of family planning cuts and abortion restrictions in Texas. Grand rounds presentation, Department of Obstetrics and Gynecology, University of New Mexico School of Medicine, Albuquerque, New Mexico, October 2015.
- Using evidence and advocacy to improve second-trimester abortion care in South Africa. Grand rounds presentation, Department of Obstetrics, Gynecology and Reproductive Sciences, UCSF, December 2015.
- UCSF/UCH Consortium Annual Supreme Court Review, panel speaker on Whole Woman's Health v. Hellerstedt, San Francisco, July 2016.

American Gynecological Club meeting, presentation on Reproductive Health in Texas and panel participant, San Francisco, September 2016.
 Speaking science to the Court: the experience of experts in Whole Woman’s Health v. Hellerstedt, panel participant, UC Hastings, San Francisco, October 2016.
 How data made the difference in the Texas abortion case before the US Supreme Court. Grand rounds presentation, Department of Obstetrics, Gynecology and Reproductive Sciences, UCSF, November 2016.
 Research That Gets Results: A Symposium on Science-Driven Policy Change, panel participant, UCSF, March 2017.

OTHER PROFESSIONAL SERVICE

2007 Member of the International Planned Parenthood Federation Safe Abortion Action Fund Technical Review Panel
 2007-2009 Steering committee member of the California Microbicide Initiative
 2002-2004 Member, Medical Development Team, Marie Stopes International (London)
 2013-Present: Reviewer of fellows’ research proposals for the Fellowship in Family Planning
 2013-2015 Member of working group on Guidelines for Task Shifting in Abortion Provision convened by World Health Organization
 2014 Discovery working group member, Preterm Birth Initiative (PTBi), UCSF
 2013-Present Board member and Secretary (2014-2016), NARAL Pro-Choice America Foundation
 2014-Present Board member, NAF

TEACHING

FORMAL SCHEDULED CLASSES:

Qtr	Academic Yr	Institution Course Title	Teaching Contribution	Class Size
W	2008-09	Harvard School of Public Health; GHP502 International reproductive health issues: Moving from theory to practice	Lecturer; 2 lectures	22
W	2009-10	Harvard School of Public Health; GHP502 International reproductive health issues: Moving from theory to practice	Lecturer; 1 lecture	17
F	2014-15	UCSF Coursera course; Abortion: Quality Care and Public Health Implications	Lecturer; 4 lectures	6,000+ (online)
F	2015-16	University of Texas at Austin; Sociology--Reproductive Health and Population in Texas; SS 301 Honors Social Science	Lecturer; 1 lecture	20
S	2016-17	UC Berkeley School of Law; 224.6 - Selected Topics in Reproductive Justice	Lecturer; 1 lecture	12

POSTGRADUATE and OTHER COURSES

Guest lecturer in “Qualitative Research Methods in Public Health,” CUNY School of Public Health, September 2011

Women’s health from a global perspective. Presentation at Obstetrics and Gynecology Update: What Does the Evidence Tell Us? UCSF CME course, San Francisco, 2007.

TEACHING AIDS

Contributed to the development of a training slide set on medical abortion in Spanish, 2004
Developed pocket cards on emergency contraception for use by community health workers in the State of Mexico, 2005

Reviewed and provided input on a manual on gynecologic uses of misoprostol published by the Latin American Federation of Obstetric and Gynecologic Societies (FLASOG), 2005

Grossman D. Medical methods for first trimester abortion: RHL commentary (last revised: 3 September 2004). The WHO Reproductive Health Library, No 8, Update Software Ltd, Oxford, 2005. Excerpt available at:

<http://www.rhlibrary.com/Commentaries/htm/Dgcom.htm>.

Grossman D. Medical methods for first trimester abortion: RHL practical aspects (last revised: 3 September 2004). The WHO Reproductive Health Library, No 8, Update Software Ltd, Oxford, 2005.

RESEARCH AND CREATIVE ACTIVITIES**PEER REVIEWED PUBLICATIONS**

1. Laudon M, Grossman DA, Ben-Jonathan N. Prolactin-releasing factor: cellular origin in the intermediate lobe of the pituitary. *Endocrinology* 1990; 126(6):3185-92.
2. Grossman DA, Witham ND, Burr DH, Lesmana M, Rubin FA, Schoolnik GK, Parsonnet J. Flagellar serotypes of *Salmonella typhi* in Indonesia: relationships among motility, invasiveness, and clinical illness. *Journal of Infectious Diseases* 1995; 171(1):212-6.
3. MacIsaac L, Grossman D, Balistreri E, Darney P. A randomized controlled trial of laminaria, oral misoprostol, and vaginal misoprostol before abortion. *Obstetrics and Gynecology* 1999; 93(5, pt.1):766-770.
4. Grossman D, Ellertson C, Grimes DA, Walker D. Routine follow-up visits after first-trimester induced abortion. *Obstetrics and Gynecology* 2004; 103(4):738-45.
5. Lafaurie MM, Grossman D, Troncoso E, Billings DL, Chávez S. Women’s perspectives on medical abortion in Mexico, Colombia, Ecuador and Peru: a qualitative study. *Reproductive Health Matters* 2005;13(26):75-83.
6. Grossman D, Ellertson C, Abuabara K, Blanchard K. Barriers to contraceptive use present in product labeling and practice guidelines. *American Journal Public Health* 2006;96(5):791-9.
7. Yeatman SE, Potter JE, Grossman DA. Over-the-counter access, changing WHO guidelines, and the prevalence of contraindicated oral contraceptive use in Mexico. *Studies in Family Planning* 2006; 37(3):197–204.

8. Pace L, Grossman D, Chavez S, Tavara L, Lara D, Guerrero R. Legal Abortion in Peru: Knowledge, attitudes and practices among a group of physician leaders. *Gaceta Medica de Mexico* 2006; 142(Supplement 2):91-5.
9. Lara D, Abuabara K, Grossman D, Diaz C. Pharmacy provision of medical abortifacients in a Latin American city. *Contraception* 2006;74(5):394-9.
10. Tinajeros F, Grossman D, Richmond K, Steele M, Garcia SG, Zegarra L, Revollo R. Diagnostic accuracy of a point-of-care syphilis test when used among pregnant women in Bolivia. *Sexually Transmitted Infections* 2006;82 Suppl 5:v17-21.
11. Clark W, Gold M, Grossman D, Winikoff B. Can mifepristone medical abortion be simplified? A review of the evidence and questions for future research. *Contraception* 2007;75:245-50.
12. Garcia SG, Tinajeros F, Revollo R, Yam EA, Richmond K, Díaz-Olavarrieta C, Grossman D. Demonstrating public health at work: A demonstration project of congenital syphilis prevention efforts in Bolivia. *Sexually Transmitted Diseases* 2007;34(7):S37-S41.
13. Díaz-Olavarrieta C, García SG, Feldman BS, Polis AM, Revollo R, Tinajeros F, Grossman D. Maternal syphilis and intimate partner violence in Bolivia: a gender-based analysis of implications for partner notification and universal screening. *Sex Transm Dis* 2007;34(7 Suppl):S42-6.
14. Harper CC, Blanchard K, Grossman D, Henderson J, Darney P. Reducing Maternal Mortality due to Abortion: Potential Impact of Misoprostol in Low-resource Settings. *International Journal of Gynecology and Obstetrics* 2007;98:66-9.
15. Grossman D, Berdichevsky K, Larrea F, Beltran J. Accuracy of a semi-quantitative urine pregnancy test compared to serum beta-hCG measurement: a possible tool to rule-out ongoing pregnancy after medication abortion. *Contraception* 2007;76(2):101-4.
16. Lara D, van Dijk M, Garcia S, Grossman D. La introducción de la anticoncepción de emergencia en la norma oficial mexicana de planificación familiar (The introduction of emergency contraception into the official Mexican family planning norms). *Gaceta Médica de México* 2007;143(6): 483-7.
17. Grossman D, Blanchard K, Blumenthal P. Complications after second trimester surgical and medical abortion. *Reproductive Health Matters* 2008;16(31 Supplement):173-82.
18. Grossman D, Fernandez L, Hopkins K, Amastae J, Garcia SG, Potter JE. Accuracy of self-screening for contraindications to combined oral contraceptive use. *Obstetrics and Gynecology* 2008; 112(3):572-8.
19. Grossman D. Should the oral contraceptive pill be available without prescription? Yes. *British Medical Journal* 2008;337:a3044.
20. Levin C, Grossman D, Berdichevsky K, Diaz C, Aracena B, Garcia S, Goodyear L. Exploring the economic consequences of unsafe abortion: implications for the costs of service provision in Mexico City. *Reproductive Health Matters* 2009;17(33):120–132.
21. Hu D, Grossman D, Levin C, Blanchard K, Goldie SJ. Cost-Effectiveness Analysis of Alternative First-Trimester Pregnancy Termination Strategies in Mexico City. *BJOG* 2009;116:768–779.

22. Távara-Orozco L, Chávez S, Grossman D, Lara D, Blandón MM. Disponibilidad y uso obstétrico del misoprostol en los países de América [Availability and obstetric use of misoprostol in Latin American countries]. *Revista Peruana de Ginecología y Obstetricia* 2009;54:253-263.
23. Lara DK, Grossman D, Muñoz J, Rosario S, Gomez B, Garcia SG. Acceptability and use of female condom and diaphragm among sex workers in Dominican Republic: Results from a prospective study. *AIDS Education and Prevention* 2009;21(6):538-551.
24. Grossman D, Fernandez L, Hopkins K, Amastae J, Potter JE. Perceptions of the safety of oral contraceptives among a predominantly Latina population in Texas. *Contraception* 2010;81(3):254-60. (NIHMS155993)
25. Potter JE, White K, Hopkins K, Amastae J, Grossman D. Clinic versus Over-the-Counter Access to Oral Contraception: Choices Women Make in El Paso, Texas. *American Journal of Public Health* 2010;100(6):1130-6. (NIHMS 221745)
26. Phillips K, Grossman D, Weitz T, Trussell J. Bringing evidence to the debate on abortion coverage in health reform legislation: findings from a national survey in the United States. *Contraception* 2010;82(2):129-30.
27. Hu D, Grossman D, Levin C, Blanchard K, Adanu R, Goldie SJ. Cost-Effectiveness Analysis of Unsafe Abortion and Alternative First-Trimester Pregnancy Termination Strategies in Nigeria and Ghana. *African Journal of Reproductive Health* 2010;14(2):85-103.
28. Grossman D, Holt K, Peña M, Veatch M, Gold M, Winikoff B, Blanchard K. Self-induction of abortion among women in the United States. *Reproductive Health Matters* 2010;18(36):136–146.
29. Grossman D, Grindlay K. Alternatives to ultrasound for follow-up after medication abortion: A systematic review. *Contraception* 2011;83(6):504-10.
30. Liang S-Y, Grossman D, Phillips K. Women's out-of-pocket expenditures and dispensing patterns for oral contraceptive pills between 1996 and 2006. *Contraception* 2011;83(6):528-36.
31. Blanchard K, Bostrom A, Montgomery E, van der Straten A, Lince N, de Bruyn G, Grossman D, Chipato T, Ranjee G, Padian N. Contraception use and effectiveness among women in a trial of the diaphragm for HIV prevention. *Contraception* 2011;83(6):556-63.
32. Grossman D, White K, Hopkins K, Amastae J, Shedlin M, Potter JE. Contraindications to Combined Oral Contraceptives Among Over-the-Counter versus Prescription Users. *Obstet Gynecol* 2011;117(3):558–65.
33. Potter JE, McKinnon S, Hopkins K, Amastae J, Shedlin MG, Powers DA, Grossman D. Continuation of prescribed compared with over-the-counter oral contraceptives. *Obstet Gynecol* 2011;117(3):551–7.
34. Grindlay K, Yanow S, Jelinska K, Gomperts R, Grossman D. Abortion restrictions in the US military: Voices from women deployed overseas. *Women's Health Issues* 2011;21(4):259-64.
35. Grossman D, Grindlay K, Buchacker T, Lane K, Blanchard K. Effectiveness and Acceptability of Medical Abortion Provided Through Telemedicine. *Obstetrics and Gynecology* 2011;118(2 Pt 1):296-303.
36. Holt K, Grindlay K, Taskier M, Grossman D. Unintended pregnancy and contraceptive use among women in the US military: A systematic literature review. *Military Medicine* 2011;176(9):1056-64.

37. Harris LH, Grossman D. Confronting the challenge of unsafe second-trimester abortion. *Int J Gynaecol Obstet* 2011;115(1):77-9.
38. Grossman D, Constant D, Lince N, Alblas M, Blanchard K, Harries J. Surgical and medical second trimester abortion in South Africa: a cross-sectional study. *BMC Health Serv Res.* 2011;11(1):224.
39. Harries J, Lince N, Constant C, Hargey A, Grossman D. The challenges of offering public second trimester abortion services in South Africa: Health care providers' perspectives. *Journal of Biosocial Science* 2011;17:1-12.
40. Dennis A, Grossman D. Barriers to Contraception and Interest in Over-the-Counter Access Among Low-Income Women: A Qualitative Study. *Perspect Sex Reprod Health* 2012;44(2):84-91.
41. Foster DG, Higgins J, Karasek D, Ma S, Grossman D. Attitudes toward unprotected intercourse and risk of pregnancy among women seeking abortion. *Women's Health Issues* 2012;22(2):e149-55.
42. Foster DG, Karasek D, Grossman D, Darney P, Schwarz EB. Interest in using intrauterine contraception when the option of self-removal is provided. *Contraception* 2012;85(3):257-62.
43. White K, Potter JE, Hopkins K, Fernández L, Amastae J, Grossman D. Contraindications To Progestin-Only Oral Contraceptive Pills Among Reproductive Aged Women. *Contraception* 2012;86(3):199-203.
44. Harrington EK, Newmann SJ, Onono M, Schwartz KD, Bukusi EA, Cohen C, Grossman D. Fertility intentions and interest in integrated family planning services among HIV-infected women in Nyanza Province, Kenya: a qualitative study. *Infectious Diseases in Obstetrics and Gynecology* 2012;2012, Article ID 809682. doi:10.1155/2012/809682.
45. Lessard L, Karasek D, Ma S, Darney P, Deardorff J, Lahiff M, Grossman D, Foster DG. Contraceptive features preferred by women at high risk of unintended pregnancy. *Perspectives on Sexual and Reproductive Health* 2012;44(3):194-200.
46. Grossman D, Garcia S, Kingston J, Schweikert S. Mexican women seeking safe abortion services in San Diego, California. *Health Care Women Int* 2012;33(11):1060-9.
47. Hopkins K, Grossman D, White K, Amastae J, Potter JE. Reproductive health preventive screening among clinic vs. over-the-counter oral contraceptive users. *Contraception* 2012;86(4):376-82.
48. Potter JE, White K, Hopkins K, McKinnon S, Shedlin MG, Amastae J, Grossman D. Frustrated Demand for Sterilization among Low-Income Latinas in El Paso, Texas. *Perspectives on Sexual and Reproductive Health* 2012;44(4):228-235.
49. White K, Grossman D, Hopkins K, Potter JE. Cutting family planning in Texas. *N Engl J Med* 2012;367(13):1179-81.
50. Liang S-Y, Grossman D, Phillips K. User characteristics and out-of-pocket expenditures for progestin-only versus combined oral contraceptives. *Contraception* 2012;86(6):666-72.
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LANGUAGES

Fluent in Spanish, conversant in French.

EXHIBIT C

PLANNED PARENTHOOD OF THE HEARTLAND, INC. and JILL MEADOWS, M.D.,
 Petitioners,
 vs.
 KIMBERLY REYNOLDS ex rel. STATE OF IOWA and IOWA BOARD OF MEDICINE,
 Respondents.

LAW NO. EQCE081503
 TRANSCRIPT OF BENCH TRIAL
 Volume I of II
 July 17, 2017

The above-entitled matter came on for bench trial before the Honorable Jeffrey D. Farrell, commencing at 9:02 a.m. on Monday, July 17, 2017, at the Polk County Courthouse, Des Moines, Iowa.

Josie R. Johnson, CSR, RPR
 Official Court Reporter
 Room 304, Polk County Courthouse
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EXHIBITS

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A P P E A R A N C E S

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EXHIBITS (continued)

<u>PETITIONER'S EXHIBITS</u>		<u>OFFERED</u>	<u>RECEIVED</u>
15	Dr. Collins rebuttal report	6	7
16	Dr. Lipinski rebuttal report	6	7
47	Melissa Bird disclosure	6	7
53	Iowa bus routes map	6	7
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<u>RESPONDENT'S EXHIBITS</u>		<u>OFFERED</u>	<u>RECEIVED</u>
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1 patient is not able to tell their parents about it, and
 2 completes it in a different way, then it would be harder
 3 for them to get access to that care.
 4 Q. And you already spoke about low-income patients.
 5 How would the Act, in your opinion, impact these patients?
 6 A. It would create a bigger burden for those
 7 patients financially.
 8 Q. Can you elaborate on that?
 9 A. Yeah. Since most of our patients are lower
 10 income at our health center, having to come to multiple
 11 appointments, take off multiple days of work, find
 12 childcare, find -- if their partners are going to come with
 13 them as well -- so two people would be losing income at
 14 that point. It would create a bigger burden for patients.
 15 Q. And one last question, Mr. Reynolds. If this law
 16 were to take effect, how would this impact Planned
 17 Parenthood's patients on a whole?
 18 A. I have said this already, but I do believe that
 19 this would reduce access for patients to receive the type
 20 of care that they wanted with abortions and in some cases
 21 prevent patients from receiving an abortion.
 22 MS. RATAKONDA: No further questions.
 23 THE COURT: Cross?
 24 MR. OGDEN: Yes. Thank you, Your Honor.
 25

2 A. Again, I'm not familiar with that study.
 3 MR. OGDEN: No further questions.
 4 MS. RATAKONDA: No further questions.
 5 THE COURT: Thank you for your testimony.
 6 Next witness?
 7 MS. CLAPMAN: Your Honor, I apologize. Our next
 8 witness is on his way, but I underestimated the prior
 9 testimony. But he should be here any minute. Would it be
 10 okay to take a five-minute break?
 11 THE COURT: Why don't we do that.
 12 (The bench trial recessed at 1:56 p.m.)
 13 (The bench trial resumed at 2:10 p.m.)
 14 THE COURT: Will you raise your right hand,
 15 please.
 16 DANIEL GROSSMAN,
 17 called as a witness, having been first duly sworn by the
 18 court, was examined and testified as follows:
 19 DIRECT EXAMINATION
 20 BY MS. CLAPMAN:
 21 Q. Dr. Grossman, please state and spell your full
 22 name for the record.
 23 A. Daniel Grossman. D-a-n-i-e-l. G-r-o-s-s-m-a-n.
 24 Q. I would like you to turn to what should be Tab 7
 25 in your binder, which is marked Exhibit 7, which appears to

CROSS-EXAMINATION

1 BY MR. OGDEN:
 2 Q. Good afternoon, Mr. Reynolds.
 3 A. Good afternoon.
 4 Q. My name is Tom Ogden. I'm here on behalf of the
 5 Governor and the Board of Medicine. I will be very brief,
 6 I promise.
 7 You would agree with me that the decision whether
 8 to have an abortion or to carry a pregnancy to term is an
 9 important one?
 10 A. I would.
 11 Q. That's in part why you do counseling of patients
 12 prior to them making a decision?
 13 A. Correct.
 14 Q. You've opined that this, the challenged Act, is
 15 likely to prevent women from accessing an abortion. Are
 16 you aware that a study was done in Utah with the 72-hour,
 17 two-visit waiting period, that they found in the study that
 18 it did not prevent women from having abortions? Are you
 19 aware of that?
 20 A. I'm not familiar with that study.
 21 Q. Are you aware that -- well, I guess you wouldn't
 22 be aware, but just to make sure. Since you're not familiar
 23 with the study, you're also not aware that they found that
 24 on average the cost of the procedure was increased by only
 25

1 be a copy of your CV. Do you see it?
 2 A. Yes, I do.
 3 Q. Did you prepare this document?
 4 A. I did.
 5 Q. Is the information on this document accurate?
 6 A. Yes.
 7 Q. Where did you do your medical training?
 8 A. I went to medical school at Stanford University,
 9 and I did my residency in obstetrics and gynecology at the
 10 University of California, San Francisco.
 11 Q. Are you a board certified OB/GYN?
 12 A. Yes, I am.
 13 Q. Where do you currently practice medicine?
 14 A. I'm a professor in the Department of Obstetrics
 15 and Gynecology and Reproductive Sciences at the University
 16 of California, San Francisco, and my practice is focused at
 17 Zuckerberg San Francisco General Hospital.
 18 Q. Please describe your medical practice.
 19 A. So the clinical part of my work is currently
 20 focused on outpatient obstetrics and gynecology, primarily
 21 outpatient gynecology, including family planning and
 22 abortion care.
 23 Q. And do you perform abortions?
 24 A. Yes, I do.
 25 Q. What procedures do you perform?

1 **A.** I mean, I perform first trimester aspiration
 2 abortion, surgical abortion. I perform second trimester
 3 surgical abortion, dilation and evacuation or D&E. I also
 4 perform first trimester medication abortions using
 5 Mifepristone and Misoprostol.
 6 **Q.** For how long have you provided abortions?
 7 **A.** I mean, I started providing as a resident, which
 8 I started in 1994.
 9 **Q.** Do you also teach abortion care?
 10 **A.** Yes, I do.
 11 **Q.** In what capacity?
 12 **A.** So in my role as a professor for all the clinical
 13 work I do, including the abortion care that I provide, I am
 14 teaching medical students, sometimes residency students,
 15 including OB/GYN residents, some family medicine residents,
 16 sometimes internal medicine residents, and family planing
 17 fellows. Sometimes I also do training with nurse
 18 practitioners or certified midwives who are willing to do
 19 abortion care.
 20 **Q.** Do you provide this teaching and training in a
 21 range of OB/GYN procedures?
 22 **A.** Beyond those related to the abortion care? Yes.
 23 **Q.** Does this training and teaching include informed
 24 consent?
 25 **A.** Yes, since that's a critical part of any

2 **A.** Yes. In my role on these committees I've been
 3 involved in both developing and writing practice bulletins
 4 and submitting opinions.
 5 **Q.** Do you regularly any attend medical conferences
 6 in the field of obstetrics and gynecology?
 7 **A.** Yes, I do.
 8 **Q.** Do you regularly present at these conferences?
 9 **A.** Yes, I do.
 10 **Q.** Do you also conduct research?
 11 **A.** Yes, I do.
 12 **Q.** How would you characterize your research?
 13 **A.** The research I do is both clinical research and
 14 social sciences. Also this health-focused research in
 15 obstetrics and gynecology is largely focused on family
 16 planning, including abortion, contraception, HIV, and
 17 reproductive health, more broadly.
 18 **Q.** Have you conducted research on the effects of
 19 abortion restrictions in the United States?
 20 **A.** Yes, I have.
 21 **Q.** Approximately how many articles have you
 22 published in peer-review journals?
 23 **A.** Approximately 140.
 24 **Q.** Do these appear on your CV?
 25 **A.** They do appear on my CV. I think there might

1 procedure that we do; yes.
 2 **Q.** Do you have any other positions?
 3 **A.** I mean, as part of my position at the University
 4 of California, San Francisco, I am also the director of a
 5 research program within the OB/GYN department called
 6 Advancing New Standards in Reproductive Health for Cancer.
 7 **Q.** What is the American College of Obstetrics and
 8 Gynecology?
 9 **A.** So the American College of Obstetricians and
 10 Gynecologists is the main professional organization for
 11 obstetricians and gynecologists. So I think it includes
 12 close to 60,000 members who are board certified
 13 obstetricians and gynecologists in the U.S.
 14 **Q.** Are you involved in this organization?
 15 **A.** Yes, I am.
 16 **Q.** In what capacity?
 17 **A.** I'm a fellow of the American College of
 18 Obstetricians and Gynecologists. I'm also active in
 19 several committees of the organization. I was on the
 20 committee for practice bulletins for gynecology, which
 21 develops sort of the practice guidance for practicing
 22 OB/GYNs, and I became vice chair of that committee. I'm
 23 currently on the committee for Healthcare for Underserved
 24 Women, and I am vice chair of that committee.
 25 **Q.** Have you been involved in drafting any ACOG

1 have been a couple that have been accepted for publication
 2 since this draft was prepared.
 3 **Q.** Have you been a review for scientific journals?
 4 **A.** Yes, I have.
 5 **Q.** Can you give some examples that come to mind?
 6 **A.** I have reviewed for journals for the American
 7 Medical Association, Obstetrics and Gynecology,
 8 Contraception. I'm actually on the editorial board for The
 9 Journal of Contraception.
 10 **Q.** Have you been previously qualified as an expert
 11 witness?
 12 **A.** Yes, I have.
 13 **Q.** In what areas?
 14 **A.** Related to family planning and abortion care.
 15 **MS. CLAPMAN:** At this time I would like to move
 16 to qualify Dr. Grossman as an expert in obstetrics and
 17 gynecology, including abortion and informed consent
 18 procedures for abortion and in the social impact of
 19 abortion acts and abortion restrictions.
 20 **MR. THOMPSON:** No objection, Your Honor.
 21 **Q.** Dr. Grossman, are you here today to offer expert
 22 opinion about Iowa Senate File 471?
 23 **A.** Yes, I am.
 24 **Q.** And you can refer to the Act if you would like.
 25 It's Exhibit 1, so it should be Tab 1 in your binder. Are

1 you here today, specifically to testify about this mandatory delay period in that law?

2 **A.** Yes, I am.

3 **Q.** What opinion are you offering in this -- about this law?

4 **A.** It's my opinion that this requirement does not improve patient decision making and that it provides -- it imposes obstacles to care in the form of, you know, increasing travel to the abortion, making it more logistically complicated. So I -- that's a short summary of my opinion.

5 **Q.** Okay. Please turn to Exhibits 14 and 15 and look at them briefly. Let's start with Exhibit 14. What is this?

6 **A.** I'm sorry. Start with 14?

7 **Q.** Yes. Please.

8 **A.** 14 looks like my rebuttal report.

9 **Q.** And what is Exhibit 15?

10 **A.** 15. I'm not sure if this is maybe -- Exhibit 15 is not mine.

11 **Q.** Okay. I apologize.

12 **Q.** Okay. Dr. Grossman, could you please turn to Exhibit Tab 11. What is that?

13 **A.** That's my expert report.

14 **Q.** Does it accurately reflect your opinions in this

1 case?

2 **A.** Yes.

3 **Q.** And could you please turn to Exhibit Tab 14.

4 **A.** That's my expert rebuttal report.

5 **Q.** Does it accurately reflect your opinions in this case?

6 **A.** Yes, it does.

7 **Q.** Okay. What percentage of women have an abortion at some point in their lives?

8 **A.** It's more between about 25 to 30 percent of women who have an abortion at some time in their lives.

9 **Q.** And why do women have abortions?

10 **A.** I mean, they have abortions for a variety of reasons. The majority, about 60 percent of women, who seek abortion are already mothers and they're thinking about their current children that they have. For other women, sometimes they have health conditions they may get, not the right time for them to be having a pregnancy. Some women have life plans, like their education or work plans, meaning that it's not the right time for them to have a baby. Those are all some reasons that women state.

11 **Q.** Nationally, what percentage of women seeking an abortion are low income?

12 **A.** I think the most recent data suggests that about 75 percent of women seeking abortion are low income,

1 meaning a woman living at or below 200 percent of the poverty level.

2 **Q.** Do some women have preferences between possible abortion methods?

3 **A.** If you mean specifically between medication abortion versus surgical abortion, yes, women definitely do often have preferences between those two methods.

4 **Q.** Have you seen this in your clinical practice?

5 **A.** Yes, I have.

6 **Q.** What specifically have you seen in your clinical practice about patient preferences for the abortion?

7 **A.** I would say in my experience that the majority of women, certainly by the time they come in the clinic, have a pretty good idea of the method they want. And if there are reasons why they can't have their preferred method, like a woman is past the gestational age limit for a medication abortion, for example, you know, they're very disappointed and sometimes really quite upset about this news, because they have strong preferences.

8 I mean, women who -- and this is also reflected in the published literature -- women who have a preference for a medication abortion often want to have a less invasive procedure. They want to have that abortion at home surrounded by their partner or family member or friend, and they just want to feel more in control of the

1 whole process.

2 **Q.** Have you conducted any research related to this question?

3 **A.** Yes, I have.

4 **Q.** What research?

5 **A.** In several studies, but one in particular that I think is relevant is work that we did here in Iowa where we specifically looked at medication abortion patients at Planned Parenthood of the Heartland and comparing some outcomes between women who had a telemedicine abortion versus in-person medication abortion care. And one of the things that we looked at was specifically whether women had a preference for medication abortion early on in their decision-making process, so shortly after they decided to have the abortion. And if I recall correctly, I think it was around 71 percent of women overall said that they had a strong preference for medication abortion as they made their decision to have the abortion.

6 **Q.** I would like to refer you to Exhibit 28. It should be Tab 28. Is that the study you're referring to?

7 **A.** Yes.

8 **Q.** Could you please read for the record the title of publication, lead author, and the publication date?

9 **A.** So the title is "Effectiveness and Acceptability of Medical Abortion Provided Through Telemedicine."

1 Grossman is the first author published in *Obstetrics & Gynecology* in August 2011.

2 Q. And you mentioned a finding about preferences for medication abortion. Did you also look at women's preferences about timing?

3 A. Yes, we did. I want to confirm -- yes. So I was correct about the strong feeling about medication abortion was about 71 percent overall. And in terms of about those having -- we asked about how important it was for women to have an abortion as early as possible or having an early abortion, and about 94 percent said that that was very important to them.

4 Q. Is this research relevant to this case?

5 A. I think it's relevant. First of all, this is coming from, you know, a relatively large sample, over 400 women here in Iowa who were seeking and obtained a medication abortion and really highlights how women have a strong preference for both medication abortions and for having abortion as early as possible. It's my opinion that if this law goes into effect that women will be delayed in their process of seeking abortion and some will be delayed past the point of which they will be eligible for a medication abortion.

6 Q. Are you aware of any specific factors affecting access to abortion in Iowa?

2 A. I'm sorry. So it was paragraph 13; correct?

3 Yeah. So we found that a little over 25 percent, so about 28 percent of women of reproductive age in Iowa or about 162,000 women, live in a county at least 50 miles from the nearest abortion provider in the state, and about 260,000 women, or 44 percent of this population in Iowa, live in a county that is 50 miles or farther from the nearest facility providing surgical abortion in the state.

4 Q. Did you also look at distance traveled among women having an abortion in Iowa?

5 A. Yes, I did.

6 Q. And what did this show?

7 A. Can I turn to the --

8 Q. Yes. If you need to refer to your rebuttal report, it's paragraph 8 of this report, and it's Exhibit 14.

9 A. Okay. So just to say that -- so this was based on some estimates looking at the distances from the nearest abortion clinic or surgical abortion clinic in the state and trying to make some estimates about which termination of pregnancy reporting regions were largely within those radii.

10 But based on the best calculations that I could make -- so 47 percent of -- is this correct? Let me see.

1 A. Yeah. I am aware of few things. I mean, something I'm aware of, for example, that there's a requirement that only physicians can provide an abortion, despite the high-quality evidence that advanced practice clinicians, nurse practitioners, midwives, physician's assistants can safely and effectively provide both medication abortions and surgical abortions.

2 I'm aware there's a recent imposition of a ban on abortions after 20 weeks of gestation. I'm also aware that due to some of the changes in funding that is available to Planned Parenthood that they will be closing certain health centers and that will be further constraining access to abortion in the state.

3 Q. Have you analyzed how far women have to travel to reach a provider in Iowa?

4 A. Yes, I have.

5 Q. What did you look at specifically?

6 A. We looked at this a couple different ways, but the main way we looked at it was looking at the population of women of reproductive age here in Iowa and then looking at what proportion of women live -- lived in counties at various distances to both clinics that only provided surgical abortions in clinics in Iowa.

7 Q. And referring to paragraph 13 of your expert report if you need to, just -- Exhibit 11 -- what did you

1 47 percent of the surgical abortion patients and nearly 2 44 percent of medication abortion patients lived in regions 3 more than 50 miles from the clinic. Just to say -- I said 4 the actual calculation. It, again, was really the reverse. 5 To say that 52 percent of surgical patients we cited were 6 almost entirely within a 50-mile radius of a surgical 7 provider. And then, similarly, 56 percent of medication 8 abortion patients we cited in a region almost entirely 9 within 50 miles of any provider.

10 Q. How do these specifics compare to the national average?

11 A. So, nationally, according to the national data, 12 only about 17 percent of women travel 50 miles or more one 13 way to access abortion care. So this is really quite a bit 14 higher, larger proportion of women that are having to 15 travel these long distances.

16 Q. Do these findings tell you anything about how the 17 Act would affect women in Iowa?

18 A. Well, I think this highlights how already women 19 are having to travel long distances, and those distances 20 are obviously going to double if they have to make two 21 visits to these facilities. And then as I said before, I'm 22 concerned that some women will be delayed in the process, 23 some women wanting to obtain medication abortions could 24 obtain closer to where they live, will now have to travel 25

1 farther to access a surgical abortion site.
 2 Q. We've talked a little bit about legal
 3 restrictions in Iowa and also about the provider
 4 availability in Iowa. Apart from these circumstances, do
 5 women face other barriers to accessing an abortion?
 6 A. In general?
 7 Q. In general.
 8 A. Sure. I mean, certainly, women face obstacles
 9 accessing abortion care. As I mentioned, 75 percent of
 10 women seeking abortion are low income, and the women often
 11 have to pay out of pocket for the abortion procedure as
 12 well as any related travel, missed time off from work,
 13 arranging childcare, so all those costs can be quite
 14 significant for these women.
 15 Adolescents face barriers accessing care. Rural
 16 women who have to travel long distances face obstacles
 17 accessing care. Women who are in -- who are victims of
 18 intimate partner violence from an abusive partner face
 19 challenges accessing abortion care.
 20 So, you know, these are some populations in
 21 particular that can face barriers in accessing care.
 22 Q. You mentioned abusive partners. Do some of the
 23 abusive partners coerce women into becoming pregnant?
 24 A. Yes. There is a growing recognition of this
 25 phenomenon that's called reproductive and sexual coercion

2 obstetricians and
 3 gynecologists need to be aware of. And it kind of just
 4 gives an overview of what this phenomenon is. I think it
 5 just really highlights that this is significant enough a
 6 problem that ACOG saw it fitting to issue a committee
 7 opinion about it.
 8 Q. You mentioned low-income women often have trouble
 9 accessing abortions. Why is that?
 10 A. Well, as I mentioned, most women pay out of
 11 pocket for the abortion procedure, and then there are
 12 additional costs related to obtaining abortion care like
 13 transportation costs, missed work, arranging childcare,
 14 things like that.
 15 Q. Is there research on how abortion-related costs
 16 affect low-income women?
 17 A. Yes, there is.
 18 Q. I would like you to refer to Tab 32, which is
 19 learned treatise 32. Do you recognize this document?
 20 A. Yes.
 21 Q. Did you rely on it for your opinion that poverty
 22 is a barrier for abortion access?
 23 A. Yes.
 24 Q. Please, for the record, read the lead author,
 25 title, publication, and publication date.
 A. The lead author is Deborah Karasek,

1 where some women who have partners who can be sometimes
 2 physically abusive but can also sometimes interfere with
 3 their reproductive health in terms of making it difficult
 4 for them to use contraception or continue to use
 5 contraception, putting them at risk for unintended
 6 pregnancy, and sometimes making it difficult for them to
 7 access abortion care when the woman wants it.
 8 Q. Has ACOG expressed concern about these problems?
 9 A. Yes. The American College of Obstetricians and
 10 Gynecologists has raised concern about this problem of
 11 reproductive coercion.
 12 Q. Okay. I would like you to refer to Tab 20 in
 13 your binder, which is Exhibit 20. Do you recognize this?
 14 A. Yes, I do.
 15 Q. Is this the opinion you were referring to?
 16 A. Yes.
 17 Q. Could you please read the title for the record?
 18 A. It's a Committee Opinion from the Committee on
 19 Healthcare for Underserved Women of the American College of
 20 the Obstetricians and Gynecologists. The title is
 21 "Reproductive and Sexual Coercion." It was published in
 22 *The Journal of Obstetrics & Gynecology*. It was issued in
 23 February 2013.
 24 Q. And what does the committee opinion state?
 25 A. I think the opinion is really trying to highlight

1 K-a-r-a-s-e-k. The title is "Abortion Patients' Experience
 2 and Perceptions of Waiting Periods: Survey Evidence before
 3 Arizona's Two-Visit 24-hour Mandatory Waiting Period Law."
 4 It was published in *The Journal of Women's Health Issues* in
 5 2015.
 6 Q. Are you familiar with that journal?
 7 A. I am.
 8 Q. Is it generally considered reliable?
 9 A. Yes, it is.
 10 Q. Turning to the discussion section on page 64,
 11 what is -- what did the author report about how patients
 12 handled the costs associated with having an abortion?
 13 A. Sorry. I'm just -- I think that's -- I'm just
 14 trying to familiarize myself with this part of the paper
 15 again.
 16 So found that the majority of women seeking
 17 abortion care have to forego or delay food, rent,
 18 childcare, or another important cost to finance the
 19 abortion. And women who experienced these economic
 20 trade-offs were more likely to be low income and also to
 21 report difficulty in paying for the costs of the procedure.
 22 Q. I would like to turn now to the patient education
 23 and informed consent process for abortion patients. You
 24 mentioned that you provide abortions. Do you provide
 25 abortions on the day the patient first comes in?

1 **A.** Yes.

2 **Q.** Is that the general practice in states that don't

3 have a mandatory delay period?

4 **A.** Yes, I would say that is the general practice.

5 **Q.** Why is that?

6 **A.** Because if a patient presents seeking abortion

7 care and she's sure of her decision and she's been given

8 all the information that she needs, again, she's medically

9 eligible for the procedure on that day, then I would say

10 it's best medical practice to provide the service that day

11 if it's possible. Women are often eager to get the

12 procedure performed as quickly as possible.

13 As I mentioned already from our research, the

14 vast majority of women say they wanted to have the abortion

15 as early as possible. And so, yeah. If the women meet all

16 of those criteria that I just mentioned, then I think it's

17 best medical practice to provide the service the same day.

18 It's obviously logistically more complicated if

19 we have to have women come back at another time, and

20 particularly the population that we serve in the facility

21 where I work, it's primarily low-income population. And

22 it's often difficult for them to arrange to get into the

23 facility, to get a day off from work, arrange childcare,

24 things like that. So we really try to meet the woman's

25 needs on that day when she comes in.

2 methods of abortions that are available to her and describe

3 those. We describe the procedure that she has chosen to go

4 through and go through all of the alternatives, including

5 the possibility of continuing with the pregnancy. We talk

6 about the risks associated with the procedure that she's

7 chosen. We talk about the chances of successful outcome.

8 And then there's a teach-back process where I ask her to

9 tell me what she's just heard and to make sure she's

10 understood all that.

11 **Q.** Does that discussion include the question of

12 whether the patient is firm in her decision?

13 **A.** Yes, it does.

14 **Q.** Based on these conversations, do you have an

15 opinion about how patients make these decisions?

16 **A.** Certainly. By the time women come to see me at

17 the facility where I work, they have thought long and hard

18 about this decision, and they have made a careful and

19 considered decision about what is best for them and their

20 family. So, yes, I believe that women have made a very

21 careful decision and gone through a very careful process to

22 come to that decision by the time that they come to see me.

23 **Q.** Have some of your patients made up their minds to

24 have the abortion by the time of your first visit with

25 them?

A. Yes. I would say the majority of women have made

1 **Q.** You mentioned that patients are often anxious to

2 have the procedure performed as soon as possible. Other

3 than the logistical issues that you were just describing,

4 are there other reasons why women want to have the abortion

5 as soon as possible?

6 **A.** Sometimes women are having, you know, some

7 symptoms related to pregnancy like nausea, vomiting, other

8 discomfort, and they're, again, eager to end that.

9 Sometimes women have other, you know, medical conditions

10 that -- where it's in their best interest to try to do the

11 procedure as quickly as possible. You know, sometimes

12 women who are victims of sexual assault that are pregnant

13 are particularly eager to have it done as quickly as

14 possible. And so we really try to meet their needs in

15 particular.

16 So those are some of the examples and some

17 reasons why people are anxious to get the procedure done as

18 quickly as possible.

19 **Q.** Before you start an abortion procedure, do you

20 discuss that procedure with the patient?

21 **A.** Yes, I do.

22 **Q.** What do you discuss?

23 **A.** The -- I mean, we go through, first of all, to

24 make sure the woman is certain of her decision about the

25 abortion -- about having an abortion. We go through the

1 that decision by the time they come into the clinic.

2 **Q.** And what has a patient typically done to make up

3 her mind?

4 **A.** I mean, she's done a variety of things. Women

5 sometimes, you know, try to get as much information as they

6 can. They go online to learn about the procedure or about

7 the clinic, and they talk to friends and family members.

8 Often the man is involved in the pregnancy, and they've

9 really thought carefully about what resources are available

10 to them and what is the best decision for them.

11 **Q.** What is the informed consent process in your

12 practice? You described a little bit about your

13 conversation with patients. Is there any other component

14 to that practice?

15 **A.** Yes. So when patients come in, they first go

16 through an information education session with an educator

17 in the clinic who goes through much of the information that

18 I already talked about, including reviewing her -- how

19 certain the woman is, reviewing the options in terms of the

20 abortion, and what method she's chosen.

21 **Q.** What you've just described in terms of your

22 interaction with patients and the interactions of staff at

23 your practice, is this the general standard of care for

24 abortion providers?

25 **A.** It -- definitely the standard of care involves

1 all of the elements of informed consent that I just talked
2 about. Whether or not it involves more than one person or
3 not, I don't think that that's necessarily standard. I
4 think that high-quality care could be performed by just the
5 clinician doing all of that. But I think in many
6 facilities there is a separate educator specialist who does
7 that information education counseling.

8 Q. Do your patients have an ultrasound before the
9 procedure?

10 A. Yes, they do.

11 Q. Does your practice offer them the option of
12 viewing it?

13 A. Yes, we do.

14 Q. Do you know roughly what percentage take that
15 option?

16 A. I think that it's definitely a minority, and I
17 would say about 15 percent or so.

18 Q. At the end of the informed consent process, do
19 some patients decide to carry to term?

20 A. They do.

21 Q. Do some patients decide that they need more time
22 before going forward with the abortion?

23 A. Some patients do.

24 Q. What percentage of patients fall into those two
25 categories in your experience?

2 Q. What did the authors of this study look at?

3 A. So they looked at a sample of women who are
4 seeking abortion care and kind of compared two different
5 measures of decisional certainty, one of which is a
6 decisional conflict scale, so a validated measure that has
7 been used in other healthcare settings to look at patients'
8 decisional certainty regarding other healthcare choices.

9 Q. What did they include -- what did they conclude
10 about how abortion certainty compares to other medical
11 procedures?

12 A. So they found that decisional certainty was high
13 on both of these scales, including the scale that had been
14 validated, as I said. And decisional certainty appears to
15 be comparable to or higher than decisional certainty for
16 patients seeking other medical procedures. So by way of
17 example, make some comparisons. So the score for the
18 levels of decisional certainty in this study were
19 comparable to or lower than those found in other studies of
20 actually making healthcare decisions, such as mastectomy
21 after breast cancer diagnosis, prenatal testing of
22 infertility or antidepressant use during pregnancy. They
23 are also lower than levels observed in studies of men and
24 women making decisions about constructive knee surgery or
25 men deciding on prostate cancer treatment options.

1 A. In my experience I would say that probably it's
2 less than 10 percent end up leaving the clinic without
3 having the abortion on that day.

4 Q. Have studies been conducted on patients'
5 certainty before abortion?

6 A. Yes.

7 Q. What do they show, generally speaking?

8 A. In general it's very similar to what I just said
9 in my personal clinical experience, that the vast majority
10 of patients are very certain of their decision when they
11 come to the abortion clinic.

12 Q. Please turn to Tab 34 in your binder, which
13 should be marked learned treatise 34. Do you recognize
14 this?

15 A. I do.

16 Q. Is this one of the studies you relied on?

17 A. Yes, it is.

18 Q. Please for the record read the lead author, title
19 publication, and publication date.

20 A. The lead author is Lauren J. Ralph. The title is
21 "Measuring decisional certainty among women seeking
22 abortion." It was published in *Contraception* in 2017.

23 Q. Do you recognize this journal?

24 A. I do.

25 Q. Is it generally considered reliable?

1 THE COURT: Can you stop for just a second. We
2 are getting a lot of buzzing from phones over here, and
3 it's getting to be a little bit of a distraction. So
4 whoever has got phones on that are buzzing, we need to get
5 them on silent.

6 I don't know exactly where it's coming from. It
7 seems like it's coming from over here.

8 If it's not vibrating and I can't hear it, that's
9 fine. I know you're using them for work purposes, so
10 that's why I don't want to stop you from doing that. But
11 if it gets to be too much of a distraction, then I don't
12 want that either, because we're here for a reason, and it's
13 to make sure the witness can understand the questions and I
14 can understand the answers and so forth. All right. Thank
15 you.

16 You may proceed with your next question.

17 Q. I'm now going to show you learned treatise 26,
18 which should be at Tab 26 in your binder. Do you recognize
19 this?

20 A. Yes, I do.

21 Q. Is this one of the studies you relied on?

22 A. Yes, it is.

23 Q. Please for the record read the lead author,
24 title, publication, and publication date.

25 A. The lead author is Mary Gatter, G-a-t-t-e-r. The

1 title is "Relationship Between Ultrasound Viewing and
2 Proceeding to Abortion," published in *Obstetrics &
3 Gynecology* in January 2014.

4 Q. Do you recognize the journal?

5 A. Yes, I do.

6 Q. Is it generally considered reliable?

7 A. Yes, it is.

8 Q. And turning to page 83.

9 Before we do that, what did the authors of this
10 source look at?

11 A. So this was an analysis of data from a clinic
12 system in California where women had the option of viewing
13 ultrasound that was performed on the same day as the
14 abortion. And it was an analysis of close to 16,000 visits
15 of women seeking abortion care at this large urban provider
16 in California.

17 Q. Turning to page 83, what did the researchers
18 conclude about the percentage of patients who are certain
19 about their decision?

20 A. So they found -- again, actually, using one of
21 the scales that was included in the prior paper that I
22 mentioned, that the vast majority of women were certain
23 about their decisions to have an abortion. 85.4 percent
24 were certain about that decision.

25 Q. Would that have been assessed at the time they

1 title is "Decisional Regret and Emotional Responses to
2 Abortion in the United States: A Longitudinal Study." It
3 was published in *Journal PLOS One* in 2015.

4 Q. Did you review the methodology of this study and
5 find it reliable?

6 A. Yes, I did.

7 Q. What did the authors of this study look at?

8 A. So this was looking at -- this was an analysis of
9 a cohort of women receiving an abortion between 2008 and
10 2010 at 30 facilities across the United States. And this
11 particular analysis included women who had a first
12 trimester abortion and then also a group of women who
13 obtained an abortion near the gestational age limit for the
14 facility. And they performed interviews shortly after
15 women had the abortion, and then they performed interviews,
16 I believe it was, every six months up to three years is
17 what is reported in this study.

18 Q. Turn to page 10 of this study, please. What did
19 the researchers find?

20 A. They found that 95 percent of the participants
21 reported that the decision was the right decision for them
22 at all of the time points -- so every time one of them was
23 interviewed -- all of the interviews up to three years.
24 And they also did another analysis that kind of accounted
25 for attrition of patients in the cohort that determined

1 came to the clinic?

2 A. Yes, it would be.

3 Q. And in this same paragraph, what did they find
4 was the percentage of women who expressed medium to low
5 certainty about their decision?

6 A. So 7.4 percent expressed medium or low decision
7 certainty.

8 Q. Is there research on patients' feelings about
9 their abortion after the fact?

10 A. Yes, there is.

11 Q. What does it show generally?

12 A. In general it shows that, you know, both
13 immediately after the abortion and looking back even years
14 later, that the vast majority of women reflect on their
15 decision as being the right decision for them at that point
16 in their lives.

17 Q. I'm now going to show you learned treatise 36.
18 Do you recognize this document?

19 A. Yes, I do.

20 Q. Is this one of the studies you consulted for this
21 opinion?

22 A. Yes, it is.

23 Q. Please for the record read the lead author,
24 title, publication, and publication date.

25 A. The lead author is Corinne Rocca, R-o-c-c-a. The

1 that the typical participant had an over nearly 99 percent
2 chance of reporting that the abortion decision was right
3 for her at an individual interview. So basically just
4 really highlights what I was saying, which is certainly in
5 my experience that even years later women look back on the
6 decision and say that it was the right decision for them.

7 Q. When you say that's your experience, is that
8 based on interactions that you've had with patients after
9 their abortion?

10 A. Yes. In my practice currently. In my practice
11 when I was in private practice as a general obstetrician
12 and gynecologist, you know, I would often see women -- I
13 would care for women for over years, and I would see them
14 after they had had an abortion, and, you know, sometimes it
15 was a hard decision for women at the time. But reflecting
16 back on it, they said it was the right decision for them.

17 Q. Have you ever had a patient express to you that
18 she felt she had made the wrong decision?

19 A. I have not had a patient express that to me.

20 Q. Have you ever had a patient express to you that
21 she wished she had taken more time with that decision?

22 A. I have not had a patient express that.

23 Q. Based on your clinical experience and your review
24 of the scientific literature, do you have an opinion as to
25 whether same-day abortion procedures are consistent with

1 best medical practices?

2 **A.** I do have an opinion. I believe that -- this is

3 the practice in my practice in California, and I believe

4 that this is consistent with best medical practice.

5 **Q.** And is it consistent with medical ethics?

6 **A.** I do believe it's consistent with medical ethics

7 as well. I believe that it respects patients' autonomy.

8 It respects -- it's consistent with the concept of

9 beneficence of providing timely, quality care and trying to

10 avoid the potential harms associated with unnecessary

11 delays in the procedure.

12 **Q.** Do you know how the Iowa law compares to the

13 mandatory delay laws in other states?

14 **A.** My understanding is that it's one of the

15 strictest of these mandatory delay laws. And the other --

16 only two other states that have as strict a restriction in

17 this area of mandatory delay.

18 **Q.** When you say it's one of the strictest, in what

19 way is it stricter than other laws?

20 **A.** It's my understanding that other states may have

21 mandatory delay laws, but in some cases the period of delay

22 may be shorter, like 24 hours instead of 72. And in some

23 states, it's possible for the patient to obtain the

24 required information, education counseling, over the phone,

25 through the internet, through telemedicine, things like

1 **Q.** When was it published?

2 **A.** This was published by the Texas Policy of

3 Evaluation Project in April of 2013.

4 **Q.** Are you one of the researchers for this study?

5 **A.** Yes, I am.

6 **Q.** Has this research been peer-reviewed?

7 **A.** An abstract of this research was peer-reviewed

8 and presented at the North American Forum on Family

9 Planning. And that has been published in *The Journal of*

10 *Contraception*.

11 **Q.** Can you explain the relevant findings in this

12 study?

13 **A.** So this was a survey that we performed of women

14 obtaining -- seeking abortion care in Texas in 2012. So

15 shortly after HB 15 went into effect in Texas requiring

16 women to make an additional visit at least 24 hours before

17 the procedure to have an abortion to have an ultrasound

18 performed, and we interviewed -- we surveyed about 300 -- a

19 little over 300 women. And some of the findings from the

20 survey were that almost a third, about 31 percent reported

21 that this waiting period had a negative effect on their

22 emotional well-being.

23 **Q.** Would you like me to tell you some of the other

24 findings?

25 **A.** Yes. Yes, please.

1 that.

2 **Q.** Has there been research on the effects of

3 mandatory delay laws?

4 **A.** Yes, there has been.

5 **Q.** Are you familiar with this research?

6 **A.** Yes.

7 **Q.** What does it show generally?

8 **A.** In general this research doesn't indicate that it

9 improves patient decision making, and it imposes a barrier

10 to access that can cause delays in accessing care and

11 pushing women later than even the mandatory period of delay

12 that is part of the law. It is likely to prevent some

13 women from obtaining an abortion at all, and it makes the

14 procedure logistically more complicated and more expensive

15 for women.

16 **Q.** Have you done research on this subject yourself?

17 **A.** Yes, I have.

18 **Q.** Please turn to learned treatise 39, which should

19 be Tab 39. Do you recognize this document?

20 **A.** Yes, I do.

21 **Q.** Is this one of the studies you were referring to?

22 **A.** Yes, it is.

23 **Q.** Could you please read the title into the record?

24 **A.** This is -- the title is "Impact of Abortion

25 Restrictions in Texas Research Brief."

1 **A.** I mean, we also asked women to reflect on what

2 their level of decisional certainty about the abortion was

3 prior to this consultation visit 24 hours before the

4 abortion and what it was after that. And 92 percent of

5 women reported that they were sure of their decision or

6 that the abortion was a better choice for them. And

7 following the consultation visit and ultrasound, that

8 proportion was unchanged at 92 percent. Close to a quarter

9 of the women, about 23 percent, said that it was hard to

10 get in the clinic for that consultation visit.

11 **Q.** And in a multivariable analysis that controlled

12 for other factors, we found that low-income women and women

13 who lived more than 20 miles from the clinic were

14 significantly more likely to report that it was hard to get

15 to the clinic for this visit. Close to half of the women

16 also reported some out-of-pocket expenditure for the

17 consultation visit, not including fees they had to pay to

18 the clinic, but these were additional costs. And on

19 average, they spent about \$140.

20 **Q.** I would like you to turn to Tab 35, which is

21 learned treatise 35. Do you recognize the document?

22 **A.** Yes, I do.

23 **Q.** Please for the record read the lead author, title,

24 publication, and publication date?

25 **A.** The lead author is Sarah C.M. Roberts. The title

1 is "Utah's 72-Hour Waiting Period for Abortion: Experiences Among Clinic-Based Sample of Women." It was published in *The Journal of Perspectives on Sexual and Reproductive Health* in 2016.

2 Q. Is this one of the studies you relied on?

3 A. Yes.

4 Q. Turning to page 185 of this study, did this study report a finding on patient certainty before and after the first visit?

5 A. Let's see. Do you mind just pointing to the part?

6 Q. Yes. I'm on page 185 toward the bottom of the first paragraph. Did the study contain findings related to patients' certainty and related to whether patients changing their minds?

7 A. Relating to patients changing their mind. Yes. That is here. They found that about 2 percent of patients change their mind from being -- reporting that they were unconflicted or sure that they wanted the abortion at the time of the information visit, and then decided later to continue the pregnancy. And they report that this is in the range of proportions of women who report changing their mind. That's a range from 1 to 3 percent in settings with no or minimal waiting periods. Because they really -- highlighting the conclusions of the study that it did, it

1 follow-up interview that they were no longer seeking an abortion, still deciding, or pushed beyond the gestational limit. Of these, 11 of those had indicated at the baseline that they preferred to have the baby, and an additional nine had preferred abortion but had been somewhat or highly conflicted.

2 So these are patients that I would say -- I don't know exactly the practice in these four facilities where they recruited patients, but certainly in our practice, if a woman reports that she would prefer to have the baby when she presents seeking abortion care, we would not be offering the option of having the abortion in the same day, and she would be encouraged to take additional time to reflect on her decision.

3 And then it's the -- seven of these 27 or 2 percent of those who completed follow-up who said that at the baseline that they had preferred abortion and also had low conflict but now had decided they were no longer seeking abortion.

4 Q. Okay.

5 **THE COURT:** I want to stop you, because I want to get one more break in. So let's take a 15-minute break.

6 (The bench trial recessed at 3:05 p.m.)

7 (The bench trial resumed at 3:23 p.m.)

8 **THE COURT:** Did you have additional questions on

1 did not appear that women were more likely to change their mind because of the waiting period.

2 Q. Is there also research on the effects of voluntary ultrasound?

3 Sorry. Before I turn to that, in that study -- and I would like you to turn to the abstract -- do you see in the abstract the report that 8 percent of subjects were no longer seeking an abortion?

4 A. Yes.

5 Q. Okay. What does the study tell us about the patients in this percentage?

6 A. So just to include -- so a little bit of background about this study. This was done in Utah after that state passed a requirement of a 72-hour mandatory delay prior to abortion. And they recruited for the study -- recruited a cohort of about 500 women at four family planning facilities who were seeking abortion in 2013 to 2014. And then they attempted to follow them up afterwards to see if they obtained the abortion or not, and then also to see what had happened with these women; and they were able to follow-up with 309 women.

7 So -- and then this data about the proportion and the numbers that continued the pregnancy or who obtained the abortion are out of that 309. So that 8 percent is 27 women who reported at the follow-up, women that at the

1 direct?

2 **MS. CLAPMAN:** Yes.

3 Q. Dr. Grossman, continuing with this Roberts study, could you please turn to page 184?

4 A. Please remind me of the tab. Sorry.

5 Q. Yes. Tab 35. Could you please turn to page 184 of that study, and could you please read the first sentence out loud in the discussion section?

6 A. It writes, "Overall, Utah's 72-hour waiting period and two-visit requirement did not prevent women -- prevent women who presented for information visits at the study facilities from having abortions, but did burden women with financial costs, logistical hassles, and extended periods of dwelling on decisions they had already made."

7 Q. Do you agree with the statement in this study that the 72-hour waiting period did not prevent women who presented for information visits from receiving care?

8 A. I think in terms of making a generalized conclusion based on the data, yes. I mean, I do think if you look at the findings and look at -- there's one woman who was, you know, pushed past the gestational age limit at the facility where she was seeking care and she was unable to obtain care. There was another woman who was found to be farther along in the pregnancy and was not able to

1 obtain the abortion. So perhaps there were a couple women
 2 who were affected by the delay and unable to obtain care.
 3 I think based on this small study they could not
 4 draw a generalizable conclusion that this requirement
 5 prevented the people who already presented for the initial
 6 consultation visit from obtaining the abortion care that
 7 they wanted. But I think at times it's important to
 8 recognize that this wasn't really what the study was aiming
 9 to do. I mean, it's a relatively small study, and they
 10 were recruiting patients at the time that they presented
 11 for this initial consultation visit.
 12 So, obviously, they couldn't assess whether
 13 women, you know, potentially learn about the requirement
 14 that they have to, you know, make two visits 72 hours apart
 15 and decide that those logistical burdens are too great and
 16 they don't end up seeking care at all. This study
 17 obviously couldn't measure that. There are other studies
 18 that have tried to look at this.
 19 Q. And what study, specifically?
 20 A. Well, for example, the Sanders study in Utah is
 21 one they included an analysis that tried to look at the
 22 overall participants from several different abortion
 23 clinics and looked at how that changed when the policy went
 24 into effect requiring the 72-hour mandatory delay.
 25 Q. Any other studies?

1 A. If you would like me to talk about that
 2 specifically, I could turn to the actual study. But, I
 3 mean, there's another study we looked at in Texas. In --
 4 the paper has not been published yet, but we published it
 5 as a poster at a national meeting where we looked at the
 6 vital statistics data for Texas and looked at what happened
 7 to the vital statistics for abortion in 2012, the first
 8 year -- full year after HB 15 went into effect that
 9 required an additional visit, and then compared that to the
 10 prior years.
 11 And there had been a preexisting decline in
 12 abortion that predated HB 15, but there was then a marked
 13 further decline after HB 15 went into effect and decline of
 14 about 2 percent overall, suggesting that some women were
 15 prevented from obtaining abortions because of -- because of
 16 restriction, especially being this study was in Texas where
 17 at the same time the family planning safety net for low
 18 income was really dismantled and funding for contraception
 19 was severely constrained. So there's really no reason to
 20 believe that this decline in the abortion rate might be due
 21 to improved contraceptive use.
 22 Interestingly, we also found that there was a
 23 small increase in second trimester abortion, despite the
 24 overall decline. And then there was also the study from
 25 Mississippi that also shows an overall significant decline

1 the mandatory 24-hour delay period went into effect.
 2 Q. Okay. You mentioned this Sanders study. I would
 3 like you to turn to Tab 37, which is learned treatise 37.
 4 Is this the study you were referring to?
 5 A. Yes.
 6 Q. Could you please read for the record the lead
 7 author, the title, the publication, and the publication
 8 date.
 9 A. The lead author is Jessica N. Sanders. The title
 10 is "The Longest Wait: Examining the Impact of Utah's
 11 72-Hour Waiting Period for Abortion." Was published in
 12 *Women's Health Issues* in 2016.
 13 Q. Did you review the methodology of the study and
 14 find it reliable?
 15 A. Yes, I did.
 16 Q. And what was the study looking at?
 17 A. There were two parts to the study. The one that
 18 I just mentioned was they looked at the abortion statistics
 19 for, I believe, three clinics in Utah that overall provided
 20 about 90 percent of the procedures in the state, and they
 21 looked at the proportion of women who returned for the
 22 abortion visit both during the period when they had a
 23 24-hour mandatory delay law and then again later the
 24 period -- year period where they -- after the 72-hour
 25 mandatory delay period went into effect. And then in

1 addition to that, they reported on a patient questionnaire
 2 that was completed by a little over 300 women who were
 3 obtaining abortion care, one in the clinic in Utah.
 4 Q. And you mentioned there was a finding in the
 5 study that's relevant to the questions of whether patients
 6 are prevented obtaining abortion from a mandatory delay
 7 period?
 8 A. So they found that during that 24-hour -- when --
 9 during the period in which they were -- there was a 24-hour
 10 waiting period or mandatory delay, 80 percent of patients
 11 returned for the abortion to the facilities. And during
 12 the period, one-year period where they acted -- after the
 13 72-hour mandatory delay period went into effect, 77 percent
 14 returned for the abortion visit. So there was about a 3
 15 percent difference in increase in the number of patients
 16 who were not returning for the abortion visit.
 17 Q. What does that indicate to you?
 18 A. I think it suggests that, you know, potentially,
 19 some women found it difficult to get back for that second
 20 visit.
 21 Q. While you're looking at that study, what are the
 22 other findings that you relied on in that study?
 23 A. So I think -- well, there's several others.
 24 Related to the other issue we are talking about?
 25 Q. Yes.

1 **A.** So one of the findings from this was that you
 2 know, what the law required. The law required a 72-hour
 3 mandatory delay. 63 percent of the women who received an
 4 abortion reported that more than seven days had passed
 5 since they visited the clinic for counseling and signed the
 6 consent form. So shows consistent with the other research
 7 in Utah and in other states that the -- that these laws end
 8 up creating longer delays than the period that is mandated.

9 Some of the other findings from the survey -- so
 10 62 percent of women indicated that the additional wait
 11 affected them negatively in some way. Of the women who
 12 were negatively affected, close to one-half had to take
 13 extra time off of work, and 15 percent missed an extra day
 14 at school. 47 percent reported lost wages, 15 percent
 15 reported extra childcare costs, 30 percent reported
 16 increased transportation costs, and 27 percent reported
 17 additional expenditures and lost wages by a family member
 18 or friend. And about a third of women who were negatively
 19 impacted by the 72-hour mandatory delay period indicated
 20 that they had to tell someone that they would not have told
 21 if it would have only been 24 hours.

22 **Q.** Did the study note anything about whether
 23 nonabortion providers were providing the required
 24 counseling in Utah?

25 **A.** Yes. There is something that's noted in this

2 Among the pregnancies in which the woman viewed
 3 the ultrasound image, 98.4 percent ended in abortion
 4 compared to 99 percent when women did not view her
 5 ultrasound image, so very small magnitude of difference. A
 6 lot of times a patient is included in the study so that it
 7 is statistically significant.

8 I will say also that the patients who chose to
 9 view the ultrasound were also more likely to have medium or
 10 low decisional certainty. So it may be that these
 11 patients, you know, had some uncertainty and chose to view
 12 the ultrasound in order to be -- get the final information
 13 that they need to really decide not to have the abortion.

14 **Q.** Based on the research you have conducted and your
 15 review of the scientific literature and your clinical
 16 experience, do you have an opinion as to whether the
 17 72-hour mandatory delay is likely to persuade them to carry
 18 to term?

19 **A.** Based on my clinical experience and my review of
 20 the literature, I do not believe that the mandatory 72-hour
 21 delay will persuade people to -- women to continue to
 22 pregnancy. I believe some women may be prevented from
 23 obtaining the abortion care that they want, but I don't
 24 believe that they will be persuaded by being forced to take
 25 that additional time.

Q. You mentioned that in your clinical practice

1 paper. They say that the abortion information session and
 2 a 72-hour consent can be completed at an independent
 3 medical provider, however, very few physicians in Iowa --
 4 in Utah do this counseling.

5 **Q.** Is there also research on the effects of
 6 voluntary ultrasound viewing?

7 **A.** Yes, there is.

8 **Q.** I would like to refer you to learned treatise 26.
 9 Do you recognize this document?

10 **A.** Yes, I do.

11 **Q.** Is this the research you were referring to?

12 **A.** Yes.

13 **Q.** What did this study find?

14 **A.** This study found that -- this is the study by
 15 Gatter that I mentioned and we looked at earlier. And as I
 16 had said I earlier, you know, the majority, 85.4 percent of
 17 women, were certain about their decision to have an
 18 abortion. And for that population of women, choosing to
 19 view the ultrasound did not have any effect on whether they
 20 didn't have the abortion at the facility or continue the
 21 pregnancy. For -- there was, however, small effect for the
 22 7.4 percent who expressed medium or low decisional
 23 certainty. However, I will say the magnitude of this
 24 effect was very small. So a total of 98.8 percent of
 25 pregnancies ended in abortion.

1 patients sometimes are anxious to have the procedure take
 2 place as soon as possible. Is there research about patient
 3 preferences for same day care?

4 **A.** Yes, there is.

5 **Q.** What does it show?

6 **A.** In general it shows that patients prefer to have
 7 abortions as quickly as possible as I -- and they would
 8 like to have the abortion on the same day they present to
 9 the facility if possible.

10 **Q.** I would like to refer you to learned treatise 32,
 11 which I believe we already discussed. This is the Karasek
 12 paper; correct?

13 **A.** Yes.

14 **Q.** Okay. Did this paper -- turn -- directing you to
 15 page 64. Does this study report a percentage of women
 16 preferring same-day abortion care?

17 **A.** Yes, it does. So, again, this was a survey of
 18 women seeking abortion, I believe in Arizona, before the
 19 24-hour delay law and two-visit requirement went into
 20 effect. And they found that the vast majority, 88 percent,
 21 reported that they preferred having, essentially, a one-day
 22 procedure, visit -- the counseling visit on the same day as
 23 the abortion procedure. And only 1 percent said that they
 24 would prefer two days.

Q. And does the study indicate anything about why

1 the 88 percent preferred same-day care?
 2 **A.** They report that women who said that they
 3 preferred one day was significantly more likely to say that
 4 the waiting period would prevent their support person from
 5 coming with them and that the waiting period would cause
 6 them to travel to a different state.
 7 **Q.** In your opinion do two-trip mandatory delay laws
 8 affect how promptly women can access abortion?
 9 **A.** Yes. I believe that these two-visit requirements
 10 and delay laws end up further delaying care beyond the
 11 period of time that is mandated in the law.
 12 **Q.** In your opinion do two-trip mandatory delay laws
 13 affect whether women can access abortion?
 14 **A.** Yes. It is also my opinion that it may prevent
 15 some women from obtaining wanted abortion care.
 16 **Q.** Is it likely to prevent some women from obtaining
 17 abortion care?
 18 **A.** I believe that these laws are likely to prevent
 19 some women from obtaining wanted abortion care.
 20 **Q.** I would like to refer you back to learned
 21 treatise 35, which is the Roberts article that we were
 22 discussing earlier. Does this study find that Utah's
 23 72-hour law delayed patients?
 24 **A.** Yes, it does. I believe that they found on
 25 average women were delayed about eight days between the

2 or more people, including bosses, coworkers, men involved
 3 in the pregnancies, family members, friends, and childcare
 4 providers.
 5 They also asked participants about some of the
 6 hardest parts about the waiting period, and the most common
 7 difficulty that was reported by 22 percent of the
 8 respondents was that they just wanted the abortion over
 9 with. We talked about being powerless to implement their
 10 decision.
 11 Some women were nervous or concerned about the --
 12 just about 11 percent were concerned about the gestational
 13 age of the pregnancy and that during the period of time
 14 where they were delayed that the pregnancy was advancing
 15 and continuing to develop. There were women who had
 16 concerns about the financial aspects and the fact that as
 17 the pregnancy advanced that it's possible that the cost of
 18 the procedure might increase.
 19 Women also reported some things like physical
 20 difficulties of feeling sick with ongoing nausea or other
 21 pregnancy symptoms as well as other logistical challenges.
 22 **Q.** And directing you to page 183 of this study, did
 23 some of the patients report that they were too far along by
 24 the time of their second visit to have an abortion?
 25 **A.** Yes. There were three participants who reported
 26 that they were too far along in the pregnancy to have the

1 information visit and the abortion.
 2 **Q.** And did it report any findings about whether some
 3 patients were seeking an abortion at the three-week mark?
 4 **A.** Yes. I think -- I believe that there was one
 5 woman who was still deciding. I'm sorry. I have to see
 6 where that was.
 7 **Q.** Please take a moment.
 8 If I can refer you, Dr. Grossman, to page 182 in
 9 the result section towards the end. Do you see a finding
 10 of a percentage who are still seeking abortion in the
 11 three-week mark?
 12 **A.** I'm sorry. So 2 percent were still seeking
 13 abortion after the follow-up point.
 14 **Q.** Did this study find other effects besides delay?
 15 **A.** Yes. They reported several other findings. So
 16 there were additional costs related to the information
 17 visits, so participants spent a mean of \$44 on costs
 18 related to the information visit, and this was a
 19 significant amount for many women. Even when women used
 20 their own money, 26 percent said that they had to tell
 21 someone else that they were spending it.
 22 Of the 77 percent that had to tell the man
 23 involved in the pregnancy, the boyfriend or partner, to
 24 make logistical arrangements for the informational visit,
 25 6 percent had to disclose they were seeking abortion to one

1 abortion. Sometimes that meant that they felt that they
 2 were too far along for their own personal comfort, but
 3 sometimes it meant they had actually passed the gestational
 4 age limit for the facility.
 5 **Q.** I would like to refer you now to learned treatise
 6 42. Do you recognize this document?
 7 **A.** Yes, I do.
 8 **Q.** Is this one of the studies that you relied on?
 9 **A.** Yes, it is.
 10 **Q.** Could you please read for the record the lead
 11 author, title, publication, and publication date?
 12 **A.** The lead author is Kari White. Title is "Travel
 13 for Abortion Services in Alabama and Delays Obtaining
 14 Care." It was published in 2017 in *The Journal of Women's*
 15 *Health Issues*.
 16 **Q.** Are you a coauthor on this study?
 17 **A.** I am a coauthor on the study.
 18 **Q.** What did this study look at?
 19 **A.** So for this study we looked at de-identified
 20 billing data from two clinics in Alabama for all the
 21 abortion centers in 2013. And that -- at that time there
 22 was a 24-hour mandatory delay law in the state, and we
 23 looked at some of the factors associated with whether --
 24 looking at whether -- how long women were -- the interval
 25 between when they had their initial visit and the abortion

1 to see whether they were delayed beyond 24 hours and then
 2 looked at factors that were associated with those delays.
 3 Q. And turning to page 4 of this study, what did you
 4 find?
 5 A. So we found that women had a mean of 6.9 days
 6 between their consultation visits and procedure visits.
 7 And I think, interestingly, 12 percent of women returned
 8 between 14 and 53 days after the consultation visit. And
 9 in a multivariable analysis that we did, we found that the
 10 poverty -- so living below 100 percent below the federal
 11 poverty level as well as traveling between 50 and 100 miles
 12 to get to the clinic were significantly associated with
 13 longer delays.
 14 Q. Please turn to learned treatise 31. Do you
 15 recognize this study?
 16 A. Yes, I do.
 17 Q. Is this one of the studies you relied on?
 18 A. Yes.
 19 Q. Please read for the record the lead author,
 20 title, publication, and publication date.
 21 A. The lead author is Ted Joyce. The title is "The
 22 Impact of Mississippi's Mandatory Delay Law on the Timing
 23 of Abortion." It was published in *The Journal for Family
 24 Planning Perspectives* in 2000.
 25 Q. Can you briefly describe the study.

1 A. So this study was looking at the impact of
 2 Mississippi's 24-hour mandatory delay law that requires two
 3 visits, and it looked at vital statistics data to -- kind
 4 of to compare women who were living in Mississippi but
 5 their nearest clinic was located within Mississippi
 6 compared with women living in Mississippi who's nearest
 7 clinic was out of state and looked at a variety of
 8 outcomes.
 9 Q. What are the relevant findings from this study?
 10 A. Well, I think one of the important findings is
 11 showing how this increased later abortion in the state. So
 12 I think if you look at the findings, they say there was an
 13 increase in second trimester abortion of 53 percent from
 14 women who lived in Mississippi and whose nearest clinic was
 15 in the state compared to the control group whose nearest
 16 clinic was out of state, there was only an 8 percent
 17 increase in second trimester abortion. So there was a
 18 significant increase with the -- or that's the main one you
 19 probably want to highlight.
 20 Q. Okay. Is there also a finding about women
 21 traveling out of state after the law went into effect?
 22 A. I'm sorry. I'm going to have to review that. I
 23 mean, they were able to follow the -- they had good data in
 24 the surrounding states so we were able to actually obtain
 25 data on women who traveled out of the state.

1 Okay. Do you want another moment?
 2 A. I'm sorry. If you -- I would have to --
 3 Q. Okay. I will continue. One moment.
 4 Dr. Grossman, we have talked about a number of
 5 studies of the effects of mandatory delay all from states
 6 other than Iowa. Do you think their findings apply in
 7 Iowa?
 8 A. I believe that their findings do apply in Iowa.
 9 I mean, first of all, they're now findings from several
 10 different states, from Utah, Texas, Mississippi, that have
 11 been published. And I believe that there is evidence that
 12 abortion care is constrained here in Iowa and especially
 13 very recently becoming even more constrained. So I feel
 14 like the findings are very relevant.
 15 Q. For women who are close to the cutoff for
 16 medication abortion, could the Act affect how far they have
 17 to travel for their procedure?
 18 A. Yes. Because there are only two counties or --
 19 where there are surgical abortion providers in the state.
 20 If they, you know, prefer to have a medication abortion and
 21 are pushed past that gestational age limit, then they have
 22 travel further.
 23 Q. I would like you to refer to Exhibit 2 in your
 24 binder. Demonstrative Exhibit 2, which should be a map of
 25 Iowa --

1 A. Yes.
 2 Q. -- provider locations.
 3 Looking at that map, are there certain areas of
 4 the state that are of greater concern to you than others?
 5 A. Yeah. Particularly the northern part of the
 6 state, the western part of the state. Those areas would be
 7 living in -- counties in those parts of the state they
 8 would be closer to a provider where -- or a site where
 9 medication abortion is available, and if they're -- if they
 10 wanted a medication abortion and now they're -- because of
 11 the delay they are pushed past the gestational limit, they
 12 will have to travel further.
 13 Q. Is there research on the relationship between the
 14 distance women live from a provider and their ability to
 15 access abortion?
 16 A. Yes, there is.
 17 Q. What does this show?
 18 A. In general, it shows that as the distance to the
 19 nearest provider increases, the abortion rate declines. So
 20 the number of abortions in women living in counties that
 21 are further from abortion providers, decrease is lower.
 22 Q. What does that indicate to you?
 23 A. It indicates that there are barriers. There are
 24 geographic barriers for women to access abortion care when
 25 they live a far distance from a provider.

1 Q. I would like to refer you to learned treatise 25.
2 Is this one of the studies you consulted in forming this
3 opinion?

4 A. Yes, it is.

5 Q. And do you recognize this study?

6 A. I do.

7 Q. Could you please read the lead author, title,
8 publication, and publication date for the record.

9 A. The lead author is Sharon A. Dobie, D-o-b-i-e,
10 and the title is "Abortion Services in Rural Washington
11 State, 1983 to 1984 to 1993 to 1994: Availability and
12 Outcomes." And it's published in 1999 in *The Journal of*
13 *Family Planning Perspectives*.

14 Q. Did you review this study and find its
15 methodology reliable?

16 A. I did.

17 Q. What did the authors look at in this study?

18 A. So they were using official vital statistic data
19 from the state, and specifically they compared the period
20 1983/1984 to a later period, 1993/1994. During -- in
21 between -- during the interim, several abortion providers
22 closed.

23 And one of the findings was, in particular, that
24 rural women had to travel significantly farther and later
25 feared access to abortion care. So in the earlier period,

1 62 percent of rural women traveled 50 miles or more to
2 obtain an abortion compared to 73 percent at a later
3 period.

4 And one of the findings that I think is relevant
5 to this -- to this discussion is that for rural women who
6 then had to travel farther during the later period, that
7 there was a significant increase in later abortion among
8 those patients and there was not among the urban patients.
9 So there was a significant reduction in the proportion of
10 abortions performed prior to 12 weeks, from 92 percent to
11 85 percent. And there was a significant increase,
12 particularly in the later gestational age, so it went
13 from -- the proportion of abortions performed at or after
14 18 weeks increased from 2.1 percent to 4.7 percent.

15 Q. Is this finding consistent with your own research
16 on the effects of travel distance?

17 A. It is.

18 Q. Based on this research, do you have an opinion as
19 to whether the Act will delay women seeking an abortion?

20 A. Yes. It is my opinion that the Act will delay
21 women beyond the required 72 hours.

22 Q. Are there other consequences that follow from
23 delay?

24 A. I mean, there are consequences related to, first
25 of all, whether a woman can obtain her wanted type of

1 abortion, whether they can obtain
2 medication
3 pregnancy advances as well. The -- it's very clear that
4 the risks of complication and death associated with
5 abortion increases as pregnancy -- pregnancy advances.
6 It's more clear that second trimester abortion has
7 significantly higher risks compared to first trimester
8 abortions. But even looking at even an increase in
9 gestational age as small as one week has a measurable
10 increase in those risks.

11 Q. You talked earlier, Dr. Grossman, about evidence
12 that mandatory delay laws are likely to prevent some women
13 from obtaining an abortion. Is there also evidence that
14 increasing travel distance prevents some women from
15 obtaining a wanted abortion?

16 A. Yes, there is evidence.

17 Q. Refer you to learned treatise 27. Do you
18 recognize this document?

19 A. Yes.

20 Q. Is this some of the evidence that you're
21 referring to?

22 A. Yes.

23 Q. Could you please read the name of the document
24 into the record.

25 A. It's -- so I'm the first author on this. It's

1 a -- this is a -- the title is "Change in Distance to
2 Nearest Facility and Abortion in Texas, 2012 to 2014."
3 This was a research letter published in *The Journal of*
4 *American Medical Association* in 2017.

5 Q. And is this research letter peer-reviewed?

6 A. Yes, it is.

7 Q. What were you looking at in this research?

8 A. So we were looking at the Texas vital statistics
9 data for 2012 and 2014. So in the interim, in 2013, Texas
10 enacted House Bill 2 or HB 2, which led to the closure of
11 over half the clinics in the state, and that increased the
12 travel distance for women living in many counties in the
13 state.

14 And so we -- for this analysis we looked at the
15 relationship between this change in distance to the nearest
16 clinic between 2012 and 2014 and changes in the abortion
17 rate, the number of abortions performed to women living in
18 those counties. What we found was that there was a very
19 clear relationship, and the trend in the distance changed
20 and the abortion rate.

21 So if there was simply no change in distance to
22 the nearest clinic between 2012 and 2014, the number of
23 abortions performed in those counties was pretty much the
24 same. But as the distance increased, so for example, if
25 the distance increased from 50 to 99 miles, we observed a

1 about a 36 percent decline in the number of abortions. And
 2 if that decline was over 100 miles, that increase in
 3 distance was over 100 miles, there was about a 50 percent
 4 decline in the number of abortions performed in those
 5 counties.

6 Q. What did that indicate to you?

7 A. That these geographic barriers are significant
 8 and they prevent some women from obtaining a wanted
 9 abortion.

10 Q. Does it matter from a public health perspective
 11 whether women have access to a timely abortion?

12 A. Yes. We already talked about some of the risks
 13 associated with later abortion in terms of the medical
 14 risk, but there are also both medical, physical, and mental
 15 health risks as well as socioeconomic risks associated with
 16 continuing an unwanted pregnancy to term.

17 Q. Does the fact that a pregnancy is unwanted affect
 18 birth outcomes?

19 A. Yes. There is a relationship between the two,
 20 yes.

21 Q. Is there research indicating this relationship?

22 A. Yes, there is.

23 Q. Could you please refer to learned treatise 33.
 24 Doe you recognize this document?

25 A. Yes, I do.

1 membranes, which is another condition which can lead to
 2 premature delivery.

3 Q. What is the medical significance of preterm
 4 delivery?

5 A. Well, the main medical significance is that this
 6 is associated with morbidity and mortality in the neonate.

7 Q. Does access to abortion affect whether women can
 8 formulate and achieve personal goals?

9 A. Yes, that is true, and there's research on this.

10 Q. I would like you to refer to learned treatise 41.
 11 Is this some of the research you're referring to?

12 A. Yes.

13 Q. Did you rely on this research in forming your
 14 opinions?

15 A. I did.

16 Q. Is this research peer-reviewed?

17 A. Yes, it is.

18 Q. Can you please read for the record the lead
 19 author, title, publication, and publication date?

20 A. Lead author is Ushma D. Upadhyay,
 21 U-p-a-d-h-y-a-y. Title is "The effect of abortion on
 22 having and achieving aspirational one-year plans." It was
 23 published in *The Journal of BMC Women's Health* in 2015.

24 Q. Can you briefly describe what the researchers
 25 were looking at in this study?

1 Q. Is this some of the research you're referring to?

2 A. Yes.

3 Q. Please read for the record the author, title,
 4 publication, and date.

5 A. The first author is A.P. Mohllajee,
 6 M-o-h-l-l-a-j-e-e. The title is "Pregnancy Intention and
 7 Its Relationship to Birth and Maternal Outcomes." It was
 8 published in *The Journal of Obstetrics & Gynecology* in
 9 2007.

10 Q. Did you review the methodology of this
 11 publication and find it reliable?

12 A. I did.

13 Q. What finding in the study are you relying on
 14 here?

15 A. So for this study, they relied on data that comes
 16 from the pregnancy risk assessment and monitoring system
 17 which included for the synopsis close to 90,000 women who
 18 gave birth between 1996 and 1999 in 18 states. And they're
 19 able to link data that comes from -- on the -- from the
 20 birth certificate data on the pregnancy outcomes and link
 21 that with a self-administered questionnaire completed
 22 postpartum. And in multivariable analysis that controlled
 23 for other demographic and behavioral factors, they found
 24 that women with unwanted pregnancies had an increased
 25 likelihood of preterm delivery and premature rupture of

1 A. So the data for this study come from the Turnaway
 2 Study, which was a prospective cohort study of women that
 3 were recruited from about 30 abortion facilities across the
 4 U.S., and it included women who were in one of four groups.
 5 So women who presented for abortion just over the facility
 6 gestational age limit and were denied an abortion and went
 7 on to parent the child. Some of the women were denied
 8 abortion but did not end up parenting the child, so they
 9 gave the child up for adoption. And then there were two
 10 other groups, those who presented just under the facility's
 11 gestational age limit and received an abortion as well as
 12 those who presented in the first trimester and received an
 13 abortion.

14 Q. What in the study are you relying on for your
 15 opinion that access to abortions affect whether women can
 16 arrive at and achieve personal goals?

17 A. So these women were recruited, they had an
 18 interview shortly after they sought an abortion, and then
 19 they were interviewed afterwards as well. So for this
 20 study I think they were brought in or were completed six
 21 months later and one year later. And women were asked if
 22 they had a plan for something one year into the future.
 23 These included plans related to education, employment,
 24 change in residence, things like that.

25 And they found that -- so women who obtained the

1 abortion, whether they were denied or not, the term of gestation was 20 percent shorter
 2 abortion or those that were near the facility's gestational
 3 age limit, were over six times as likely compared to those
 4 women who were denied a wanted abortion to report an
 5 aspirational one-year plan. And among those plans in which
 6 achievement was measurable, which happens about 7 percent
 7 of the one-year plans, they found that the women who had
 8 obtained the abortion were significantly more likely to
 9 both have an aspirational plan and to have achieved it
 10 compared to those who were forced to continue the pregnancy
 11 and were parenting.

12 Q. Does access to abortion affect women's
 13 socioeconomic status?

14 A. Yes, it does.

15 Q. How?

16 A. I mean, there's evidence indicating women who are
 17 denied or unable to obtain a wanted abortion are more
 18 likely to be living in poverty several years after the
 19 wanted abortion.

20 Q. Please refer to learned treatise 22. Is this
 21 some of the research you're referring to?

22 A. Yes.

23 Q. Can you read the title and lead author of this
 24 research into the record?

25 A. So the title is "Effect of being denied a wanted

1 A. Yes. This is another abstract that was presented
 2 as part of that same panel, the term of study. The title
 3 of this one is "Effect of abortion receipt and denial on
 4 women's existing and subsequent children." And the author
 5 of that is Diana Foster.

6 Q. What does the researcher find in this study?
 7 What did they report finding in this presentation?

8 A. So they used -- established and validated
 9 measures of child development, and they found some
 10 preliminary results from mixed-affect models. We find
 11 small negative effects on child development and large
 12 negative economic outcomes for children whose mothers were
 13 denied an abortion compared to children whose mothers
 14 received an abortion.

15 As for children born following abortion denial,
 16 we find higher odds of poor maternal bonding, lower odds of
 17 living with a male adult, and higher odds of living below
 18 the poverty level compared to subsequent children born to
 19 women who received an abortion.

20 Q. Do some women attempt to self-induce in the
 21 United States?

22 A. If you mean self-induce an abortion? Yes. There
 23 are some women who do.

24 Q. So do some women self-induce because of barriers
 25 they face accessing clinical care?

1 abortion on women's socioeconomic well-being." The lead
 2 author on this abstract is Diana Foster.

3 Q. Is this research peer-reviewed?

4 A. So this is an abstract that was part of an
 5 invited panel to be presented at the American Public Health
 6 Association's Annual Meeting in 2016. And this is the
 7 process of reviewing a submitted abstract under those
 8 peer-review in the process of selecting panels for
 9 presentation.

10 Q. What specific finding did you rely on in this
 11 study?

12 A. So, again, these are data from the Turnaway Study
 13 that I just described. And the findings that are reported
 14 here in the abstract that I think are relevant are the
 15 following: They say preliminary results indicate that
 16 parenting and raising a child as a result of an abortion
 17 denial reduces full-time employment, increases poverty --
 18 increases poverty, public assistance receipt, and the
 19 chance of living alone with children.

20 Q. Is there a relationship between access to
 21 abortion and outcomes for children?

22 A. Yes, there is.

23 Q. Okay. Please refer to that same learned
 24 treatise. Is there another presentation that you relied on
 25 for that opinion?

1 A. Yes. That is a common reason why women report
 2 that they decided to try to self-induce an abortion.

3 Q. And how do women report that they have attempted
 4 to self-induce an abortion in the United States?

5 A. The methods that women report using to
 6 self-induce an abortion in the U.S. vary quite a bit. Some
 7 women report using medications that can be effective, such
 8 as Misoprostol, sometimes together with Mifepristone, but
 9 that is not obtained from the clinic.

10 And then some women report using methods that are
 11 likely to be ineffective, like herbs, and some women report
 12 using things that are potentially dangerous, like getting
 13 hit in their abdomen, throwing themselves down the stairs.
 14 And, luckily, rarely, women report sometimes inserting
 15 things into the uterus.

16 Q. Have you conducted research on this issue?

17 A. Yes, I have.

18 Q. Have you written on this issue?

19 A. Yes, I have.

20 Q. Please refer to learned treatise 40. Do you
 21 recognize this?

22 A. I do.

23 Q. Is this one of your publications on this subject?

24 A. Yes.

25 Q. Please read the title into the record.

1 **A.** "Texas women's experiences attempting
 2 self-induced abortion in the face of dwindling options."
 3 **Q.** What did you look at here?
 4 **A.** So this was based on in-depth interviews that we
 5 did with 18 women who reported attempting self-induced
 6 abortions in Texas in the prior five years. Some of these
 7 women we recruited at abortion clinics where we surveyed
 8 them and asked them if they had attempted to do this, and
 9 some of these women we recruited in the community in the
 10 Rio Grand Valley. And we interviewed them about their
 11 experience with self-induction and why they decided to do
 12 that, a variety of things, what methods they used,
 13 outcomes, things like that.
 14 I will say regarding your question about the
 15 reasons why women do this, I would say, you know, as we
 16 conversed among these women in Texas, they talked about the
 17 barriers they faced accessing clinic-based care was the --
 18 really the main reason why they were pushed toward trying
 19 to take matters into their own hands.
 20 So they didn't have the money to travel to a
 21 clinic. Some of them talked about how the nearest clinic
 22 had closed and they had to travel farther, and the
 23 financial costs, the logistical barriers were too broad to
 24 overcome, and they thought it was easier for them to do
 25 something on their own. So I would say that those barriers

2 **Q.** Why does ACOG say this is important?
 3 **A.** Because of the health risks that are present when
 4 women don't have access to safe abortion care.
 5 **Q.** Referring you to page 4 of this opinion, does
 6 this ACOG opinion take a position on the factors that limit
 7 access to abortion?
 8 **A.** Yes.
 9 **Q.** What does it state?
 10 **A.** I'm sorry. Can you just repeat the question
 11 again? I'm sorry.
 12 **Q.** What does it state?
 13 **A.** Related to specifically the state-imposed waiting
 14 periods or --
 15 **Q.** No. More generally the factors limiting access
 16 to abortion.
 17 **A.** I mean, they talk about a variety of factors that
 18 limit access to abortion, including the restrictions, legal
 19 limits, that are not necessarily based on evidence. Social
 20 and cultural administrative obstacles to abortion access,
 21 including stigma and violence, lack of abortion providers
 22 in facilities, things like that.
 23 **Q.** Referring you to the bottom of page 4 on the
 24 left-hand column, can you please read into the record the
 25 first sentence in the section on "Lack of Abortion
 Providers and Facilities."

1 in accessing care were major reasons for these women.
 2 **Q.** In your opinion could the Act cause some women to
 3 attempt to still induce an abortion?
 4 **A.** I think that it is possible that some women may
 5 be pushed to do that because of the barriers that they face
 6 accessing clinic-based care.
 7 **Q.** Has ACOG taken a position on mandatory delay
 8 laws?
 9 **A.** Yes, they have.
 10 **Q.** What is that position?
 11 **A.** They are opposed to mandatory delay laws.
 12 **Q.** Could you please turn to learned treatise 21. Do
 13 you recognize this document?
 14 **A.** Yes.
 15 **Q.** Is this the state -- is this ACOG's statement of
 16 its position on mandatory delay laws?
 17 **A.** Yes.
 18 **Q.** Could you please read the title into the record?
 19 **A.** This is a committee opinion from the Committee on
 20 Health Care for Underserved Women titled "Increasing Access
 21 to Abortion."
 22 **Q.** What is ACOG's position on access to abortion?
 23 **A.** ACOG's position is that access to safe abortion
 24 is a critical component to comprehensive women's
 25 healthcare.

1 **A.** I mean, they state that, "Stigma, harassment, and
 2 violence in combination with legal administrative barriers
 3 contribute to a scarcity of abortion services throughout
 4 much of the United States."
 5 **Q.** And referring you several sentences -- sorry --
 6 several paragraphs down in this same section, do you see a
 7 paragraph starting "Further, many religiously affiliated
 8 institutions"?
 9 **A.** Yes.
 10 **Q.** Could you please read that paragraph into the
 11 record?
 12 **A.** "Further, many religiously affiliated
 13 institutions do not offer reproductive health services,
 14 including contraception, sterilization, and abortion.
 15 Mergers of secular hospitals with religiously affiliated
 16 health systems can result in the elimination of previously
 17 available reproductive health services. In other cases,
 18 hospitals cease to offer services not based on legal
 19 restrictions or religious opposition but because of the
 20 associated controversy."
 21 **Q.** And does this same opinion, the same ACOG
 22 committee opinion, discuss mandatory delay laws?
 23 **A.** Yes, it does.
 24 **Q.** Directing you to page 2. What does it say about
 25 these laws?

1 **A.** It says that these laws create -- referring to
2 the state-imposed waiting periods -- these laws create
3 additional burdens, especially for women in rural areas who
4 often have to travel for many hours to reach a healthcare
5 provider.

6 **Q.** Have you reviewed the Act's medical emergency
7 exception?

8 **A.** I have.

9 **Q.** And you're welcome to refer to it. It's in
10 Exhibit 1, and it starts at the bottom of page 3 of this
11 exhibit. Do you have an opinion as to whether this
12 exception is sufficient to encompass all situations where
13 women urgently need to initiate an abortion?

14 **A.** Yes, I do have an opinion. I do not feel like
15 this exception is sufficient. I think there are many other
16 situations where it really would be the best medical course
17 of action to proceed with the abortion as quickly as
18 possible. These include things like a woman may have a
19 medical condition where she's not life-threatening but
20 there is a risk to her health if she continues the
21 pregnancy, even potentially three days or a week longer,
22 and it would be in her best interest to proceed.

23 Another example that comes to mind are women who
24 are victims of sexual assault who are pregnant and seeking
25 abortion. And once they've made the decision to terminate,

2 sexual assault, especially young women, sometimes they
3 don't report this for -- until the second trimester, and
4 again, they might be approaching an upper gestational age
5 limit, so they're particularly anxious to get the procedure
6 done as quickly as possible because they know that they're
7 approaching this limit.

8 **Q.** More generally, do you have an opinion as to
9 whether the Act is consistent with best medical practices?

10 **A.** I do not believe that the Act is consistent with
11 best medical practice. I believe that the standard of care
12 in best medical practice would be able to -- would be to
13 provide the standard informed consent procedure that I
14 described, assess a women's certainty about her decision,
15 and if the women is certain and medically eligible, she
16 should be able to receive that care as quickly as possible,
17 and ideally on the same day that she presents.

18 **Q.** Is this Act consistent with medical ethics?

19 **A.** I believe that the Act is not consistent with
20 medical ethics. It doesn't respect patients' autonomy, and
21 rather than providing the best possible medical care, it
22 produces unnecessary risks and harms in terms of delaying
23 patients and increasing risks in the procedure, potentially
24 putting a preferred abortion method out of reach for a
25 patient and prevents some women from obtaining the care

1 it's really quite cruel to make them continue to suffer
2 continuing this pregnancy when they could medically obtain
3 care that they need.

4 Another example I would say are patients who have
5 a fetus with an anomaly, fetal malformation, and have
6 decided to make the hardest decision to terminate the
7 pregnancy. Often they have already had to wait quite a
8 long period of time because they've had multiple
9 ultrasounds, they've had to wait for confirmatory tests.
10 And once they have made the decision, it's really very
11 carefully -- it's been carefully considered, and I think
12 it's particularly cruel to make them wait another 72 hours
13 or longer.

14 **Q.** Have you had those patients?

15 **A.** I have.

16 **Q.** So have you observed their state of mind when
17 they do face delays in those circumstances?

18 **A.** Yes. I mean, I have certainly observed their
19 state of mind and their preference for obtaining the care
20 as urgently as possible, yes. And, you know, I'm --
21 particularly those who are approaching, you know, the upper
22 gestational age limit, which may be common in patients who
23 have a fetus with a malformation, because sometimes these
24 aren't detected until the second trimester. They have had
25 to wait for confirmatory tests.

1 that they prefer, that they want.

2 **Q.** I'm almost done. I have a few questions about
3 crisis pregnancy centers. Do you have an opinion as to
4 whether pregnancy crisis centers generally offer women
5 accurate medical information?

6 **A.** I do have an opinion. And that opinion is that I
7 do not believe that they offer generally accurate medical
8 information.

9 **Q.** What is this based on?

10 **A.** It's based on talking to my own patients who have
11 gone to crisis pregnancy centers. It's talking -- based on
12 talking to colleagues who have had patients who have gone
13 to crisis pregnancy centers. It's based on reviewing the
14 information that these centers provide on their web site or
15 other materials they that produce, which often has
16 inaccuracies in it.

17 **Q.** Have you reviewed any materials given out by
18 crisis pregnancy centers in Iowa?

19 **A.** I have.

20 **MS. CLAPMAN:** I have Plaintiff's Exhibit 73. Can
21 I hand this to the witness?

22 **THE COURT:** You may.

23 **MS. CLAPMAN:** And, Your Honor, I believe you have
24 the original pamphlet. I think we've offered this into
25 evidence already.

PLANNED PARENTHOOD OF THE HEARTLAND, INC. and JILL MEADOWS, M.D.,
 Petitioners,
 vs.
 KIMBERLY REYNOLDS ex rel. STATE OF IOWA and IOWA BOARD OF MEDICINE,
 Respondents.

LAW NO. EQCE081503
 TRANSCRIPT OF BENCH TRIAL
 Volume II of II
 July 18, 2017

The above-entitled matter came on for bench trial before the Honorable Jeffrey D. Farrell, reconvening at 9:04 a.m. on Tuesday, July 18, 2017, at the Polk County Courthouse, Des Moines, Iowa.

Josie R. Johnson, CSR, RPR
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P R O C E E D I N G S

(The bench trial reconvened at 9:04 a.m. on Tuesday, July 18, 2017.)

THE COURT: Good morning, everyone. Welcome back to the courtroom. We're ready to proceed with day two of the trial of Planned Parenthood of the Heartland vs, I guess now, Kimberly Reynolds et al., and we have Dr. Grossman back on the stand.

DANIEL GROSSMAN,
 called as a witness, having been previously duly sworn by the Court, was examined and testified as follows:

THE COURT: Good morning. You remain under oath from yesterday, and we're ready to proceed with cross-examination.

Was there any follow-up that you needed as far as direct --

MS. CLAPMAN: No.

THE COURT: -- before we start cross? All right. Very good.

Mr. Thompson.

MR. THOMPSON: Thank you, Your Honor.

CROSS-EXAMINATION

BY MR. THOMPSON:
 Q. Good morning, Dr. Grossman.
 A. Hi.

1 Q. We haven't met. I'm Jeff Thompson. None of
 2 the lawyers who represent the State. You talked about a
 3 lot of stuff yesterday, a lot of studies and various
 4 things. So what I would like to do is kind of focus our
 5 discussion today a little bit to two things that I think I
 6 understood you to talk about. One is pretty specific, but
 7 I want to make sure I understand and we understand what it
 8 is you're saying.

9 So you talked yesterday about the medical
 10 emergency exception towards the end of your testimony;
 11 correct?

12 A. Yes.

13 Q. And as I understand your opinion it was that it's
 14 inadequate because there are some women that would be under
 15 circumstances where that is -- puts a particularly harsh
 16 burden on them, I guess, for -- is that?

17 A. That is correct.

18 Q. Is that generally your opinion?

19 A. Yes.

20 Q. And so what I want to focus on -- because
 21 specifics matter in this case -- is in that case when you
 22 say "some women," what do you mean? Can you -- I think you
 23 described the type of circumstances, but is there a
 24 particular patient profile that you're concerned about, and
 25 then the second piece of the puzzle is can you quantify

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2 I can also envision -- and I have had patients
 3 where they're in dangerous social situations with a violent
 4 partner, for example, and sometimes they're even in a
 5 situation where their partner doesn't let them go out of
 6 the house and they have somehow been able to get out so
 7 that they could get to a health care facility to receive
 8 the care that they want, and it's unclear when they're
 9 going to be able to get out again. I would put them also
 10 in this category.

11 In terms of quantifying these -- the number, I --
 12 you know, that's difficult. I would estimate that it's
 13 probably less than 10 percent of all the patients that I
 14 have seen. Maybe -- I mean, because I have worked also in
 15 a hospital setting, I tend to also see more of the patients
 16 that have fetal anomalies. So my practice would actually
 17 be a little more larger, more like 15 percent, but perhaps
 18 on average I would say it's probably 10 percent or less.

19 Q. Okay. Thank you. Let me break that down a bit
 20 just so I understand. So the 10 percent or less applies to
 21 kind of all the categories you just described; right?

22 A. Correct.

23 Q. And to be clear -- and we'll talk about this a
 24 little more in detail later -- your experience -- this is
 25 based on your experience, your clinical experience.

1 that. Do you know how many women in Iowa?

2 A. Yes.

3 Q. So that's an open-ended question. I'm giving you
 4 one. So what do you mean by that?

5 A. Sure. So I was talking about the additional
 6 women for whom I think from a medical perspective I would
 7 see it as my duty to provide the abortion services as
 8 quickly as possible. This includes women who have medical
 9 problems that may not be life-threatening but that put
 10 their health at risk, things like hypertension, renal
 11 disease, those are some examples.

12 I would also put in this category women who are
 13 pregnant after sexual assault and have decided that they
 14 are going to terminate the pregnancy. And I believe that
 15 it's cruel to make them wait an additional 72 hours, or
 16 possibly a week as we've seen in other studies, before they
 17 could obtain an abortion.

18 And I would also put in this category women who
 19 have a fetal anomaly and, you know, who are in -- an
 20 anomaly or fetal malformation, again, who have made the
 21 difficult decision to terminate the pregnancy and often
 22 they've had multiple ultrasounds, so it's -- and they have
 23 had multiple confirmatory tests to reach this final
 24 diagnosis. But I think forcing them to wait an additional
 25 72 hours after receiving counseling and information related

1 There's no study specifically on some of this that you have
 2 referred to, is there?

3 A. Not that I have referred to. There certainly are
 4 studies that report on the proportion of patients in each
 5 of these categories. I don't have all those numbers at --
 6 you know, available at this moment.

7 Q. Understood. And your experience, your clinical
 8 experience, is in San Francisco, California; right?

9 A. Correct.

10 Q. But if I break this down so -- I kind of see two
 11 or three categories here. I'm not going to try and put
 12 words in your mouth, but I'm going to try to break your
 13 less than 10 percent down. So you started with not
 14 life-threatening but medical reasons, which was
 15 hypertension, renal disease. I think those were the two
 16 medical examples. Of the less than 10 percent, how many
 17 are in this medical category that you're talking about?

18 A. Again, just to clarify, I gave some examples. I
 19 was not trying to make a comprehensive list. I didn't
 20 think I was being asked for a comprehensive list of medical
 21 conditions that may put a woman's health at risk. But you
 22 know I -- I'm trying to make an estimate of those all
 23 together. I'm not sure that I can, you know, without
 24 having been asked in advance to review the information, I'm
 25 not sure that I can really break this down any more than

1 that.

2 Q. Okay. Let me try this. Renal disease was

3 something you talked about specifically. How many patients

4 do you think of the people seeking abortions have renal

5 disease to the extent that you would put them in this

6 category?

7 A. I'm trying to say that I think that there is

8 probably a group of women that I feel in my experience

9 should have the abortion as quickly as possible from a

10 medical perspective. I can't quantify it any more than

11 that.

12 Q. Okay. So kind of all medical things as a subset

13 of less than 10 percent based on your medical opinion?

14 A. Well, I'm also putting these women that I say who

15 had a fetal malformation.

16 Q. I'm going to get to those. I'm going to give you

17 an opportunity. We're talking about just your medical

18 opinion right now; right?

19 A. Right. I'm afraid I can't really break this down

20 any further.

21 Q. Perfect. I just wanted to be clear.

22 So the other categories, when you talk about

23 sexual assault, fetal abnormalities, and then people in

24 dangerous social situations, your testimony wasn't that

25 medically it was necessary but that, I think in your words,

2 you talking and talking about your qualifications in mental

3 health or as a psychologist or a psychiatrist. You're not

4 an expert in that area, are you?

5 A. I am not a psychiatrist. I'm not a psychologist.

6 But as a physician -- and I do work with those experts as

7 part of the care team that -- where I provide services. So

8 we do have experts who evaluate and take care of these

9 patients that I provide gynecologic services for, but I can

10 tell you from the basic training that I have received as a

11 physician in assessing patients' mental health status that

12 their mental health status is altered because of this

13 situation that they are in when they're a victim of rape

14 and when they're dealing with a pregnancy with

15 malformation.

16 Q. Okay. Thank you.

17 Have you -- as part of your preparation for your

18 testimony have you reviewed the other expert disclosures

19 and reports?

20 A. I reviewed the expert disclosures that were put

21 forth by the State but not ones from the plaintiffs.

22 Q. All right. And so you've not reviewed the expert

23 disclosure of petitioner's expert Lenore Walker, for

24 example?

25 A. I have not.

Q. Or the deposition that we took of her?

1 it's cruel; right?

2 A. Again, I think it partially depends on what

3 you -- how you define medically necessary. I would see a

4 woman who is at risk of violence from her partner, that

5 that also -- I see that as a medical risk. So I am saying

6 that I think all of these patients that I had mentioned in

7 my medical judgment, I would say these are patients who

8 should have the abortion from a medical perspective as

9 quickly as possible.

10 Q. Okay. And so your comment that it was cruel, was

11 that an expert opinion or was that just your personal

12 opinion?

13 A. It's my clinical opinion, having taken care of

14 these patients and seen the mental stress and anguish that

15 they have gone through as they've made a very difficult

16 decision to terminate a wanted pregnancy, and as I have

17 tried to care for them and seen the stress, the way that

18 they are just -- the way this destroys them and just

19 destroys their life, that they want to take care of this

20 problem as quickly as possible after making a very

21 difficult decision. I see this as an issue of addressing

22 their mental health needs by trying to perform the abortion

23 as quickly as possible.

24 Q. Well, and just to be clear, way back when we

25 started this thing with you, Dr. Grossman, I don't remember

1 A. I have not.

2 Q. Would it surprise you if ultimately that

3 deposition and report reveal that the percentage of women

4 that you've emphasized here, the percentage of women that

5 are pregnant because of rape or sexual assault, it is very,

6 very small as a percentage of the population?

7 A. How small is it?

8 Q. Maybe less than 2 percent?

9 A. That doesn't necessarily surprise me. I would

10 still put them -- as I said, I think that this whole

11 category of women that I mentioned included several

12 different groups of women. Together it was about

13 10 percent or less. So that seems consistent with my

14 assessment.

15 Q. But I -- just to be -- you've had -- you've made

16 specific emphasis on this issue of assault and rape, and

17 would you agree with me based on your experience that that

18 is a very small percentage, relatively, of the women

19 seeking an abortion?

20 A. It's a small percentage. I have sat with those

21 women and heard their horrible stories, and I can tell you

22 that if one of them is being forced by the State to wait an

23 additional 72 hours or longer, I find that really

24 unacceptable as a physician.

25 Q. Right. And I understand your opinion. Again,

1 you're offering your opinion as an expert to the Court to
 2 help the Court decide whether this law should apply to all
 3 Iowa women; right?
 4 **A.** That's correct.
 5 **Q.** And so as I told Dr. Meadows, I'm not minimizing
 6 any individual patient's issues. In fact, she testified
 7 that many of the issues that arise from abortion and even
 8 the statute are very, very patient-specific; correct?
 9 **A.** I don't understand what you mean by
 10 "patient-specific."
 11 **Q.** Unique personal issues like an abusive spouse,
 12 for example. Not common to all women.
 13 **A.** That part of what we're talking about is very
 14 specific. I would say the general harms imposed by this --
 15 by the mandatory delay laws, as has been documented in
 16 other states, the public health concern that I have is
 17 particularly related to the delays that are imposed by
 18 women beyond the mandatory waiting period that increase the
 19 medical risks for patients who are being forced by a state,
 20 essentially, to have a second trimester abortion and the
 21 associated risks with that. That's not particular to a
 22 specific patient profile. That's a risk that is spread
 23 across all women across the state who are seeking abortion.
 24 **Q.** Okay. And we'll get to that. And thank you for
 25 that answer. But right now, you and I are focused on your

2 **A.** I don't know the exact proportion here in Iowa.
 3 **Q.** Thank you.
 4 Let me shift gears, then, to the other component
 5 of your testimony. I think you just reiterated it, but I
 6 understand you to be offering an opinion that the law will
 7 result in delays. Obviously, it's a mandatory delay by
 8 law; correct?
 9 **A.** That is correct; 72 hours.
 10 **Q.** But your opinion is that that will end up
 11 creating delays often in excess of 72 hours; right?
 12 **A.** That is correct.
 13 **Q.** And more importantly what I would like to focus
 14 on is you have told the Court that will result in some
 15 women being unable to obtain an abortion; right?
 16 **A.** I said my -- the concern that I see in this law
 17 is related to the delays that women will face and the
 18 increasing gestational age that the abortion will be
 19 performed, the increase in second trimester abortion, and
 20 the likelihood that some women will be prevented from
 21 obtaining a wanted abortion.
 22 **Q.** Okay. So because -- we just really need to
 23 understand exactly what your opinion is. So you're -- are
 24 you or are you not testifying to this Court that the delay
 25 will cause some women not to be able to obtain an abortion?

1 testimony about this focused issue about the medical
 2 emergency exception; right? That's what we were talking
 3 about?
 4 **A.** That is what we are talking about.
 5 **Q.** And you're talking about a subset of women that
 6 you thought were going to be particularly affected by the
 7 way that that medical emergency exception was crafted;
 8 correct?
 9 **A.** Correct.
 10 **Q.** And so all I'm trying to get you to be specific
 11 about for the Court is how many people are in these
 12 categories, and you've agreed with me that the example of
 13 sexual assault or pregnancies from rape is a very small
 14 percentage; correct?
 15 **A.** Again, I have not reviewed the data. I don't
 16 know if there is published data about this in Iowa. First
 17 of all, it's also -- this is also a difficult thing to
 18 assess. Women -- there's a great deal of stigma related to
 19 sexual assault, obviously, and this may be underreported.
 20 And sometimes it's -- patients will tell us as a clinician,
 21 we're meeting with the patient in the context of this
 22 medical encounter, and it may not be reported in the
 23 survey. So I have not reviewed the disclosure. If you
 24 would like me to review it now, I'm happy to, and we can
 25 have some further discussion about it.

1 **A.** I believe I just said that those are my two
 2 concerns.
 3 **Q.** Okay. So then I want to drill down, like we just
 4 did a minute ago when you say "some women," what does that
 5 mean? So when you say "some women," can you describe for
 6 me so I understand your opinion what are the
 7 characteristics of these women, this group of women, "some
 8 women," that will cause them to be affected in this way by
 9 the statute?
 10 **A.** I'm not sure that I can say specifically what are
 11 the -- describe these specific women, because I don't think
 12 we have good data on that. I can tell you that the types
 13 of women that we know face particular barriers accessing
 14 abortion care include low-income women, women who travel
 15 long distances or live far from the nearest abortion
 16 provider. And, I mean, I talked about some other
 17 categories of women who are victims of intimate partner
 18 violence, adolescents.
 19 Certainly the research that we did in Texas
 20 looking at this, we saw that women who were low income and
 21 who lived more than 50 miles from the abortion clinic
 22 were -- reported that it was particularly difficult for
 23 them to get to the extra visit that was required before
 24 their abortion appointment.
 25 **Q.** Okay. So, I mean, but there's no subcategory of

1 women that you can describe more specifically that are the
 2 women that you're saying are going to be denied access to
 3 an abortion?
 4 **A.** More specifically than what I just said?
 5 Particularly low income and those who live farther away
 6 from the facility. I can't say anything more than that.
 7 **Q.** Okay. And can -- so the second issues is can you
 8 quantify it at all? So this "some women" subset of all
 9 women, how many lowans are you talking about?
 10 **A.** You know, I can give you a range of what has been
 11 seen in the other studies, and that's a range of, I would
 12 say, from about 2 percent to 10 percent decline in the
 13 abortion rate that's been seen in other states when
 14 mandatory delay laws have gone into effect.
 15 **Q.** Okay. So data you're relying upon are studies
 16 that show a decline in the abortion rate after waiting
 17 periods are put in place?
 18 **A.** That's correct.
 19 **Q.** And they're the studies you talked with the Court
 20 yesterday about?
 21 **A.** Correct.
 22 **Q.** Do any of those studies make a specific finding
 23 that women were denied access to abortion because of the
 24 waiting period?
 25 **A.** I'm -- can you repeat the question?

2 conclusion from that study.
 3 **Q.** And you're familiar -- I mean, generally
 4 speaking, are you familiar with -- there's the -- that
 5 article, there's a series of articles by the same authors;
 6 correct?
 7 **A.** Correct.
 8 **Q.** Based on the same data set; right?
 9 **A.** Correct.
 10 **Q.** And are you familiar with the Seventh Circuit's
 11 view of that -- those studies and this data set?
 12 **A.** I am.
 13 **Q.** And so the Court rejected them as being
 14 speculative, unreliable, and something that could not be
 15 extrapolated in Indiana; correct?
 16 **A.** I'm not that familiar with the details of the
 17 Court's ruling, but that is my understanding.
 18 **Q.** Right. Well, in part because they did what you
 19 just did this morning, which is they drew the conclusion
 20 that there was a reduction in rate, and then -- and then
 21 argued in court that it showed that people were prevented
 22 from having an abortion when the study didn't even show
 23 that; right?
 24 **A.** The -- I mean, the study showed a reduction. It
 25 does not -- it cannot prove causality, and they were not --

1 **Q.** Do any of the studies that you cited yesterday
 2 make a specific finding, conclusion, that women were denied
 3 access to an abortion because of the waiting period?
 4 **A.** There --
 5 **Q.** It's a yes or no question, sir.
 6 **A.** When you say -- there is a finding in the Roberts
 7 study.
 8 **Q.** So there's the one study. I'm going to talk
 9 about Roberts, but what else?
 10 **A.** I mean, there are study -- the -- one of the
 11 Joyce studies from Mississippi, I mean, also makes the
 12 finding that there was a significant decline in the
 13 abortion rate that was observed after, I mean, controlling
 14 for other factors.
 15 **Q.** Okay. I just want to be clear. You're under
 16 oath. We're going to talk about this in detail. Are you
 17 telling me the Joyce study that you cited yesterday makes a
 18 specific finding that the reduction in abortion rate was
 19 because women had been denied access to abortion because of
 20 the waiting period?
 21 **A.** The finding is not -- a conclusion cannot prove
 22 causality in this study.
 23 **Q.** Even if there was one. But is there one in that
 24 study? Do the authors conclude that the reduction in
 25 abortion rate was a result of people being denied access?

1 they didn't interview women, so they can't prove that they
 2 were denied access.
 3 **Q.** Right. They didn't ask them why they didn't come
 4 back, did they?
 5 **A.** Well, they were using official vital statistics,
 6 so they didn't have access to women.
 7 **Q.** And one of the things about the Roberts study
 8 that you and I will be going to talk about later is they
 9 did ask women why they didn't come back; right?
 10 **A.** They did.
 11 **Q.** They did. And we talked about -- we'll talk
 12 about it again. 8 percent of them said it's because they
 13 changed their mind; correct?
 14 **A.** No. 2 percent changed their mind.
 15 **Q.** We're going to talk about that too.
 16 **A.** Okay.
 17 **Q.** So anything else? Roberts and Joyce.
 18 **A.** In terms of what? I'm sorry.
 19 **Q.** Of this testimony, this opinion that you have
 20 that the delay causes people to not be able to obtain an
 21 abortion?
 22 **A.** I think that the other important factor here that
 23 is specific in Iowa is the fact that this delay will push
 24 women past their eligibility for medication abortions and
 25 will affect some women, particularly those in the western

1 to be a finding in the study, and like the authors of the
2 study need to make a finding that's relevant to an issue
3 we've got here; right? I mean, they've got to actually
4 conclude something; right?

5 **A.** And they have concluded something.

6 **Q.** Well, we're going to talk through it. But you
7 need a finding to support your opinion, and then that
8 finding itself needs to be reliable and valid; right? You
9 wouldn't rely upon something that's not valid and reliable
10 or biased, for example, would you?

11 **A.** That's correct.

12 **Q.** And then assuming all those things are true, then
13 you have also got to be persuaded or persuade Judge
14 Farrell, frankly, that it's appropriate to extrapolate the
15 experience of women in Alabama or Texas or California to
16 women in Iowa; right?

17 **A.** Correct.

18 **Q.** And you and I talked about this Seventh Circuit
19 decision and the reference to the Joyce data set. I mean,
20 this was the particular issue that the Court had with that
21 in rejecting the idea that you can just transport things
22 from Mississippi and say they're going to apply to Indiana
23 in that case; right?

24 **A.** I haven't read the Court's ruling, so I can't
25 make an opinion about that.

1 **Q.** That's true. But you're here and you're relying
2 in this court of law on that same data set; correct?

3 **A.** I mean, that's one of several papers that I have
4 referred to.

5 **Q.** But you would agree -- let's kind of back away
6 from this, then. You would agree with me that when we
7 start talking about whether it's clinical experience,
8 frankly, or these studies, that there are differences in
9 patient populations?

10 **A.** There may be some differences in patient
11 populations, but I think when we're seeing this similar
12 finding in multiple studies that related to particularly
13 the additional delay that women are facing and increase s in
14 second trimester abortion, that's a finding that we're
15 seeing in multiple studies related to multiple factors,
16 both related to increase in distance women are having to
17 travel and related to the additional obstacles they face
18 because of mandatory delay. In multiple settings, I think
19 that that's reasonable to conclude that that's likely to
20 occur here.

21 **Q.** Okay. But you would agree -- you've reviewed the
22 literature, so you would agree with me that different
23 characteristics of a data set of the cohort can relate to
24 delay for example; right?

25 **A.** I don't understand the question.

2 there's a correlation between race and the amount of the
3 delay. Are you familiar with that?

4 **A.** Can we look at the study?

5 **Q.** Well, we will, but does that ring a bell?

6 **A.** I can't remember which particular study that
7 you're talking about, so --

8 **Q.** And then characteristics like age in a cohort of
9 women seeking an abortion can have an impact on things like
10 certainty; right?

11 **A.** Yes.

12 **Q.** Okay. And, I mean, there's a lot of -- all I'm
13 trying to get to is as we look through these things that it
14 matters the extent to which Iowa and lowans, and
15 particularly Iowa women, differ from the subjects of
16 studies in other states under other circumstances.
17 Wouldn't you agree with that?

18 **A.** I do agree with that. In fact, that's why I put
19 something that's specifically from Iowa documenting how
20 women in this state live significantly farther than the
21 average American woman seeking an abortion to the nearest
22 clinic. So women are already in Iowa facing more extreme
23 geographic barriers accessing care than the average
24 American woman. So I do believe that there are some
25 factors that may be specific to the situation here in Iowa.

1 **Q.** Okay. And I think -- but just remind me. I
2 think you told the judge yesterday what the national
3 average was for distance. Do you remember what that number
4 was?

5 **A.** I don't think we actually said that. I think
6 what I did say yesterday was that 17 percent of women live
7 50 miles or more from the nearest abortion facility
8 nationally.

9 **Q.** Right. And it's your opinion that Iowa is
10 differently -- not similarly situated, that there's a
11 greater lack of access; is that your opinion?

12 **A.** A higher proportion of women live farther from
13 the nearest clinic depending on whether we look at it by a
14 population of women in reproductive age in this state and
15 looking at distance to the nearest clinic or if we look at
16 actual abortion patients.

17 **Q.** But the data sets that you're familiar with from
18 Iowa are the data sets that you looked at, for example, for
19 the telemed article that you talked about yesterday and the
20 other two or three articles that you published -- or that
21 you have worked on; correct?

22 **A.** I mean, I have worked with the data from, you
23 know, the official vital statistics data as well from Iowa.

24 **Q.** Well, I mean, Iowa-specific cohorts that we're
25 talking about.

1 **A.** Mm-hmm. E-FILED 2020 JUN 23 12:43 PM JOHNSON - CLERK OF DISTRICT COURT
 2 **Q.** Is it one cohort that led to all of those
 3 publications, or were there a number of specific different
 4 cohorts?
 5 **A.** I mean, there were different periods of time in
 6 which we were collecting data.
 7 **Q.** Right. And in those studies that -- the Iowa
 8 studies that you were talking about, I think -- were all of
 9 them done in coordination with Planned Parenthood here in
 10 Iowa?
 11 **A.** No, not all of them.
 12 **Q.** Okay. Which ones weren't?
 13 **A.** The one that I mentioned that was done with
 14 looking at long-acting reversible contraception and the
 15 abortion rates in the state. That one was not done -- I
 16 mean, some of the data was from Planned Parenthood, but
 17 there were other sources of data that were used in that
 18 analysis.
 19 **Q.** All right. On at least some of them, like the
 20 one we saw yesterday, Planned Parenthood folks were
 21 actually coauthors on the study; is that right?
 22 **A.** I have to -- can I check just to -- can you tell
 23 me which?
 24 **Q.** On the effectiveness and acceptability study?
 25 **A.** Which tab is that one?

2 eight. Is that consistent with your understanding of
 3 Planned Parenthood's --
 4 **A.** I know that the number has increased. I don't
 5 know the specific numbers.
 6 **Q.** Right. But they decreased before the Act that's
 7 at issue here? Those decisions were made in the past;
 8 right?
 9 **A.** Correct.
 10 **Q.** And so, for example, unlike the work you did in
 11 Texas, which was studying a bill that regulated the clinics
 12 and actually forced the closure of clinics, here this bill
 13 doesn't force the closure of any clinics; correct?
 14 **A.** That's correct. I don't believe I have said
 15 that. I have not offered the opinion that I believe it is
 16 closing the clinics.
 17 **Q.** Well, it is, but, I mean, we're also -- and we're
 18 going to talk about factors. You've also just testified
 19 that the distance from -- for patients to travel in Iowa
 20 was a long way and that that's part of this analysis. But
 21 to a large extent, that the distance traveled before this
 22 Act was enacted was as a result of decisions, independent
 23 decisions, made by Planned Parenthood about how to conduct
 24 their business; right?
 25 **A.** I can't offer an opinion about that. I'm

1 **Q.** 28.
 2 **A.** Yes. There was a Planned Parenthood coauthor on
 3 that one.
 4 **Q.** Well, and you've mentioned a little bit about
 5 accessibility, and, I mean, you were previously an expert
 6 in a prior case that we had in Iowa that dealt with
 7 telemedicine; correct?
 8 **A.** I submitted an expert report for that.
 9 **Q.** Right. At that time Planned Parenthood had 17
 10 locations in Iowa; right?
 11 **A.** I'm not --
 12 **Q.** At least at the time of the study?
 13 **A.** I believe.
 14 **Q.** Page --
 15 **A.** Yes.
 16 **Q.** -- 28, page 297.
 17 So at the time of the study in 2008, Planned
 18 Parenthood had 17 clinic sites; right?
 19 **A.** Yes.
 20 **Q.** And then Dr. Meadows we talked yesterday that in
 21 2013 they were down to 15; correct?
 22 **A.** I didn't hear Dr. Meadows' testimony, so I don't
 23 know for sure.
 24 **Q.** You know that as of the time just prior to the
 25 effective date of the statute, before the statute was

1 documenting what the situation is now in terms of the
 2 distance that women have to travel. It's significantly
 3 longer than the national average, and I'm very concerned
 4 that the sum of all of these barriers, the geographic
 5 barriers, being forced to make two visits, the additional
 6 costs associated with that additional visit, are going to
 7 be particularly burdensome for some patients.
 8 **Q.** Understood. If you -- you've got -- don't you
 9 have Exhibit 28 --
 10 **A.** I do.
 11 **Q.** -- open?
 12 So why don't you just flip to page 300 on Exhibit
 13 28, because I'll -- and just to be clear, this isn't a
 14 study about delay or a study about denial of access, is it?
 15 **A.** This research that we did about telemedicine in
 16 some ways was the reverse. It was looking at, in some
 17 ways, what happens when access is improved to
 18 telemedicine -- through telemedicine access is improved to
 19 early medication abortion. And so this was one of the
 20 studies. There was another study that we published in *The*
 21 *American Journal of Public Health* that specifically looked
 22 at what the impact was related to measures of access.
 23 **Q.** Got it. And in particular I just want to look at
 24 it for a second since you've got it open, because it shows
 25 on Table 1, page 300, that characteristics of the

1 population, the patient population that you studied, correct?
 2 correct?
 3 **A.** Correct.
 4 **Q.** And because I want to talk a little bit as we go
 5 through these other studies about the differences between
 6 Iowa women seeking abortion and women seeking an abortion
 7 in other states. All right? And so here, you know, we
 8 look at age. We look at race. There's different factors.
 9 But there are things that are kind of easier to pinpoint.
 10 So here in Iowa, I mean, we're here in Iowa. 82 percent of
 11 the cohort that presented was white; right?
 12 **A.** But this study only focused on patients who were
 13 obtaining medication abortions. It is not on abortion
 14 patients overall.
 15 **Q.** I understand that. But this is -- this is the
 16 data set that you have, and you've also offered opinions
 17 that deal with people who want and prefer a medication
 18 abortion; right?
 19 **A.** Yes.
 20 **Q.** In fact, the crux of your delay argument is the
 21 timing issue about people who prefer medication abortion
 22 and then because in your opinion would be delayed, they
 23 would be unable to obtain one; right?
 24 **A.** Incorrect. That is not the crux of my delay
 25 argument. The crux of my delay argument, I would say, is

1 between the data in this paper and the other paper.
 2 **Q.** So you're not comfortable saying that this set of
 3 Iowans seeking an abortion because it's a specific type of
 4 abortion can translate to Iowans generally seeking an
 5 abortion, that you're concerned that this is valid as to
 6 Iowans generally? Is that what you just said?
 7 **A.** This is a very small cohort study. I mean that
 8 we were -- it was aimed at looking at certain -- we were
 9 trying to collect certain data about the -- compared to the
 10 telemedicine model to in-person provision of medication
 11 abortion. So it only includes medication abortion
 12 patients, which are -- so I believe that this is -- gives
 13 us a snapshot of what women in Iowa seeking medication --
 14 obtaining medication abortion look like, but it's not a
 15 snapshot of what women obtaining abortion in Iowa look
 16 like. If you want to look at that, I would like to have my
 17 paper here from *The American Journal of Public Health*,
 18 which includes all abortion seekers.
 19 **Q.** Well, let's take that first. First, I just want
 20 to ask, but based on everything you just said,
 21 notwithstanding everything you said, frankly, you're asking
 22 this Court -- these are Iowans, at least; right? These are
 23 Iowans; right?
 24 **A.** Yes. This study was performed in Iowa. But just
 25 to clarify, there were also some women who traveled out of

1 twofold. One is that.
 2 The second thing is that there is for all women a
 3 delay, and they're all being shifted later in pregnancy.
 4 And some number of these women are going to be pushed into
 5 the second trimester. With every week, additional week of
 6 gestation, there are measurable increases in medical risk.
 7 And once women then cross the -- that border into the
 8 second trimester, in addition to medical risk, they also
 9 face additional costs, and it may be harder to find second
 10 trimester abortion providers.
 11 So those are the points I was trying to make
 12 about the delay. It's not just related to medication
 13 abortion.
 14 **Q.** Well, so you don't think that this cohort is
 15 representative of Iowa women that could be affected by this
 16 statute?
 17 **A.** If you would like me to refer to research that I
 18 have done and data sets that I have reviewed that were more
 19 representative of Iowa women, I would prefer to refer to
 20 the paper that I published in *The American Journal of*
 21 *Public Health* that looked at all abortion patients, using
 22 both data from the official vital statistics data and data
 23 from Planned Parenthood. It's a much larger data set.
 24 This is a small cohort that's only focused on medication
 25 abortion. I would not feel comfortable making comparisons

1 state probably in this cohort too.
 2 **Q.** True. But the other studies that you talked
 3 about, you and I just exchanged and we're going to talk
 4 about later, are based on cohorts of women from different
 5 states, from, literally, from Alabama, from Texas, from --
 6 and you're asking the Court to rely upon that data and
 7 arguing that you can infer from that data to broad
 8 characterizations about how the law will impact Iowa women;
 9 right? I don't get that.
 10 **A.** I think if you -- this is a very answerable
 11 question --
 12 **Q.** Well, answer it.
 13 **A.** -- but I would need to have the data in front of
 14 me. There's an answerable question about how does the
 15 population of women in Iowa who are seeking an abortion
 16 compare nationally or compare to the specific states where
 17 we looked at this, the representative data. I can tell you
 18 the one thing I did look at specifically was their distance
 19 to the nearest clinic, and on that measure --
 20 **Q.** You talked about that twice --
 21 **A.** Right.
 22 **Q.** -- when I haven't even asked about it yet.
 23 But I want to go back to the -- to this point
 24 about the data set. Did you testify about this data set
 25 yesterday in your direct examination, about this all-in

1 Iowa data set that you think is the best data set? Was
 2 that part of your testimony yesterday?
 3 **A.** I did not say in my testimony this is an all-in
 4 data set that is representative of all the women seeking
 5 abortion in Iowa. I said that this is a paper -- an
 6 analysis of women seeking medication abortion that
 7 highlighted A, how they had strong preference for
 8 medication abortion, and B, how they had a strong
 9 preference for obtaining the abortion as early as possible.
 10 **Q.** That -- but my question is: Did you testify
 11 yesterday about the article that you're talking about now
 12 that you would like to have in front of you?
 13 **A.** No, I did not.
 14 **Q.** Right. Is it in the exhibit set?
 15 **A.** No.
 16 **Q.** Okay. So, I mean, it wasn't part of your direct
 17 examination, and I don't have it. And so for now, if
 18 you'll indulge me, I'm going to use this data that you did
 19 put before the Court, and we have to at least compare how
 20 Iowa cohorts look to other states. Okay?
 21 **A.** I believe that's an inappropriate comparison, but
 22 I can do that.
 23 **Q.** Okay. You don't think it's important for the
 24 Court to understand the similarities or the
 25 dissimilarities?

1 **A.** I think that it is important, and the most -- the
 2 measure, as I have said, the measure that I thought was
 3 most relevant was related to distance. And that was the
 4 data that I put forth in my testimony.
 5 **Q.** Okay. Fair enough. So let's move on.
 6 Let's talk a little bit about the big picture,
 7 then. We are familiar, generally, with abortion statute --
 8 or abortion statistics and rates throughout the United
 9 States; is that correct?
 10 **A.** Yes.
 11 **Q.** Okay. So -- and we talked with Dr. Meadows a
 12 little bit about this. But the abortion rates in the
 13 United States peaked around 1990; is that your
 14 understanding?
 15 **A.** I know that they have been declining recently. I
 16 can't say specifically the year that they peaked.
 17 **Q.** Okay. But the trend has been downward; correct?
 18 **A.** That is correct.
 19 **Q.** On a nationwide basis?
 20 **A.** That is correct.
 21 **Q.** And the Iowa rate -- so you may not know this,
 22 but I will represent to you the Iowa rate peaked in 2006,
 23 which obviously is later than 1990, but that was the peak
 24 in Iowa. Are you familiar with that at all? Have you
 25 looked at Iowa rates?

1 **A.** I have, and I'm generally familiar with that,
 2 yes.
 3 **Q.** Okay. And like the national numbers, the rate in
 4 Iowa has also been decreasing; right?
 5 **A.** That is correct.
 6 **Q.** And then the 2014 numbers, which are the ones
 7 that are kind of most available right now, the U.S. rate --
 8 and rate, so we're using the same terminology, is the
 9 number of abortions per 1,000 women of childbearing age;
 10 right?
 11 **A.** Correct.
 12 **Q.** Okay. So the rate in the United States in 2014
 13 was 14.6. Does that sound right?
 14 **A.** That sounds generally correct.
 15 **Q.** Generally, right. I'm not trying to pin you
 16 down. I'm just trying to frame this. Iowa's was 7 and a
 17 half, which is about half of the national rate; right?
 18 Does that make sense?
 19 **A.** I know it's quite a bit lower. I don't know the
 20 specific numbers.
 21 **Q.** And in 2015 actually decreased down to 6.8, which
 22 is, again, substantially below the national average. In
 23 Iowa, are you familiar with the fact that in 2014 both the
 24 number, the rate and the ratio, was the lowest number since
 25 2004?

1 **A.** I did know that the rate was low, yes.
 2 **Q.** All right. So when we look at Iowa's rate, the
 3 national rate -- do you know what the rate in California is
 4 where you practice?
 5 **A.** I can't give you a specific number.
 6 **Q.** How about 19 and a half percent? Does that sound
 7 about right?
 8 **A.** It's not a percentage. It's the rate.
 9 **Q.** I'm sorry. 19 and a half per thousand?
 10 **A.** Yeah.
 11 **Q.** Does that sound accurate?
 12 **A.** That sounds probably correct, yeah.
 13 **Q.** All right. I got it all the -- so Iowa is half
 14 the national rate, California is substantially above the
 15 national rate; right?
 16 **A.** Correct.
 17 **Q.** And so, I mean, not only do we have, you know,
 18 differences in patient profiles just demographically, we
 19 have differences in the demand for and selection of
 20 abortion as an option in states; correct?
 21 **A.** That is correct. I -- also my understanding is,
 22 you know, Iowa has always been a really great success story
 23 because of the investment that has been made here in
 24 expanding access to the most effective contraception and
 25 really has resulted in a reduction in unintended pregnancy

1 and a reduction in abortions. It's a quite a big success.
 2 My understanding is that investment has decreased in recent
 3 years and also with the closure of clinics that are
 4 providing family planning services, I'm concerned that the
 5 historic lows may not predict the future.
 6 Q. Okay. But, I mean, from that answer, I
 7 understand -- I mean, access to contraception is yet
 8 another factor that could contribute to the reduction in
 9 the abortion rate; right?
 10 A. That is correct.
 11 Q. And so in your Texas study, for example, where
 12 you talk about abortion rates before and after House Bill
 13 62 or 82, whatever it was, you controlled for
 14 contraception; right?
 15 A. It was House Bill 2.
 16 Q. House Bill 2. Thank you.
 17 A. It -- it's not so much that we were able to
 18 control for it in the analysis, but in the -- in the
 19 setting in Texas because of the closure of so many family
 20 planning clinics, the reduction in hours that were
 21 documented through other research from me and others that
 22 it is highly unlikely that the reduction in the abortion
 23 rate that he saw there was related to improvements in
 24 contraception, which is different from what's happened here
 25 in Iowa.

1 Q. But you didn't specifically control for it in
 2 your analysis?
 3 A. That's correct.
 4 Q. And just like you didn't -- neither did Joyce or
 5 the authors in Mississippi. They didn't control for that
 6 factor as a potential reason why abortion rates had
 7 decreased; right?
 8 A. We didn't. No, Joyce did not control that.
 9 Q. So why don't you turn to Exhibit 26, which was
 10 something you talked about yesterday a little bit, the
 11 Gatter study; right?
 12 A. Yes.
 13 Q. And I want to talk about it in a couple different
 14 ways. I mean, first of all, this is -- this is a big
 15 cohort, what they described as a large urban abortion
 16 provider in 2011; correct?
 17 A. Correct.
 18 Q. And I can't tell. Looks like it was in the
 19 Los Angeles area; is that also correct?
 20 A. I believe so, yes.
 21 Q. All right. And so if we talk about your practice
 22 and your experience, is the patient population that you see
 23 similar -- more similar to this population or to an Iowa
 24 population?
 25 A. It's similar to this, I would say.

1 Q. Right. And so you would agree with me
 2 that there are differences in both the demographics and
 3 also the attitudes of different sets of people; right?
 4 That's why you study things?
 5 A. Yes, I would agree with you.
 6 Q. And so based both on location and also the
 7 cultural issues that flow from where you live can affect
 8 people's attitudes and how they approach healthcare, for
 9 example; right?
 10 A. Yes, I think that's correct.
 11 Q. And so I think yesterday you pointed to this in
 12 particular, I think when you were having -- we were having
 13 a discussion, or you and your -- and the lawyer were
 14 talking about this idea of decisional certainty and being
 15 firm in the decision and, you know, being committed,
 16 whatever the words that you were using; right?
 17 A. I don't understand the question, your question.
 18 Q. This certainly was an issue when you were talking
 19 about this study?
 20 A. Yes.
 21 Q. And the reason -- it was a bad question, but one
 22 of the things that happened is we talked -- you look at
 23 different studies and people use different terms, you know.
 24 Decisional certainty, you measure the certainty or measure
 25 the uncertainty. There's different ways to approach the

1 same question; right?
 2 A. Well, there were validated scales for measuring
 3 decisional certainty.
 4 Q. Exactly. But let's just look really quickly at
 5 the demographics. If you turn to page 84 of Exhibit 26,
 6 you've got a description of the characteristics of the
 7 15,000 visits, and I couldn't quite tell what that meant.
 8 There were 15,000 different women, but I think they
 9 selected that, so I think this is individual women in the
 10 Table 1; right?
 11 A. I believe that these are visits, yes, and it is
 12 possible that women might have had multiple visits.
 13 Q. Okay.
 14 A. So if the pregnancy is multiple visits, we stop
 15 at the final visit.
 16 Q. I just wasn't sure. It's not real clear, but I
 17 don't think they counted people twice, but maybe they did.
 18 But if you look at it, we see just a couple things, you
 19 know. They talk about age, the distribution of age, and
 20 you have said that you've done kind of a more broad
 21 examination of Iowa women, there's a data set that's
 22 better. So all I've got is Exhibit 28, but when you look
 23 at age distribution of Exhibit 26, does it look roughly the
 24 same as what your experience is in Iowa?
 25 While you're looking, the other issue you talked

1 about on this study was really the decision to view an
 2 ultrasound and whether it changed a result; right?
 3 **A.** Are you talking about Gatter?
 4 **Q.** Yes. No. Yeah. Gatter.
 5 **A.** Yes.
 6 **Q.** Exhibit 28 -- 26?
 7 **A.** Mm-hmm. I would say that I'm just eyeballing.
 8 The age distribution seems fairly --
 9 **Q.** Pretty close?
 10 **A.** Pretty close.
 11 **Q.** Okay. How about race?
 12 **A.** Certainly there's a larger proportion of Hispanic
 13 women in the Gatter study than I would estimate are seen
 14 here in Iowa.
 15 **Q.** Right. Well, in Gatter, the cohort is 17 percent
 16 white, right, and in Exhibit 28 -- I understand you think
 17 it is a limited sample, 82 percent to 85 percent white. So
 18 higher than 80 percent, right, in Exhibit 28, which is the
 19 Grossman study of Iowa women related to telemed? So a big
 20 difference in race; right?
 21 **A.** Correct.
 22 **Q.** And then what about previous pregnancies? Does
 23 that look pretty similar to?
 24 **A.** That's a little bit -- the Gatter study is a
 25 little bit higher than the national. Well, actually, I'm

1 not sure this is actually pregnancy, not that they had a
 2 live initiative birth. So that actually seems fairly
 3 comparable, certainly with national data, I would say.
 4 **Q.** Fair enough.
 5 If -- and then we go down this particular case --
 6 or this particular study, you cited for something related
 7 to what you -- what this study characterizes as decisional
 8 certainty. Isn't that what we talked about with this
 9 study?
 10 **A.** That's correct.
 11 **Q.** And so when you look at these numbers, it's
 12 your -- if I understand your testimony yesterday, that this
 13 is something that you believe would reflect what you see
 14 similarly in other states, including Iowa?
 15 **A.** The -- I'm sorry. I don't understand the
 16 question.
 17 **Q.** I mean, I don't think we have a data set on
 18 decisional certainty for Iowa, do we?
 19 **A.** I'm not aware of any.
 20 **Q.** So you're asking the Court to look at this study
 21 and somehow give it weight as to what the decisional
 22 certainty might be in Iowa; correct? So I'm asking you:
 23 Does this look, based on your experience, on what you would
 24 expect to see in Iowa?
 25 **A.** Well, first of all, I would say that in analysis

1 when they also looked at the association between the
 2 demographic factors, including race, which I think was the
 3 only one that we -- race or ethnicity is the only one we
 4 have really identified is very different from Iowa. There
 5 was no association between race ethnicity and continuing
 6 the pregnancy in this study.
 7 **Q.** Okay. Want to turn to page 82 -- I'm sorry -- 83
 8 of this study. If you look kind of the -- in the results
 9 column about a third of the way down, there's a discussion
 10 and a -- follow along with me. So it's about halfway
 11 through the second paragraph. It says, "The vast majority
 12 of women (85.4 percent) were certain about their decision
 13 to have an abortion, but 7.4 percent expressed medium or
 14 low decision certainty;" right? Is that -- did I read it
 15 right so far?
 16 **A.** Mm-hmm.
 17 **Q.** You told the Court about that yesterday. There's
 18 also, like, 7 percent of missing people; right? So, like,
 19 if you look back at the chart, there's 85 percent high
 20 certainty, 4.74 middle or low certainty, and 7.2 percent we
 21 just don't know how certain they were; right?
 22 **A.** Correct.
 23 **Q.** Okay. But then it says compared to those who did
 24 not view, which is this dealing with the ultrasound issue.
 25 Women who viewed their ultrasound images were most likely

1 to be -- more likely to be younger, number one; right? And
 2 we'll talk about it in a minute, but do you recall from
 3 Roberts we were -- they made a finding that decisional
 4 uncertainty is actually higher among young women,
 5 correct -- or made an observation in Roberts?
 6 **A.** Can we turn to that?
 7 **Q.** Well, do you remember that or not?
 8 **A.** I don't remember. I hesitate to make -- to say
 9 that specifically until we look at it.
 10 **Q.** Understand. We'll get there. But age can be
 11 important, right, because we're talking about it right
 12 here? So compared to who did not view, women who viewed
 13 their images were more likely to be younger, African
 14 American, and have higher levels of poverty, and have no
 15 previous pregnancy. So all of these things correlated to
 16 this decision to view an ultrasound, right, according to
 17 this study?
 18 **A.** Correct.
 19 **Q.** And so when you just -- when you back away and
 20 you start talking about a study or studies that discuss a
 21 decision to view an ultrasound and the impact that might
 22 have on a decision, those factors, age, race, poverty, can
 23 have some impact on whether it's a data set that you can
 24 translate to another data set; right?
 25 **A.** That's correct. And that's why I think it's

1 important, then, that they found those factors in the
 2 main analysis that they were doing in Table 2, looking at
 3 the factors that were associated with continuing the
 4 pregnancy. And in those multivariable analyses age, if
 5 I'm remembering correctly, race ethnicity, for certain, was
 6 not -- was not manifested.

7 Q. Well, go to page 85, if you would. You got it?

8 A. Yes.

9 Q. I think that's where you are. Just go down. So
 10 we talked about this yesterday, but on the left column
 11 there there's this full sentence beginning with "unlike,"
 12 and I'm going to read it. It says, "Unlike the two
 13 existing studies on the effect of ultrasound viewing, our
 14 analyses show that voluntarily viewing was associated with
 15 some women's decisions to continue the pregnancy." Did I
 16 read that correctly?

17 A. That is correct.

18 Q. Okay. And it does. It says, "However, the
 19 effect was very small and should be considered with
 20 caution, and the effect was limited to the 7 percent of
 21 people -- of patients who had the medium or low decision
 22 certainty," right?

23 A. Correct.

24 Q. And so when we see this population of people who
 25 present for an abortion, which is what this study group is;

2 A. I didn't say that.

3 Q. Okay. So you agree that it does?

4 A. I believe that the -- I stated very much what was
 5 here in this paper, which is that ultrasound viewing does
 6 not have -- appear to have any effect for people that have
 7 high decisional certainty. The only measurable effect
 8 appears to be with voluntarily viewing, those who have
 9 lower decisional certainty, and it's unclear if they --
 10 those are also patients who are more likely to choose to
 11 see the ultrasound, and it's unclear whether they're
 12 influenced by seeing the ultrasound images or they choose
 13 to see the ultrasound image so that they can be pushed
 14 toward not having an abortion.

15 Q. Okay. I get it. But you'll agree with me that
 16 at a minimum what this shows is there are people who have
 17 made an appointment for an abortion, walk into a clinic,
 18 and have some decisional uncertainty; right? Correct?

19 A. Yes.

20 Q. Based on the numbers, 7.4 percent?

21 A. Yes.

22 Q. And that some of those people, then, are affected
 23 by viewing the ultrasound?

24 A. I don't know that I -- you're -- you're putting
 25 directional casualty in that, which I did not.

1 right? And -- right?

2 A. Correct.

3 Q. These are people who walked in and made an
 4 appointment for abortion; correct?

5 A. Correct.

6 Q. And so we talked about decisional certainty, but
 7 even among this set of people there are people that show
 8 medium or low decisional certainty; correct?

9 A. Correct.

10 Q. And it's those people that are impacted when they
 11 voluntarily view the ultrasound; right? Yes or no.

12 A. Yes.

13 Q. Okay. Now, you can -- go ahead if you have more
 14 you want to say.

15 A. So this study was looking at same-day ultrasound
 16 viewing. So women came in and had the ultrasound and then
 17 either did or did not have the abortion, generally that
 18 same day. And so I guess my -- I mean, I don't know if
 19 we're talking specifically about the ultrasound viewing
 20 situation here in Iowa, but my understanding that that's
 21 not really the focus of what -- I mean, I wasn't really --
 22 that's not the focus of what this discussion is here in
 23 this case. Is that correct?

24 Q. Well, certainly, the implication of what you told
 25 the judge yesterday is looking at an ultrasound doesn't

1 Q. Well, but the study did? So go back to 85.

2 A. They say that there's an association. So they're
 3 saying that voluntarily viewing was associated with some
 4 women whose decision was to continue pregnancy.

5 Q. All right.

6 A. I mean, as I also mentioned, I believe, yesterday
 7 in my testimony, in my own clinical experience, you know,
 8 there is some population of women who come in and they're
 9 uncertain when they're seeking an abortion. And after
 10 going through the patient education session and talking
 11 with me or one of my physician colleagues, they don't
 12 continue with the abortion that day. And I think it's the
 13 sum of a lot of information that they get. Part of it is
 14 the ultrasound, part of it is more information about the
 15 procedure, part of it is talking through with someone else
 16 what their feelings are about the procedure.

17 Q. Okay. Anything else?

18 A. No.

19 Q. Okay. Well, but the primary point here is to
 20 talk about the fact that in this study, this narrow issue
 21 about ultrasound viewing that the authors pointed out that
 22 if you -- that a younger patient population showed
 23 different characteristics than population as a whole, that
 24 people who had higher levels of poverty showed different
 25 characteristics in terms of how they responded in the

1 analysis and people who had no previous pregnancy. You
2 would agree with that on page 83?

3 **A.** I think they're talking there about who chooses
4 to view, but again, they looked at those factors in a
5 multivariable analysis as to whether they continued the
6 pregnancy. I think only one of the age groups was
7 significant. Race ethnicity was not significant. Poverty
8 was not significant. Gestational age was significant, and
9 having multiple gestation was significant.

10 **Q.** Okay. Let's move to Exhibit 31. And so this is
11 the Joyce article that you and I were talking about a
12 little bit earlier; right?

13 **A.** Correct.

14 **Q.** And this is an article that is based on this
15 Mississippi -- it studies the Mississippi 24-hour waiting
16 period; correct?

17 **A.** The 24-hour delay, yes.

18 **Q.** Right. And I think the data set is in the '90s,
19 if I'm not mistaken. So it's one of the early data sets
20 about waiting periods; is that fair to say?

21 **A.** Yes.

22 **Q.** And the article that you talked about yesterday,
23 Exhibit 31, the conclusions in the abstract on page -- I
24 guess page 4 of Exhibit 31, read the conclusion for me, if
25 you would.

1 **A.** I believe that's correct. At this point, this
2 period, I believe that it was a -- it's -- it says
3 published by Guttmacher Institute. It must be that it was
4 *The Journal of Guttmacher*. I have to admit that I'm not
5 100 percent certain on this.

6 **Q.** All right.

7 **A.** But it is a peer-review journal.

8 **Q.** Understood. And just to be clear, it's the --
9 it's from the same investigators and the same data set as
10 the article that we were talking about that the
11 Seventh Circuit took exception to; right?

12 **A.** I believe it is, yeah.

13 **Q.** Yes?

14 **A.** I believe so. I'm not sure which article that
15 you're -- it is that you're talking about. Is it one of
16 the exhibits?

17 **Q.** No.

18 But these investigators, to the extent that a
19 federal judge thought that the findings were based on a
20 faulty study by biased researchers who operated in a vacuum
21 of speculation, would that be important to you if it's
22 stuff that you're relying upon?

23 **A.** Again, I have not read the decision. I know Ted
24 Joyce, and he's a very well-respected economist.

25 **Q.** And the Court ultimately said, "It is apparent

1 **A.** "The proportion of abortions performed later in
2 pregnancy will probably increase if more states impose
3 mandatory delay laws with in-person counseling
4 requirements."

5 **Q.** You know what. I need to go back. One thing I
6 forgot.

7 So the cover page on Exhibit 31 is from the
8 Guttmacher Institute. Do you see that? Guttmacher
9 Institute?

10 **A.** Yes.

11 **Q.** Are you familiar with the Guttmacher Institute?

12 **A.** I am.

13 **Q.** And they're affiliated with Planned Parenthood;
14 is that correct?

15 **A.** I don't believe that they're affiliated with
16 Planned Parenthood.

17 **Q.** Okay. They're not a specific affiliate?

18 **A.** As far as I know, they are not.

19 **Q.** Okay. And the way this works -- so this article
20 was published in something called *Family Planning*
21 *Perspectives* in February of 2000; is that correct?

22 **A.** Correct.

23 **Q.** Is that a -- is that a typical -- is that a
24 publication, or is it a publication of the Guttmacher
25 Institute?

1 that the district court's reliance upon Mississippi data to
2 predict the effects of materially different legislation in
3 Indiana, a notice-in-waiting provision piles a mountain of
4 speculation upon a foundation of quicksand." That's pretty
5 harsh words coming from a federal judge, isn't it?

6 **A.** Those are definitely harsh words.

7 **Q.** So let's go back to the front page of Exhibit --
8 of actually page 4 of Exhibit 31, which is the abstract.
9 And I think, unless I misunderstood, have you -- you in
10 your discussion yesterday -- I guess I just need to be
11 clear -- talked about this in two respects, one is delay in
12 the sense of delay of procedure and the concern that it
13 would increase second trimester abortions; right?

14 **A.** Correct.

15 **Q.** And just to be clear, I mean, we've talked about
16 this a little bit. You have mentioned it a number of
17 times. I mean, do you think that a second trimester
18 abortion is an unsafe procedure?

19 **A.** I do not.

20 **Q.** All right. So, I mean, we've heard testimony
21 from Dr. Meadows and others that abortions are safe.
22 They're safer than childbirth. And you disagree with that
23 testimony?

24 **A.** No, I do not.

25 **Q.** Right. So this concern that when people move

1 from first trimester to second trimester based on what
 2 That there's some incremental risk even though you still
 3 think it's an absolutely safe procedure? Is that it?
 4 **A.** There is a -- there is a measurable risk of
 5 complications and death, and it's clear that that increases
 6 as pregnancy advances. And it's a significant risk that --
 7 significant increase from first trimester to second
 8 trimester. I mean, on an order of about 8 to 10 times
 9 higher risk, and is it still less than childbirth? Yes.
 10 But why would we submit women to that measurable increased
 11 risk when -- for no benefit?
 12 **Q.** All right. I mean, so it's your testimony that
 13 there's a significant risk of complications and death from
 14 abortion?
 15 **A.** There is a -- there are measurable risks of
 16 complications and death from abortion, and those increase
 17 as pregnancy advances. And taken overall or individually
 18 looking at week by week, these risks are still less
 19 compared to continuing the pregnancy to term. But those
 20 risks increase from the first trimester to the second
 21 trimester.
 22 **Q.** And they're real; right? They're real risks?
 23 **A.** Of course.
 24 **Q.** So yesterday -- at the end of your testimony
 25 yesterday, you kind of took crisis counseling centers to

1 **Q.** And do I understand you that you also pointed
 2 to this as evidence to support your kind of other opinion
 3 that women will be actually denied access to an abortion?
 4 Because I don't see it anywhere in here.
 5 **A.** Yeah. I -- I think I focused my testimony
 6 related to the piece related to delay. I think that was
 7 really what the focus of my testimony was yesterday.
 8 **Q.** Right. Because there's no finding here that the
 9 delay caused people to lose access to an abortion?
 10 **A.** I mean, there was a measurable -- I mean, this --
 11 there was a measurable decline in the abortion rate, but
 12 they don't have evidence in this paper or in this analysis
 13 from Mississippi clearly showing that it was because women
 14 were denied access.
 15 **Q.** Right. I mean, they don't even try to attribute
 16 it to that fact anywhere in here. They don't even say
 17 that; right?
 18 **A.** I believe that's correct.
 19 **Q.** Yeah.
 20 **THE COURT:** Mr. Thompson, I'm going to look for a
 21 break.
 22 **MR. THOMPSON:** This would be fine.
 23 **THE COURT:** Is this a good spot?
 24 All right. We'll take a 15-minute break.
 25 (The bench trial recessed at 10:27 a.m.)

1 task for talking about or emphasizing the risks of
 2 abortion; right? You told the judge that was
 3 inappropriate?
 4 **A.** That is inappropriate in a -- in a pamphlet
 5 that's entitled "Before You Decide." I think that it is
 6 critical that you present unbiased evidence about what the
 7 risks are associated with both outcomes of the decision
 8 that a women is deciding between. And to present only one
 9 of them and also to exaggerate those, I believe, is
 10 inappropriate and misleading.
 11 **Q.** But you agree that there's a risk associated -- a
 12 significant risk of complications and death from an
 13 abortion?
 14 **A.** There is a measurable risk that is less than
 15 continuing a pregnancy to term.
 16 **Q.** Right. But, again, you agree that a second
 17 trimester abortion is still a safe procedure?
 18 **A.** I do.
 19 **Q.** So, again, back to the -- so the conclusion
 20 reached by the investigators in the Joyce case that you
 21 just read is that the proportion of abortions performed
 22 later in pregnancy will probably increase if more states
 23 impose mandatory delay laws with in-person counseling
 24 requirements; right?
 25 **A.** Correct.

1 (The bench trial resumed at 10:42 a.m.)
 2 **THE COURT:** Mr. Thompson, do you have additional
 3 questions?
 4 **MR. THOMPSON:** I do, Your Honor. Thank you.
 5 **Q.** You got everything? You got water?
 6 **A.** I'm good. Thank you.
 7 **Q.** All right. So we're still talking about
 8 Exhibit 31, which is the Joyce study that you discussed,
 9 and if you'll flip to page 8 of the study, which is where
 10 we're talking about the characteristics of the cohort, do
 11 you see that?
 12 **A.** Yes.
 13 **Q.** And this was a study about delay; right?
 14 **A.** Correct.
 15 **Q.** And so, you know, we'll -- the age breakdown is,
 16 I think you mentioned, is -- tends to be different. It's
 17 kind of hard to match up. But let's just focus on race for
 18 a second. Mississippi, 52 percent white -- do you see
 19 that -- of the state cohort?
 20 **A.** Yes.
 21 **Q.** And they have it broken down, so it's
 22 51 percent -- 51.8 percent and 52 and then the percentage,
 23 looks like it goes down in the after group; right?
 24 **A.** Correct.
 25 **Q.** And it's in the high 40s. So around 50 percent

1 if you just kind of look at it, it's just by race
 2 focus, because if you look back to the Iowa cohort that we
 3 looked at, it was 82 percent white; right?
 4 **A.** On the medication abortion patients.
 5 **Q.** Right.
 6 Now, you keep qualifying it, so what's your best
 7 estimate of the total demographic number for Iowa abortion
 8 patients not just telemed?
 9 **A.** I would say overall it's lower, probably in the
 10 order of 72 to 73 percent.
 11 **Q.** 72, 73 percent white?
 12 **A.** Yes.
 13 **Q.** Okay. And so there's a racial difference. But
 14 you would agree with me there's a difference in the cohort
 15 in racial composition between the Mississippi cohort and
 16 the Iowa cohort?
 17 **A.** Correct.
 18 **Q.** Okay. And then if you'll flip to page 10 of the
 19 study, do you see that down at the bottom? It's really the
 20 paragraph right before the bullet point that says,
 21 alternative specifications. Do you see that?
 22 **A.** Uh-huh.
 23 **Q.** So it says, "There were also significant
 24 differences in abortion and timing by race, as white women
 25 were less likely to delay than nonwhite women. For

1 example, the proportion of second trimester procedures was
 2 1.8 percentage points lower, and the mean gestation of a
 3 fetus nearly 2.3 days shorter among white abortion clients
 4 than among nonwhites." Do you see that?
 5 **A.** Yes.
 6 **Q.** So even when we're talking about a delay, race
 7 matters; right?
 8 **A.** Yes. There were associations with race in that.
 9 **Q.** And then if you look at page 9 of the study, at
 10 the bottom right-hand corner, that's a paragraph that says,
 11 "The outcome of previous pregnancies also independently
 12 predicted the timing of abortion. Compared with women who
 13 were having their first abortion, those who had already had
 14 one were significantly less likely to terminate their
 15 pregnancy in the second trimester, a proportion 1.7
 16 percentage points lower, and they obtained their abortion
 17 1.4 days sooner." Do you see that?
 18 **A.** Yes.
 19 **Q.** So, moreover, having had at least two previous
 20 abortions relative to never having one lowered the
 21 proportion of second trimester procedures by 2.5 percentage
 22 points and also lowered the gestational age by more than a
 23 fifth of a week, which is, I think, what, a little over a
 24 day? So again, race and whether you've had an abortion
 25 before as a patient affects how much delay you actually

1 measure in these data sets that measure this delay issue;
 2 right?
 3 **A.** There was an association of that, yes, in this
 4 study, yes.
 5 **Q.** Got it.
 6 Let's go to Exhibit 42. This is the White study
 7 in which you were a coauthor. Got it?
 8 **A.** Yes.
 9 **Q.** Okay. Sorry.
 10 And again, if you would, read the conclusions on
 11 the abstract.
 12 **A.** "Although most women returned for their abortion
 13 procedure, many traveling long distances had a week or more
 14 between visits. Because delays may limit women's options
 15 for affordable abortion care, evidence-based policies
 16 should be adopted to facilitate women's timely receipt of
 17 services."
 18 **Q.** And so, again, here, I mean, there is -- this is
 19 something that you've talked about in the context of delay;
 20 right?
 21 **A.** Correct.
 22 **Q.** But just to be clear, there is no specific
 23 finding in this study that the delays are what caused
 24 people not to return for their abortions?
 25 **A.** No. This is -- this paper -- I was not drawing

1 any conclusion related to whether people were being
 2 prevented from obtaining a wanted abortion.
 3 **Q.** Exactly. And then to the extent that it sounded
 4 like you were saying that yesterday, you're not suggesting
 5 this is a study that shows delay causes loss of access?
 6 **A.** I did not say that yesterday.
 7 **Q.** All right. Now, one of the things you have
 8 talked about is, I think, you yesterday -- earlier this
 9 morning were talking about distance and your concern about
 10 the distance that lowans have to drive to obtain services;
 11 right?
 12 **A.** Correct.
 13 **Q.** And so one of the things that is set forth here
 14 in the abstract, at least, observes that 19 percent of
 15 women did not return for abortion; correct?
 16 **A.** To the -- to clinics that we had data from.
 17 There were three other clinics in the state that we did not
 18 have data from.
 19 **Q.** Right. I understand. But there's no attempt to
 20 say why. Nobody is asking why they didn't return, so we're
 21 not talking about that question.
 22 **A.** No.
 23 **Q.** But the one thing that you say in the next
 24 sentence is what? "The distance traveled was not
 25 associated with return for an abortion visit." In other

1 words, their return, whether or not they returned was not
2 associated with distance; right?

3 **A.** That is correct.

4 But this was in a setting where we only had data
5 from two of the five clinics, I believe, in the state, so I
6 don't feel like we can rightly make an assessment about
7 that. We're just -- I'm able to talk about what we had
8 access to the data to. It did not return to -- there was
9 no association between returning to those two facilities
10 and distance.

11 **Q.** Right. So it doesn't support either the
12 proposition that distance causes the lack of return to the
13 clinic or that the bill itself causes women to be unable to
14 obtain abortions; right?

15 **A.** Neither of those two conclusions were supported
16 by this study.

17 **Q.** If you'll turn to page 3 -- page numbers are up
18 in the right-hand corner of Exhibit 42. Do you see it?

19 **A.** I'm sorry. I see page 3.

20 **Q.** Page 3. And just above Table 1 there's a last
21 paragraph before it kind of -- it's part of a description I
22 want to read. It says, "Although the majority of women who
23 attended the in-person consultation visit returned to this
24 clinic system for an abortion, 19 did not return." There's
25 the table. The next sentence, though, says, "In

2 talk about cohorts, and we're talking about differences in
3 characteristics of cohorts. But sometimes limitations a of
4 study deal with who they collect the data from and whether
5 or not people respond to questionnaires or come back for
6 interview; right? As an investigator?

7 **A.** That's a limitation of survey-based studies.

8 Some of these data that we are reviewing in these
9 publications were based on statistic data, which would
10 include the entire universe of patients.

11 **Q.** Got it.

12 So two things. So if you will pull out -- I'm
13 sorry -- Exhibit 34, which is Ralph, which you mentioned, I
14 think, earlier. Find it?

15 **A.** Yes.

16 **Q.** And there's a -- there's a couple of issues that
17 I want you to look at. And, again, just to kind of orient
18 us, this is a study that was the subsequent analysis and
19 part of the data set that the Roberts study was based on;
20 correct?

21 **A.** Correct.

22 **Q.** So they're connected, and we'll get there. But
23 if you look at page 274 of this study, which is about -- I
24 know the pages are kind of hard in these things -- probably
25 about 6 pages back in Exhibit 34.

1 multivariable-adjusted logistic regression, young women
2 younger than 18 years of age had higher odds of not
3 returning for an abortion visit than women 18 to 24 years
4 of age;" right?

5 **A.** Yes.

6 **Q.** So you and I talked a couple of times about the
7 fact that -- and I think we're going to get to the -- to
8 the Ralph study -- that there -- that there is data that
9 suggests that younger women have more decisional
10 uncertainty than older women; is that correct?

11 **A.** Could we look at the Ralph study?

12 **Q.** We can. But, I mean, you have read all this
13 stuff. Are you familiar with the general proposition?

14 **A.** Maybe that's generally true, but if we're going
15 to refer specifically to the Ralph study, I would like to
16 look at that.

17 **Q.** I will get you there.

18 **A.** Again, just to highlight, I don't think this
19 finding related to returning -- whether these women
20 returned to the two of the five clinics in Alabama, they
21 were more likely to be -- you know, I don't think that had
22 anything to do necessarily. We can't make an assessment
23 whether or not it's related to decision uncertainty or not,
24 since that wasn't assessed here.

25 **Q.** Right. Okay.

1 **A.** Yes.

2 **Q.** It's right under that Table 3. Do you see it?

3 **A.** Yes.

4 **Q.** And this is back to the decisional conflict issue
5 that you and I have been talking about. So the final down
6 on the right-hand corner, it says, "Mean scores on the
7 DCS" -- which is that decisional conflict scale; right?

8 **A.** Correct.

9 **Q.** -- "were significantly higher indicating more
10 conflict among women age 19 years and under as compared to
11 women aged 20 years and older." So they had a significant
12 difference for young people on this measure of how
13 conflicted they are; right?

14 **A.** Correct.

15 **Q.** And then get me way through the tabs. And then
16 it was kind of a broader cushion on the other end of the
17 spectrum. So if you look at page 276. It's two pages
18 after where we flipped. Under paragraph 3.3, the first
19 full -- the second full paragraph you'll see in the middle
20 of it, it says -- specifically it talks about -- I will
21 read the whole paragraph so you have context. "In
22 multivariate analyses, women's age, endorsement of abortion
23 myths, and religious affiliation were associated with
24 scoring above the 90th percentile on the DCS." In other
25 words, this is that decisional conflict scale, and we're in

1 a -- in a study here where the higher the number the more
2 the conflict; right?

3 **A.** Correct.

4 **Q.** Right. Whereas when we were looking at the
5 Los Angeles study, the higher the score, the more the
6 certainty?

7 **A.** I believe that's correct.

8 **Q.** It measured certainty, but it was a conflict. I
9 just want to make clear.

10 So here it says on the DCS, age and endorsement
11 of abortion myths were associated with scoring above the
12 90th percentile on the TBS. Specifically, women age 35
13 years and older were less likely to have scores reflecting
14 high conflict for the DCS. And so if you kind of compare
15 what we talked about for age -- women aged 19 years and
16 under and women 35 years and older, you have kind of this
17 spectrum of conflict that the older women tend, you know,
18 to show -- tend to show less conflict. The younger women
19 show more conflict; right?

20 **A.** Right. And I think that the important part of
21 this --

22 **Q.** Well, first, say -- is that correct?

23 **A.** That is correct.

24 **Q.** Okay. Go ahead.

25 **A.** The -- I think the important conclusion of this

1 a -- in a study here where the higher the number the more
2 the conflict; right? **Q.** Some Utah cohort of the things we've looked of

2 at so far, is the most similar to the Iowa profile; right?

3 **A.** Probably. There's probably a larger Hispanic
4 population in Utah than there is here.

5 **Q.** And very different from the Los Angeles cohort we
6 saw; correct?

7 **A.** Correct.

8 **Q.** Which is similar to your patient base; right?

9 **A.** Similar, yes. Yeah.

10 **Q.** Well, and different than Alabama and Mississippi
11 and the other places we have just talked about; right?

12 **A.** Yes.

13 **Q.** Okay. Then go back to page 276 one more time.
14 I'm sorry. Can't follow my own tabs. We're going to go to
15 the bottom right-hand corner of page 276, and this is where
16 the investigators talk about the limitations of their
17 study; right? Correct?

18 **A.** Correct.

19 **Q.** And studies always have this section. There's
20 a -- they also want to point out things that they know
21 might be a weakness in their analysis or their data set;
22 correct?

23 **A.** Correct. Any good study would have this section.

24 **Q.** All right. I will agree with that.

25 So here's what it says. It says, "This study had

1 paper that I didn't focus on yesterday is what they were
2 really trying to do here was look at the agreement between
3 this validated scale, the decisional conflict scale, and
4 this TBS, which is a more simplified scale that is commonly
5 used by abortion educators and clinics. And what I show
6 here is that there's a very good correlation between these
7 two scales, which I find the take-away being that abortion
8 clinicians are doing a good job of assessing decisional
9 certainty in their current standard practice that they're
10 doing. And that scale performs well compared to a larger,
11 longer validated scale that's used for other health -- in
12 other health settings.

13 **Q.** Okay. Just -- if you go to page 271 just before
14 we move on, that's actually the table that -- of Exhibit
15 34, I'm sorry. That's the table that summarizes the
16 demographic information?

17 **A.** Uh-huh.

18 **Q.** And you've got, for example, race, and this is a
19 Utah cohort; right?

20 **A.** Yep.

21 **Q.** It's 66 percent white; right?

22 **A.** Which doesn't seem that different to me from
23 72 percent, 73 percent, which is what I estimate --

24 **Q.** For Iowa?

25 **A.** -- for Iowa.

1 several limitations. Our sample was limited to women
2 seeking abortion care in four Utah facilities, and as a
3 result differed from the national profile of women seeking
4 abortions in several respects." And this is the line I
5 just want to focus on. "First, adolescent women," young
6 women, "adolescent women were underrepresented here,
7 6 percent, as compared to nationally 18 percent. Thus, our
8 finding" in which they refer -- we talked to you about a
9 minute ago "that adolescent women scored higher on each
10 scale -- this is the uncertainty scales -- merits
11 additional explanation with a larger and more
12 representative sample of younger women."

13 So there's a concern that if it underrepresents
14 young women and young women show more conflict, that could
15 affect the outcome; right?

16 **A.** That's correct.

17 **Q.** And then if you go -- if you turn to the next
18 page set, 277 of Exhibit 34 and up in the left-hand corner,
19 that text wraps up kind of halfway down that big paragraph.
20 And it does here, talks -- let me back up. It talks for a
21 minute about, really, just affiliation, which they say, you
22 know, in Utah would be a different profile than in the rest
23 of the country; right?

24 **A.** Yes.

25 **Q.** And you agree -- would you agree that it's

1 appropriate, especially in the context of a study relating
 2 to abortion to observe that there may be differences in
 3 different populations driven not just on hard demographic
 4 issues but on their belief systems?
 5 **A.** Yes, I believe that's correct.
 6 **Q.** And so would you acknowledge to me that when --
 7 for example, your discussion of rural Iowa, that the only
 8 thing that distinguishes a county in rural northwest Iowa
 9 from Polk County, for example, is not just the distance
 10 from an abortion clinic; right?
 11 **A.** Correct.
 12 **Q.** And so you've got cultural differences. You've
 13 got all kinds of things related to rural Iowa and rural
 14 America, including belief systems?
 15 **A.** Correct. But I would say the best paper that
 16 we've talked about here that addresses that issue is our
 17 paper that was published in JAMA, where we looked at this
 18 in Texas. And we were actually -- we were able to look at
 19 the changes in distance for a given county. So there's no
 20 reason to believe between 2012 and 2014 that those belief
 21 systems changed in a rural county in Texas. What did
 22 change was the distance to the nearest clinic. And we
 23 observed a significant reduction in the abortion rates in
 24 those counties.
 25 **Q.** Right. But just to be clear, and you keep

2 in follow-up;" right?
 3 **A.** Correct.
 4 **Q.** And so if people who decided they didn't want to
 5 go through with an abortion are, you know, overrepresented
 6 in the people who don't want to, then, take the survey,
 7 then it would -- it would be biased in the sense that it
 8 wouldn't report that high certainty; right?
 9 **A.** I believe in the Roberts paper they point out
 10 that they -- they're based on the people they were able to
 11 get in touch with. They -- the data indicated that the
 12 majority of those people who are lost in follow-up sought
 13 abortion care at other abortion provider facilities, not
 14 that they didn't obtain an abortion, of the 30 percent who
 15 were not contacted.
 16 **Q.** Yeah. But it didn't say all of them?
 17 **A.** No. No. They can't say all of them.
 18 **Q.** Right. And it further can't say why the people
 19 who didn't follow-up or didn't seek an abortion chose not
 20 to seek an abortion because they didn't get the
 21 information?
 22 **A.** Well, they did talk to -- are you talking about
 23 Roberts now?
 24 **Q.** We'll get to Roberts. You just mentioned
 25 Roberts, and we jumped ahead.

1 pointing to that. So there was a change in the law, and
 2 then a change in rates; right? If I understand your
 3 analysis. From Point A to Point B and from before and
 4 after. I mean, you've not done any analysis like that in
 5 Iowa?
 6 **A.** This law hasn't gone into effect.
 7 **Q.** Right. That's my point. So you don't have any
 8 data that suggests that the -- that the rates have changed
 9 relative to this law going into effect. I mean, there's no
 10 suggestion that rates have changed in any way other than
 11 they continue to go down; right?
 12 **A.** We are not able to present data about the effect
 13 of this law since it is my understanding it only went into
 14 effect for a few hours.
 15 **Q.** Because there's no data; right?
 16 **A.** It's impossible that there could be data.
 17 **Q.** Right. But in the middle of the paragraph, the
 18 author's note, "Finally, approximately one-third of our
 19 sample did not complete the follow-up interview." Some
 20 people who presented for the informational visit and
 21 were -- who they talked to, then they didn't participate in
 22 the follow-up, and that's a pretty big chunk of people,
 23 right, a third of the cohort?
 24 **A.** Yes.
 25 **Q.** Okay. And it says, "our results might be biased

1 So let's move -- we'll get there in a minute.
 2 **A.** May I say something else?
 3 **Q.** Sure.
 4 **A.** I mean, I think I'm not -- the -- I talked
 5 about -- I think the two important findings from the Ralph
 6 paper are, one, what I just said, that there shows --
 7 there's good correlation between the scale that many
 8 abortion providers are currently using to assess decision
 9 certainty and a larger more in-depth validated scale
 10 suggests that abortion providers are doing a good job of
 11 assessing decisional certainty with their standard
 12 counseling.
 13 The other finding is that overall the decisional
 14 certainty is high measured on these validated scales for
 15 the patients that participated in this survey with the
 16 caveats that we just discussed.
 17 I think in the context of the other papers that
 18 we have looked at, which have much lower loss to follow-up,
 19 for example -- the Gatter study had a different assessment
 20 of decisional certainty -- also showing high proportions
 21 with high decisional certainty. I think all of these data
 22 are consistent in that the vast majority of women seeking
 23 abortion are sure of their decision.
 24 **Q.** Okay. I mean, I guess to follow-up on that
 25 point, though -- and we've talked through these different

1 data sets -- you would agree with me that even as to these
 2 sets of patients who have presented to an abortion clinic
 3 who have decided -- who have scheduled and made an
 4 appointment and show up at an abortion clinic, that all
 5 these data sets show there is a portion of women who had
 6 either, you know, moderate or even high uncertainty, and
 7 it's not -- and I don't quarrel with your number about vast
 8 majority, but a percentage of people -- in L.A.,
 9 7.4 percent, in Utah, it was higher, depending on how you
 10 draw the line.

11 But there's a percentage of people who already
 12 made an appointment for an abortion who have high
 13 decisional uncertainty; right?

14 **A.** Yes, that's correct. Even in my own practice in
 15 San Francisco.

16 **Q.** Right. And your practice is that at that point
 17 you tell them to take more time?

18 **A.** Correct. By making an individual assessment
 19 rather than a blanket statement that they all have to come
 20 back in 72 hours.

21 **Q.** Right.

22 Let's turn to Exhibit 37, which is Sanders, "The
 23 Longest Wait." I think you talked about that. Find it?

24 **A.** Yes.

25 **Q.** Now, this one is a different set of Utah women;

1 correct?

2 **A.** Correct.

3 **Q.** And you told the Court yesterday that -- and in
 4 this stat, it looks like a -- if I understand it correctly,
 5 that it was a before-and-after analysis of the 72-hour
 6 period; right?

7 **A.** I believe there are two analyses in this paper.
 8 One is looking at the proportion of patients who return
 9 after the initial information counseling visit.

10 **Q.** Yes. And then the impact stuff.

11 **A.** And the survey, yes.

12 **Q.** So I want to focus for a minute on delay. And
 13 what it -- what it said was, if I understand it, before the
 14 72-hour period 80 percent of the cohort returned for an
 15 abortion; right?

16 **A.** That was at -- there was a 24-hour --

17 **Q.** I'm sorry. I'm not being clear.

18 So this is isn't a 0 to 72?

19 **A.** Yeah.

20 **Q.** This shows that change from a 24-hour to a
 21 72-hour; right?

22 **A.** Correct. With the limitation that they're not
 23 working with all of the data from the state. They're
 24 working, I think, with the data from, what was it, three
 25 abortion facilities that provided 90 percent of abortions.

1 **Q.** And, I mean, frankly, all these studies have
 2 limitations; right?

3 **A.** Correct.

4 **Q.** And, I mean, to be honest, I don't have to prove
 5 anything here. I mean, you're the ones that presented
 6 these studies to the Court and are asking the Court to rely
 7 upon the studies; right?

8 **A.** Correct.

9 **Q.** But -- so it's a before-and-after shot of the
 10 72-hour change. And so with the 24, 80 percent returned
 11 for an abortion; right? Correct?

12 **A.** Correct.

13 **Q.** And then when the cohort of the -- after the 72,
 14 it was 77 percent?

15 **A.** Correct.

16 **Q.** So there's a difference, an absolute difference
 17 of 3 percent? I'm not quite sure what the exact percentage
 18 is. But they then observe what the delay was, and so read,
 19 if you would, read the conclusion on this abstract for me,
 20 please.

21 **A.** "Utah's extended waiting period showed a small
 22 reduction in the proportion of counseled women who returned
 23 for their abortion procedure statewide. Women who had
 24 abortions after the law was enacted reported several
 25 burdensome aspects of the law."

1 **Q.** Got it. So, I mean, it showed a small reduction;
 2 right? And they're kind of like the other studies you and
 3 I have talked about. The authors don't make or attempt to
 4 make any conclusion about whether that small reduction in
 5 people who returned was a result of the 72-hour waiting
 6 period or the delay is caused by that period; right?

7 **A.** I agree. They can't prove casualty from this.

8 **Q.** And, in part, because unlike the Roberts study,
 9 they didn't ask those people, you know, in the second
 10 cohort why it is that they didn't return. They just know
 11 they didn't return?

12 **A.** No. I'm sorry. You said like the Roberts study?

13 **Q.** No. Unlike the Roberts study, they didn't ask
 14 why.

15 **A.** Correct. They do report, however, in the survey
 16 part of this paper the burdensome aspects of the law that
 17 women had to face.

18 **Q.** But again, no conclusion that the 72-hour waiting
 19 period caused delay that denied access to an abortion?

20 **A.** No. But they do report the delay that women --
 21 the interval that women did have to wait between when they
 22 had that consultation visit and the abortion, that 62
 23 percent of women reported that more than seven days had
 24 passed since they visited the clinic for counseling and
 25 signed the consent form.

1 Q. Okay. Now let's get to Roberts. It's Exhibit 35. Got
 2 it?
 3
 4 A. Yes.
 5 Q. And turn to page 185. Are you there?
 6 A. Yes.
 7 Q. About halfway down the left hand column. I'm
 8 going to read a sentence. Says -- begins with "other
 9 advocates." "Other advocates argue that waiting periods
 10 are needed to give women time to change their minds.
 11 8 percent of women reported changing their minds." Do you
 12 see that sentence?
 13 A. Yep.
 14 Q. Now, you've -- they go on to say, We note that a
 15 'change of mind' may best describe only those who indicated
 16 at the information visit that they preferred having an
 17 abortion and were not conflicted and then who decided to do
 18 it. That kind of qualified it. But the authors say
 19 8 percent of women reported, quote, changing their minds;
 20 correct?
 21 A. But below they say our estimate of 2 percent
 22 changing their minds.
 23 Q. I understand that. But just go with me. So
 24 "8 percent of women reported changing their minds." Did I
 25 read that correctly?

1 A. You read that they reported changing their minds.
 2 Q. That is the author's conclusion -- the words
 3 written by the authors?
 4 A. That sentence is correct. There's additional
 5 information in this paragraph.
 6 Q. I understand, and I think you told the Court
 7 yesterday that you disagree with that characterization that
 8 they changed their minds; is that right? Or did I
 9 misunderstand you yesterday?
 10 A. I don't believe I said that. I think there was
 11 another sentence in here that I think is appropriate where
 12 they were talking about, I think, something about whether
 13 women were prevented, whether this study shows that women
 14 were prevented from obtaining a wanted abortion.
 15 Q. Yeah. Doesn't show that; right?
 16 A. It doesn't -- it doesn't show that, although they
 17 do document one woman who was prevented from having an
 18 abortion.
 19 Q. We're going to talk about that in a minute, but
 20 let's go -- flip to page 183, which is a table, because,
 21 you know, they interviewed these people. They did a
 22 survey; right?
 23 A. That's correct.
 24 Q. And so there were open questions -- what they
 25 called open-ended questions which kind of asked people just

1 the descriptive and then there were closed-ended
 2 questions which are kind of yes-no; right?
 3 So when I ask you a question, it's for a
 4 yes-or-no answer, that's designed to be a close-ended
 5 question; correct?
 6 A. There's also the likert scales that they're also
 7 asking.
 8 Q. But anyway, so if we look at the table, it lists
 9 close-ended questions that were asked of the participants;
 10 right? And the very first close-ended question is changed
 11 mind. Do you see that?
 12 A. Correct.
 13 Q. And it reports that of the people who were still
 14 pregnant on follow-up, 71 percent of them said, yes, I
 15 changed my mind. So I get that you kind of don't like that
 16 characterization, but that's what they said?
 17 A. But there's also additional data given in the
 18 paper which we can review where they talk about how women
 19 presented. Some of those women presented to the abortion
 20 clinic saying that they wanted to have a baby, and they
 21 were clearly very conflicted. They said I changed my mind
 22 because I initially went to the appointment. I said I want
 23 to have a baby. If they had done that -- come to San
 24 Francisco where there is not a 72-hour waiting period, we
 25 would not have performed that abortion.

1 So these are people who were highly conflicted,
 2 and they actually didn't really change their documented
 3 certainty about the abortion. They changed their decision
 4 about what they were going to do. They came in undecided
 5 and sought additional information, and then they didn't
 6 have the abortion.
 7 Q. But as we heard from Dr. Meadows yesterday, I
 8 mean, to get into the door, I mean, they have to make an
 9 appointment for an abortion to get an ultrasound and to --
 10 right? That's what Dr. Meadows said yesterday. So they
 11 literally have to make an appointment to get in to have
 12 this conversation?
 13 A. But I think we agree. We both said several times
 14 that there is a proportion of women, probably less than
 15 10 percent, that have significant conflict or are
 16 unresolved in their decision. And these are the people who
 17 require additional information and additional counseling,
 18 and they require additional time before they decide what
 19 they're going to do.
 20 Q. And you would agree with me it's not a good
 21 system if they have to make an appointment for an abortion
 22 to get that information?
 23 A. I mean, I don't know. I wasn't here for
 24 Dr. Meadows' testimony. I can tell you that if a patient
 25 calls our facility and says she's considering an abortion

1 and she wants more information and she wants to figure out
2 how far along she is and figure out what the medical risks
3 are, we would schedule her for that. She doesn't have to
4 be scheduled for the procedure before she could have the
5 assessment.

6 Q. So you would schedule her for just a n ultrasound
7 to confirm and date the pregnancy?

8 A. Yes.

9 Q. Okay. I mean -- and you weren't here for
10 Dr. Meadows. She testified that in Iowa women don't have
11 that option.

12 A. I wasn't. I can't speak for her. I don't know
13 what her practice is, but, no.

14 Q. Enough said.

15 Stay on page 183, top of Table 3. The open-ended
16 question. What was the -- 53 percent of the people who
17 were still pregnant on follow-up, what was the open-ended
18 response?

19 A. Just couldn't do it. I think, again, these
20 are -- as they talked about in some of the more textual
21 responses, these were often people who were highly
22 conflicted when they came in.

23 Q. If you will turn to page 182 of Exhibit 35.

24 And, again, just want to go back to something. I
25 don't want to beat a dead horse, but this -- on this page

1 it's kind of a breakdown of their cohort. And you recall
2 that this is one where the conflict scale is such where the
3 number -- if the number is higher, there's more conflict as
4 opposed to certainty. And so when we were back looking at
5 the Los Angeles cohort, the higher number showed more
6 certainty; right? And --

7 A. I believe so.

8 Q. -- so we had 7.4 percent in the Los Angeles
9 cohort who didn't show as highly certain, 7.4 percent that
10 were low or moderately uncertain. Does that make sense?
11 So here we've got kind of a different scale. But if you
12 chart it out, you've got of the 95 percent of women who
13 come in who, quote, preferred an abortion upon
14 presentation -- because that's how they start with this
15 study -- that when they did this decisional conflict scale,
16 the DCS, that 71 percent of this cohort showed a score from
17 0 to 25, which on this scale means high certainty or low
18 conflict -- low conflict; right -- which the authors
19 described at that point of certainty where you're ready to
20 implement a decision. Do you see that? 70 -- it's up in
21 the right-hand -- I'm sorry -- right-hand corner, first
22 full paragraph, kind of middle of the paragraph. 71
23 percent of women had high scores, had scores indicating low
24 conflict; right? And they --

25 A. You're on page 182?

1 right-hand corner.

2 A. 71 percent, yes.

3 Q. Got it?

4 A. Yes.

5 Q. Okay. Low conflict. Ready to execute.

6 71 percent. And then on the other end of the spectrum
7 there were this 8 percent that showed high conflict, which
8 is delay on certainty. Do you see that number?

9 A. Correct.

10 Q. At least 21 percent in the middle; right? That's
11 not 100 percent of the people?

12 A. Correct.

13 Q. And so if you compare this to the -- to the
14 Los Angeles cohort where 7 percent showed moderate or low
15 certainty, the corresponding -- and again, they don't line
16 up, but a close approximation -- we've got 29 percent in
17 the Utah cohort who have less than high certainty.

18 A. I'm not sure we can make a direct comparison
19 because they're different scales.

20 Q. I know we can't. They're different scales. But
21 if you just kind of draw the lines high and low in between,
22 you end up with on one hand -- well, let's talk about low.
23 You've got -- you -- the -- in Los Angeles, it's
24 7.4 percent who did not have the high certainty. It was
25 low or medium certainty; right? So high certainty was --

1 can't do the math right now, because my brain is tired
2 but -- everything but the 7.4 percent. In Utah we've got
3 8 percent plus the remainder that have less than high
4 certainty, and the high certainty people are 71 percent.
5 So it's -- there's 28 percent, 29 percent left over.

6 So my whole point is this: This reflects that
7 different demographic groups, different cohorts, different
8 groups of patients, can have different levels of high
9 certainty?

10 A. Correct. Which is why each patient needs an
11 individual assessment and determination of her needs.

12 Q. Okay. If you go down to the bottom of page 182,
13 bottom right hand corner -- well, I'm sorry. I'm going to
14 interrupt myself, because you did point out something I
15 didn't want to just ignore it.

16 Let's go back to the front page of the study for
17 just a minute. Don't want to be -- I don't want to -- so
18 when we talk about -- we can go through the analysis,
19 because it's essentially in the abstract, but you pointed
20 it out. In the results column, it talks about among 309
21 women that completed the follow-up; right? Do you see
22 that?

23 A. Yep.

24 Q. 86 percent had the abortion, and then we've
25 talked a lot about the 8 percent that were no longer

1 seeking an abortion, so there's that 8 percent that we
2 talked about where they changed their mind, and then that's
3 the 8 percent. And then in addition to the 8 percent,
4 you've got 3 percent that miscarried and discovered they
5 weren't pregnant; right? So that's a reason why they
6 didn't come back for an abortion.

7 And 2 percent were still seeking an abortion, and
8 you mentioned that, I think, in your direct. They were
9 still trying to find out where to go and about the other
10 their options. And then you -- one woman was still
11 deciding, hadn't made a decision. She hadn't come back,
12 but she hadn't decided one way or the other; right? And
13 then you pointed out that the waiting period had pushed one
14 woman beyond her facility's gestational limit for abortion;
15 right?

16 A. Correct.

17 Q. So we have one woman in this study for a 72-hour
18 waiting period out of 309 women who reported that the delay
19 pushed her past a day; right?

20 A. Correct.

21 Q. So that's -- as far as I can see out of all the
22 stuff we've talked about all day yesterday and all day
23 today, all these studies, this is the single data point
24 that shows a patient being pushed, by delay, beyond a time
25 in which she can obtain an abortion; right? One person?

1 A. I -- I'm not sure that I -- I understand what
2 you're saying. Is there any other interviews with women
3 who have reported that they have been delayed past the
4 point of which they can --

5 Q. No. I'm talking about a study that says here's a
6 person who was delayed to the point where they cannot
7 access an abortion. That's the only place in all the
8 studies.

9 A. Actually documented and spoke to that particular
10 person and documented what happened to her, this is the
11 only one.

12 Q. Right. One out of 309 in Utah.

13 A. Correct.

14 Q. Okay. Now let's go to -- back to 182, down at
15 the right-hand corner, bottom, and this is where they're
16 just talking about reasons and predictors. In the third
17 paragraph -- you and I have already talked about this.
18 Beginning -- it says, "The most common response to the
19 open-ended question about reasons for not having an
20 abortion was that the woman, quote, just couldn't do it,
21 end quote," and that's -- you and I looked at that on
22 Table 3; right?

23 A. Right.

24 Q. Go down to the -- they talked about other
25 different things that were reported in the open-ended

1 question is, did she come back here?

2 A. Correct. Yes.

3 Q. So go down to the last paragraph.

4 A. Last paragraph where?

5 Q. Last paragraph at the bottom on the right-hand
6 side, starts with "it was"?

7 A. Uh-huh.

8 Q. And these are in quotes, so this is reported by a
9 patient, one of the people who reported that she was going
10 to continue her abortion; right? I mean, continue her
11 pregnancy; correct? So would you read that paragraph for
12 me?

13 A. "It was a hard decision for me to make in the
14 first place, and once I made the appointment, it kind of
15 hit home. About two days after the information
16 appointment, I canceled the abortion appointment. I
17 couldn't do it. Something that I have always been against.
18 I had my reasons that I thought were good reasons, and then
19 I re-reasoned myself out of it."

20 Q. So in this case, the informational appointment
21 and the delay made a difference to a patient?

22 A. I don't know that that's the case.

23 Q. That's not how you interpret that?

24 A. No. I don't know what her level of certainty was
25 when she was assessed on the -- at that initial visit. I

1 don't have any indication that if she had presented to the
2 clinic and gone through the standard counseling or it
3 wasn't a mandatory delay, they might have very well
4 identified this conflict in the discussion with her and
5 told her that she needs additional time. We have no
6 evidence indicating that this mandatory delay is -- helps
7 with decision making compared to standard practice.

8 Q. Well, all we have is what she said; right? This
9 is what the person said; right?

10 A. Correct.

11 MR. THOMPSON: I don't have any further questions
12 at this time, Your Honor.

13 THE COURT: Redirect?

14 MS. CLAPMAN: Yes.

15 REDIRECT EXAMINATION

16 BY MS. CLAPMAN:

17 Q. Let's start at that paragraph that you were just
18 at with counsel and the narrative that was being discussed.
19 And can you read the first sentence that you were just
20 discussing with counsel out loud?

21 A. "It was a hard decision for me to make in the
22 first place, and once I made the appointment, it kind of
23 hit home."

24 Q. Is it clear in that narrative which appointment
25 she means?

1 **A.** I think she means the first appointment.
 2 mean -- I mean, whenever -- whatever appointment she had to
 3 make to start this process, that's what I interpret this
 4 as.
 5 **Q.** Trying to think if I -- okay. So while we're on
 6 the study, let's stay on the study. Can you look at Table
 7 3 with me, please. What does this table report?
 8 **A.** These are data from women who were still pregnant
 9 at the follow-up as well as women who completed the
 10 follow-up. And so it's a percentage of women who gave
 11 various responses to open- and closed-ended questions about
 12 why they had not had an abortion.
 13 **Q.** Okay. And among the open-ended questions, what
 14 percentage of these patients reported financial reasons as
 15 the reason they had not had the abortion?
 16 **A.** 1 percent of those who were still pregnant and
 17 2 percent overall.
 18 **Q.** And what percentage of these patients reported
 19 too far along as the reason why they had not had the
 20 abortion?
 21 **A.** 9 percent of those that are still pregnant and 1
 22 percent overall.
 23 **Q.** I just want to clarify. This may have come out
 24 in the record yesterday, but I want to make sure. The
 25 Ralph paper that you relied on -- and that is at Exhibit

1 **A.** "Finally, approximately one-third of our sample
 2 did not complete a follow-up interview, and our results
 3 might be biased if those with high uncertainty were more
 4 likely to be lost to follow-up. Therefore, there were
 5 no -- there was no evidence of differential attrition by
 6 DCS or TBS score" -- which is what they looked at --
 7 "reducing the likelihood of this bias."
 8 **Q.** So what are the authors saying there?
 9 **A.** I think that the authors are saying in this case
 10 that there was no -- for their purposes of comparing the
 11 two scales, that that attrition doesn't affect the
 12 comparison.
 13 **Q.** If you could turn to Tab 42 for a moment. Is
 14 this the Alabama study that you were coauthor on?
 15 **A.** Correct.
 16 **Q.** If you could turn to page 5 and look at Table 3
 17 with me for a moment?
 18 **A.** Yes.
 19 **Q.** And I'm looking at the days between visits, so
 20 the percentage of patients who were delayed certain time
 21 intervals. Looking at the column for patients who are
 22 delayed at least 14 days between their visits --
 23 **A.** Yes.
 24 **Q.** -- by the mandatory delay law, do you see the
 25 racial ethnic breakdown there?

1 34, "Observing Decisional Certainty Rates" --
 2 **A.** Yes.
 3 **Q.** -- where is that paper set?
 4 **A.** This is in Utah. These are data from Utah.
 5 **Q.** Okay. And if you can turn to the limitation
 6 language that you were discussing with counsel earlier at
 7 the end of study?
 8 **A.** Yes.
 9 **Q.** So you discussed with counsel the sentence about
 10 approximately one-third of our sample did not complete the
 11 follow-up interview; correct?
 12 **A.** Yes.
 13 **Q.** Could you please -- just for clarity in the
 14 record, can you please reread the sentence with the
 15 following sentence?
 16 **A.** I'm sorry. Can you just --
 17 **Q.** Sure. I probably wasn't very clear. You
 18 discussed this sentence starting, "Finally, approximately
 19 one-third of our sample did not complete a follow-up
 20 interview with counsel"?
 21 **A.** Please tell me what page you're on.
 22 **Q.** Yes. That would be helpful. Sorry about that.
 23 Page 277 --
 24 **A.** Yes.
 25 **Q.** -- at the end of the study.

1 **A.** Yes.
 2 **Q.** Are there significant differences within that
 3 breakdown?
 4 **A.** There were not.
 5 **Q.** In your Iowa research on telemedicine, did you
 6 find that improved access to abortion in Iowa was
 7 associated with a decline in second trimester rates of
 8 abortion?
 9 **A.** Yes, we did.
 10 **MS. CLAPMAN:** No further questions.
 11 **THE COURT:** Anything else, Mr. Thompson?
 12 **MR. THOMPSON:** I do have a real brief thing that
 13 I forgot, if I could.
 14 RE-CROSS EXAMINATION
 15 **BY MR. THOMPSON:**
 16 **Q.** On Exhibit -- do you have Exhibit 14, which is
 17 your disclosure?
 18 **MS. CLAPMAN:** I'm sorry. I'm going to object for
 19 the record to cross that's beyond the scope -- to recross
 20 that's beyond the scope.
 21 **THE COURT:** If it's beyond the scope, then it
 22 won't be allowed.
 23 Anything that is within the scope?
 24 **MR. THOMPSON:** No, Your Honor.
 25 **THE COURT:** Dr. Grossman, thank you for your

1 testimony. If someone can help you out on that, you'll be
 2 free to leave.
 3 Next witness?
 4 **MS. SALGADO:** Yes, Your Honor. Petitioner calls
 5 Dr. Collins.
 6 **THE COURT:** Dr. Collins, will you raise your
 7 right hand, please.
 8 JANE COLLINS,
 9 called as a witness, having been first duly sworn by the
 10 Court, was examined and testified as follows:
 11 DIRECT EXAMINATION
 12 **BY MS. SALGADO:**
 13 Q. Good morning, Dr. Collins. Thank you for waiting
 14 patiently outside.
 15 A. No problem.
 16 Q. Can you please state and spell your name for the
 17 record?
 18 A. Jane Collins. J-a-n-e. C-o-l-l-i-n-s.
 19 Q. Can you please turn to Tab No. 8 in the binder in
 20 front of you?
 21 A. Yes.
 22 Q. Do you recognize this document?
 23 A. I do.
 24 Q. What is it?
 25 A. It's my curriculum vitae.

1 Q. Did you prepare it?
 2 A. I did.
 3 Q. Is the information on that correct?
 4 A. Yes.
 5 Q. Dr. Collins, I don't want to spend too much time
 6 on credentials given the Court has your CV, but I would
 7 like to briefly highlight your professional history for the
 8 Court. You are currently a professor in community
 9 environmental sociology; is that correct?
 10 A. Yes.
 11 Q. Where is that?
 12 A. University of Wisconsin, Madison.
 13 Q. How long have you held that position?
 14 A. I've held that position since 2000.
 15 Q. And you're also a faculty affiliate with the
 16 institute for research on poverty; is that correct?
 17 A. Yes.
 18 Q. And is that also at the University of Wisconsin?
 19 A. Yes.
 20 Q. Are you also a faculty affiliate at the Robert M.
 21 Lafollete School of Public Affairs?
 22 A. Yes.
 23 Q. And is that also at the University?
 24 A. It is.
 25 Q. Have you previously held appointments in the

1 department of sociology and women's studies?
 2 A. Yes.
 3 Q. When was that?
 4 A. From 1992 until 2000.
 5 Q. What professional degrees do you hold?
 6 A. I received a Ph.D. in anthropology from the
 7 University of Florida in 1981. Do you want me to continue?
 8 Q. Yes. Go ahead.
 9 A. I received a master's degree in Latin American
 10 studies from the University of Florida in 1978 and a
 11 bachelor's degree in anthropology from the University of
 12 Virginia in 1976.
 13 Q. What field has been the focus of your career?
 14 A. My research specializations are in low wage --
 15 the study of low-wage labor, poverty, and gender.
 16 Q. Do you teach on the topics of gender and poverty
 17 at the University of Wisconsin?
 18 A. I do.
 19 Q. Do you teach undergraduate and graduate courses?
 20 A. Yes.
 21 Q. Do you conduct any research?
 22 A. I do.
 23 Q. Can you tell the Court about the research that
 24 you do?
 25 A. So I do research on these topics, and very

1 frequently that research involves the study of the
 2 livelihood strategies of low-wage workers. I've done
 3 research on this topic funded by the National Science
 4 Foundation, the U.S. Department of Agriculture, and state
 5 departments of Work Force Development both in the U.S. and
 6 in Latin America.
 7 I've studied the household livelihood strategies
 8 of farm families within the U.S. and in Latin America,
 9 agricultural wage workers, garment workers, and low-wage
 10 service sector workers. In the early part of my career, it
 11 was mostly in Latin America, but for the past 20 years,
 12 most of my work has been in the Upper Midwest.
 13 Q. You've mentioned the term "livelihood
 14 strategies." Can you explain that a little bit more?
 15 A. It refers to the study of -- at the household
 16 level not macro level, but at the household level of how
 17 families gain income and how they allocate resources and
 18 how they make economic decisions.
 19 Q. Have you done any research on the livelihood
 20 strategies of low-income women?
 21 A. I have.
 22 Q. Have you authored any publications specifically
 23 on women and poverty?
 24 A. Yes.
 25 Q. Can you highlight a little bit of the