

24-1576(L), 24-1600, 24-1617

United States Court of Appeals
for the
Fourth Circuit

AMY BRYANT, M.D.,
Plaintiff/Appellee,

– v. –

TIMOTHY K. MOORE; PHILIP E. BERGER,
Intervenors/Defendants-Appellants,

and

JOSHUA H. STEIN, in his official capacity as Attorney General for
the State of North Carolina, et al.,
Defendants-Appellees.

ON APPEAL FROM THE UNITED STATES DISTRICT COURT
FOR THE MIDDLE DISTRICT OF NORTH CAROLINA AT GREENSBORO

**BRIEF OF *AMICI CURIAE* REPRODUCTIVE HEALTH
RESEARCHERS IN SUPPORT OF PLAINTIFF-APPELLEE
AND REVERSAL IN PART**

Anjali Srinivasan
Sydnee J. Robinson
Jonhatan A. Aragon
KEKER, VAN NEST & PETERS LLP
633 Battery Street
San Francisco, California 94111
(415) 391 5400

Attorneys for Amici Curiae
REPRODUCTIVE HEALTH
RESEARCHERS

DISCLOSURE STATEMENT

Pursuant to Fed R. App. P. 26.1 and Fourth Circuit Rule 26.1(b), *Amici Curiae* Reproductive Health Researchers¹ state that they are not a corporation or other publicly held entity.

1. *Amici curiae* do not have any parent corporations.
2. No publicly held corporation or other publicly held entity owns 10% or more of the stock of *amici curiae*.
3. *Amici curiae* are unaware of any publicly held corporation or other publicly held entity that has a direct financial interest in the outcome of the litigation.
4. This case does not arise out of a bankruptcy proceeding or criminal case.

Dated: October 17, 2024

Respectfully submitted,

KEKER, VAN NEST & PETERS LLP

/s/ Anjali Srinivasan

ANJALI SRINIVASAN

SYDNEE J. ROBINSON

JONHATAN A. ARAGON

Attorneys for *Amici Curiae*

Reproductive Health Researchers

¹ A full list of whom is set forth in the Addendum hereto.

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INTERESTS OF *AMICI CURIAE*

Amici curiae are over 150 distinguished researchers, clinicians, and professors who have extensive expertise in public health research regarding abortion safety, access, and effectiveness in the United States. *Amici* submit this brief to assist the Court in understanding the body of research showing the safety and effectiveness of medication abortion provided via telehealth, and showing that various requirements imposed by North Carolina’s Abortion Laws do not in fact improve patient health and safety.² A full list of *amici* is attached as an addendum to this brief.

SUMMARY OF ARGUMENT

The State of North Carolina generally permits abortions during the first 12 weeks of pregnancy.³ In 2023, North Carolina enacted a series of laws, entitled “Abortion Laws” that impose additional abortion restrictions.⁴ As relevant here, these restrictions conflict with the U.S.

² *Amici* have no personal interest in the outcome of this case. *Amici* affirm that no party or counsel for any party authored this brief in whole or in part and that no one other than *amici* or their counsel contributed any money that was intended to fund the preparation or submission of this brief.

³ See N.C. Gen. Stat. § 90-21.81B(2).

⁴ See N.C. Gen. Stat. §§ 90-21.80–21.99 (2023).

Food and Drug Administration (“FDA”) requirements for the provision of medication abortion. For example, while the FDA permits medication abortions to be provided via telehealth by certified non-physician clinicians, North Carolina’s Abortion Laws demand that prior to receiving a medication abortion, pregnant individuals must attend an in-person consultation that includes a transvaginal ultrasound and a blood test, and also that a physician must administer the abortion medications to the patient in person.⁵

Evaluating the extent to which the FDA’s regulation of abortion medications preempt North Carolina’s Abortion Laws, the District Court held that the in-person consultation, transvaginal ultrasound, and blood test requirements were not pre-empted.⁶ In reaching this decision, the District Court suggested that North Carolina may have an interest in protecting pregnant individuals’ health and safety and in ensuring their informed consent to an abortion—independent from the

⁵ See N.C. Gen. Stat. §§ 90-21.83A(b), B(a)–(b).

⁶ *Bryant v. Stein*, No. 1:23-CV-77, 2024 WL 1886907, at *15 (M.D.N.C. Apr. 30, 2024), judgment entered, No. 1:23-CV-77, 2024 WL 3107568 (M.D.N.C. June 3, 2024).

FDA’s interest in the safe use of abortion medications.⁷ Seizing on this framing, Appellants characterize North Carolina’s additional abortion requirements as “regulat[ing] for health and safety” and for the “protection of women who use abortion inducing drugs.”⁸

Public health research, however, does not bear this out. For example, numerous studies show that requiring an in-person consultation, transvaginal ultrasound, or Rh-blood testing prior to receiving medication abortion does *not* improve the safety and effectiveness of medication abortion, nor do they render patients “better informed.” Indeed, telehealth abortion care, without these additional requirements, is now a standard practice. Moreover, research shows immense benefits of *not* requiring these steps, including improved access to care. This brief aims to bring to bear the public health research demonstrating that telehealth medication abortion is safe and effective—and that North Carolina’s Abortion Laws do not meaningfully improve the health and safety of pregnant individuals, the quality of

⁷ *Bryant v. Stein*, 2024 WL 1886907, at *9, *14–*15.

⁸ Appellant Br. at 4.

care these patients receive, nor do they contribute to patients’ informed consent.

As for North Carolina’s requirements that only a physician may prescribe and administer abortion medications, and must do so in person, the District Court held that federal law preempts these requirements. In so doing, the District Court correctly recognized that the FDA has already determined that any certified healthcare provider may prescribe and dispense abortion medication and may do so via telehealth. This brief also seeks to highlight the public health research—much of which the FDA also relied upon—demonstrating that qualified non-physicians may safely and effectively prescribe and administer abortion medications and may do so through telehealth.

ARGUMENT

A. Telehealth medication abortions are now standard practice.

Telehealth is now a standard method of providing abortion care.⁹

Medication abortion involves taking two drugs, mifepristone and

⁹ American College of Obstetricians and Gynecologists (“ACOG”), *ACOG Practice Bulletin No. 225: Medication Abortion Up to 70 Days of Gestation*, <https://www.acog.org/clinical/clinical-guidance/practice-bulletin/articles/2020/10/medication-abortion-up-to-70-days-of-gestation> (last accessed Oct. 10, 2024); World Health Organization, *Abortion Care*

misoprostol.¹⁰ Mifepristone works by blocking the action of a hormone, progesterone, needed to sustain a pregnancy.¹¹ Misoprostol causes uterine contractions, which expels the pregnancy.¹² The FDA-approved medication abortion protocol involves taking a 200 mg pill of mifepristone, followed by a dose of misoprostol, usually 24 to 48 hours later.¹³

In 2000, the FDA first approved mifepristone for medical termination of a pregnancy through seven weeks' gestation, and in 2016

Guideline (March 8, 2022),
<https://www.who.int/publications/i/item/9789240039483>.

¹⁰ FDA, *Postmarket Drug Safety Information for Patients and Providers: Questions and Answers on Mifepristone for Medical Termination of Pregnancy Through Ten Weeks Gestation*, <https://www.fda.gov/drugs/postmarket-drug-safety-information-patients-and-providers/questions-and-answers-mifepristone-medical-termination-pregnancy-through-ten-weeks-gestation#:~:text=When%20did%20the%20FDA%20approve,ten%20weeks%20gestation%20in%202016> (last accessed Oct. 10, 2024) (“FDA Postmarket Drug Safety Info.”).

¹¹ *Id.*

¹² KFF (formerly Kaiser Family Foundation), *The Availability and Use of Medication Abortion*, <https://www.kff.org/womens-health-policy/fact-sheet/the-availability-and-use-of-medication-abortion/> (last accessed Oct. 11, 2024).

¹³ See FDA Postmarket Drug Safety Info., *supra* note 10.

the FDA extended that time period to ten weeks.¹⁴ Medication abortion has since emerged as the leading abortion method in the U.S.¹⁵ In 2023, medication abortions accounted for 63% of all recorded abortions nationwide.¹⁶

In 2021, the FDA removed the in-person dispensing requirement for mifepristone, after years of urging by many organizations, including by the American College of Obstetricians and Gynecologists (“ACOG”), the leading professional and guideline-setting organization for obstetricians and gynecologists.¹⁷

¹⁴ Carrie N. Baker, *History and Politics of Medication Abortion in the United States and the Rise of Telemedicine and Self-Managed Abortion*, 48 J. Health Pol., Pol’y and Law, 485, 486 (2023); FDA Postmarket Drug Safety Info., *supra* note 10.

¹⁵ Baker, *supra* note 14 at 486; FDA Postmarket Drug Safety Info., *supra* note 10.

¹⁶ Rachel K. Jones and Amy Friedrich-Karnick, *Medication Abortion Accounted for 63% of All US Abortions in 2023-An Increase from 53% in 2020* (Guttmacher Policy Analysis, 2024), <https://www.guttmacher.org/2024/03/medication-abortion-accounted-63-all-us-abortions-2023-increase-53-2020>.

¹⁷ *ACOG Applauds the FDA for its Action on Mifepristone Access During the COVID-19 Pandemic* (ACOG News Release, 2021), <https://www.acog.org/news/news-releases/2021/04/acog-applauds-fda-action-on-mifepristone-access-during-covid-19-pandemic>; *Improving Access to Mifepristone for Reproductive Health Indications* (ACOG Position Statement, 2021), <https://www.acog.org/clinical-information/policy-and-position-statements/position->

Telehealth protocols mirror the protocols for in-person medication abortion care. To begin, providers typically require that patients complete an online screening form to assess their eligibility for a telehealth medication abortion.¹⁸ The form focuses on five criteria: 1) confirmation of pregnancy; 2) duration of pregnancy; 3) indications of ectopic pregnancy; 4) contraindications to abortion medications, such as medical conditions and drug allergies; and 5) patient preference for an in-person, pre-treatment ultrasound or pelvic examination.¹⁹

Providers then initiate a telephone call, video visit, or asynchronous message exchange with the patient to discuss their

statements/2018/improving-access-to-mifepristone-for-reproductive-health-indications; *ACOG Statement Regarding Telemedicine Abortion* (ACOG News Release, 2015), <https://www.acog.org/news/news-releases/2015/06/acog-statement-regarding-telemedicine-abortion>; Ushma D. Upadhyay, et al., *Effectiveness And Safety Of Telehealth Medication Abortion In The USA*, 30 *Nature Medicine* 1191, 1192 (2024), <https://www.nature.com/articles/s41591-024-02834-w> (“Upadhyay, et al., *Nature Medicine*”).

¹⁸ Elizabeth G. Raymond, et al., *Commentary: No-Test Medication Abortion: A Sample Protocol Increasing Access During a Pandemic and Beyond*, 101 *Contraception* 361, 362 (2020), [https://www.contraceptionjournal.org/article/S0010-7824\(20\)30108-6/pdf](https://www.contraceptionjournal.org/article/S0010-7824(20)30108-6/pdf).

¹⁹ *Id.*

screening form answers and their eligibility for a medication abortion.²⁰ This “no-test” protocol means no ultrasound or pelvic exam is required; however, depending on a patient’s responses, a provider may refer that patient to first obtain an ultrasound, or to in-person abortion care.²¹ It is important to emphasize that not all patients can have a no-test medication abortion. Given the strict screening criteria, many potential patients will not qualify. One study found as many as 27% of people who attempted to access a telehealth medication abortion did not qualify.²²

Once the provider determines that a patient is eligible, they review the abortion process and medication instructions with the

²⁰ Anna E. Fiastro, et al., *Remote Delivery in Reproductive Health Care: Operation of Direct-to-Patient Telehealth Medication Abortion Services in Diverse Settings*, 20 *Annals of Family Medicine* 336, 338 (2022) (“Fiastro, et al., *Remote Delivery*”).

²¹ See, e.g., Planned Parenthood Pasadena & San Gabriel Valley, *Overview of the Abortion Pill (via Telehealth)*, <https://www.plannedparenthood.org/planned-parenthood-pasadena-san-gabriel-valley/getcare/abortion-services/abortion-pill-via-telehealth> (last accessed Oct. 10, 2024).

²² Anna E. Fiastro, et al., *Patient Characteristics Associated With Choosing Telehealth vs. In-Clinic Medication Abortion Care* 121 *Contraception* 110019 (2023), supplemental online content available at <https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2809068> at eFigure.

patient, discuss potential risks, and answer patient questions.²³ The patient is then asked to provide their consent to the abortion via an online consent form.²⁴ Informed consent procedures aim to document a patient’s understanding of the general procedure for a telehealth medication abortion, as well as its limitations and potential complications.²⁵ As part of its Risk Evaluation and Mitigation Strategy (“REMS”) program, the FDA further requires that all patients and their providers complete its Patient Agreement Form, which also details the medication protocol, its risks, common side effects, and signs of potential complications.²⁶

Following the consultation, the provider usually mails the patient their medications or sends a prescription to a mail-order pharmacy.²⁷

²³ Raymond, et al., *supra* note 18 at 362; *see also*, Baker, *supra* note 14.

²⁴ Reproductive Health Access Project, *Consent For An Abortion With Pills*, https://www.reproductiveaccess.org/wp-content/uploads/2015/03/2022-04-RHAP-MAB-Consent-Form_final.pdf (last accessed Oct. 10, 2024).

²⁵ *Id.*

²⁶ FDA, *Patient Agreement Form*, https://www.accessdata.fda.gov/drugsatfda_docs/rems/Mifepristone_2023_01_03_Patient_Agreement_Form.pdf (last accessed Oct. 10, 2024) (“FDA Patient Agreement Form”).

²⁷ Raymond, et al., *supra* note 18; Alice Mark, et al., *The Future Of Abortion Is Now: Mifepristone By Mail And In-Clinic Abortion Access In*

The provider may also make the medications available for local pickup.²⁸ As mandated by the FDA, the medications are delivered with a Mifepristone Medication Guide, which includes a complete set of instructions for safe use.²⁹ Providers instruct patients to take a pregnancy test four weeks after the abortion to ensure the procedure is complete.

In addition to any scheduled follow-up appointments, patients can also consult with their providers as needed.³⁰ Clinics typically incorporate an option for immediate assistance, such as text-messaging and phone calls, as well as access to patient portals with educational materials and frequently asked questions.³¹

Consistent with the FDA’s determinations, clinics and patients have successfully employed telehealth medication abortion for the past

The United States 104 Contraception 38 (2021), [https://www.contraceptionjournal.org/article/S0010-7824\(21\)00109-8/fulltext](https://www.contraceptionjournal.org/article/S0010-7824(21)00109-8/fulltext).

²⁸ Raymond, et al., *supra* note 18.

²⁹ *Id.*; FDA, *Mifeprex Medication Guide*, <https://www.fda.gov/media/72923/download> (last accessed Oct. 11, 2024) (“FDA Medication Guide”).

³⁰ Fiastro, et al., *Remote Delivery*, *supra* note 20, at 339.

³¹ *Id.*; *see also* Baker, *supra* note 14 at 495.

four years. As of March 2024, telehealth medication abortions accounted for almost 20% of all abortions in the country.³² There are nearly 20,000 telehealth medication abortions provided per month nationwide.³³

1. Telehealth abortion care is safe and effective.

Extensive public health research confirms that medication abortion provided via telehealth is both safe and effective. Researchers define safety as the absence of serious adverse events throughout the course of the treatment, and define effectiveness as completion of an abortion without additional intervention.³⁴ Multiple studies show no decrease in safety or effectiveness for medication abortion via telehealth as opposed to in person.³⁵

³² *#WeCount Report*, (Society of Family Planning, 2024), <https://doi.org/10.46621/878086iuzegt>, at Table 4.

³³ *Id.* at Figure 6.

³⁴ Upadhyay, et al., *Nature Medicine*, *supra* note 17 at 1192.

³⁵ *Id.* at 1194; Holly A. Anger, et al., *Clinical and Service Delivery Implications Of Omitting Ultrasound Before Medication Abortion Provided Via Direct-To-Patient Telemedicine And Mail In The U.S.* 104 *Contraception* 659 (2021), <https://pubmed.ncbi.nlm.nih.gov/34329607/> (“Anger, et al., 2021”); Holly A. Anger, et al., *Clinical And Service Delivery Outcomes Following Medication Abortion Provided With Or Without Pretreatment Ultrasound Or Pelvic Examination: An Updated Comparative Analysis* *Contraception* (2024), online ahead of print at:

Recently, researchers from the University of California, San Francisco published the results of the California Home Abortion by Telehealth (“CHAT”) Study, which evaluated the safety and effectiveness of over 6,000 telehealth medication abortions. The reference to California notwithstanding—the study followed patients at three virtual clinics operating in 20 states and Washington D.C. between April 2021 and January 2022.³⁶ Individuals were screened based on the “no-test” protocol described above, and ultimately 6,034 telehealth abortions were provided. The study found that there was no difference in safety and effectiveness between telehealth abortion care and in-person medication abortion care.³⁷ Specifically, the CHAT Study

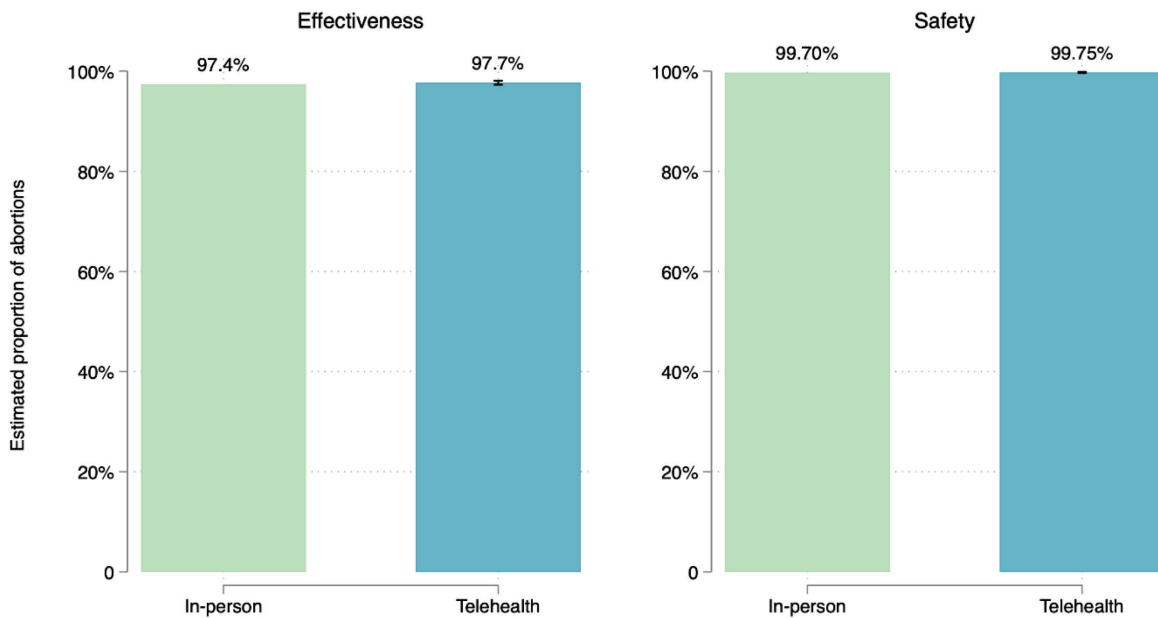
doi: 10.1016/j.contraception.2024.110552 (“Anger, et al., 2024”); Courtney Kerestes, et al., *Provision Of Medication Abortion In Hawai‘i During COVID-19: Practical Experience With Multiple Care Delivery Models* 104 *Contraception* 49 (2021), <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8005318/>; Lauren J. Ralph, et al., *Comparison of No-Test Telehealth and In-Person Medication Abortion*, 332 *JAMA* 898 (2024), <https://jamanetwork.com/journals/jama/article-abstract/2820321>; Silpa Srinivasulu, et al., *Telehealth Medication Abortion in Primary Care: A Comparison to Usual in-Clinic Care*, 37 *J. of the Am. Board of Family Medicine*, 295 (2024);

³⁶ Upadhyay, et al., *Nature Medicine*, *supra* note 17 at 1191–98.

³⁷ *Id.*

showed that 97.7% of telehealth abortions were effective, and 99.7% were safe, meaning no adverse event followed.³⁸ As reflected in Figure 1 below, these results are similar to the safety and effectiveness of in-person medication abortion care in the U.S., as shown by previous studies and summarized on the FDA medication label for mifepristone.

Figure 1. Abortion effectiveness and safety estimates: telehealth and published estimates of in-person care.



Sources
In-person dispensing: US Food and Drug Administration Label for Mifepristone, 2016.
Telehealth dispensing: Upadhyay UD *et al.* Effectiveness and safety of telehealth medication abortion in the USA. *Nature Medicine*, 2024.

³⁸ Notably, effectiveness remained the same across many variables, including age, pregnancy duration, race, ethnicity, previous birth, previous abortion, or whether the patient had received a pre-abortion ultrasound. *Id.*

The CHAT Study reaches similar results as earlier research.³⁹ In a 2021 study, researchers evaluated asynchronous, fully-remote medication abortion care provided to 141 patients in the U.S. In that more limited sample, researchers found that 95% of patients had a complete abortion and zero patients reported any serious adverse events.⁴⁰ This comports with research from the United Kingdom spanning 52,142 patients demonstrating that no-test telehealth abortion is safe and effective.⁴¹ In short, a significant body of research confirms that telehealth abortion care is as safe and effective as in-person care.⁴²

³⁹ See Anger, et al., 2024, *supra* note 35; Ralph, et al., *supra* note 35.

⁴⁰ Ushma D. Upadhyay, et al., *Safety and Efficacy of Telehealth Medication Abortions in the US During the COVID-19 Pandemic*, JAMA Network Open (2021) (“Upadhyay, et al., JAMA”).

⁴¹ Aiken A, Lohr, et al., *Effectiveness, Safety And Acceptability Of No-Test Medical Abortion (Termination Of Pregnancy) Provided Via Telemedicine: A National Cohort Study*, 128 BJOG 1464 (2021); The World Health Organization has also determined that medication abortion need not be dispensed in person for it to be safe and effective. See, e.g., World Health Organization, *Abortion Care Guideline*, *supra* note 9.

⁴² See Leonardo Cely-Andrade, et al., *Telemedicine For The Provision Of Medication Abortion To Pregnant People At Up To Twelve Weeks Of Pregnancy: A Systematic Literature Review And Meta-Analysis* 21 Reprod. Health 136 (2024) <https://doi.org/10.1186/s12978-024-01864-4> (meta-analysis of 21 articles published between 2011 and 2022,

Moreover, contrary to the arguments of *amici* in support of Defendants-Appellants, Heartbeat International and Advancing American Freedom, et al., an overwhelming body of research demonstrates that medication abortion itself is safe and effective.⁴³ Those *amici* misrepresent the studies upon which they purport to rely. For example, they offer a study by Niinimaki, et al., which they argue demonstrates that medication abortion causes adverse events. Heartbeat Int'l Br. at 8; Advancing American Freedom Br. at 20. However, that study classified any patient consultation regarding excess bleeding as a “hemorrhage” or an “adverse event,” even when it did not justify treatment, leading to overestimates of “adverse events.”⁴⁴ They also cite a study by Ushma Upadhyay, et al., which found that in

concluding there are no significant differences in safety, effectiveness, or patient satisfaction when comparing telehealth to in-person abortion care).

⁴³ See, e.g. Amy S. Walker, et al., *Are Abortion Pills Safe? Here's the Evidence*. N.Y. Times, April 1, 2023 (updated February 2024), <https://www.nytimes.com/interactive/2023/04/01/health/abortion-pill-safety.html>. (referencing more than 100 scientific studies concluding that medication is a safe method for terminating a pregnancy).

⁴⁴ Maarit Niinimaki, et al., *Immediate Complications After Medical Compared With Surgical Termination Of Pregnancy*, 114 *Obstetrics & Gynecology* 795 (2009). This is particularly problematic because the medication is itself intended to cause significant bleeding.

some instances additional treatments were needed to complete a medication abortion.⁴⁵ *See* Heartbeat Intl. Br. at 7–8. But that further treatments are sometimes required is not a reflection of the medication’s *safety* as *amici* suggest.⁴⁶

Advancing American Freedom, et al., also rely on clinical trials from the 1980s—long before the current dosing protocols were established—to suggest mifepristone is unsafe. Adv. American Freedom Br. at 16–19. For example, in one of the cited studies, 11 women in Geneva were given 200 mg of mifepristone each day for three consecutive days and no misoprostol; unsurprisingly, only 9 of the 11 pregnancies were successfully terminated. *Id.* The current FDA-approved protocol is a single dose of 200 mg of mifepristone followed by a dose of misoprostol 24 to 48 hours later. These cited clinical trials are thus inapposite, at best.

⁴⁵ Ushma D. Upadhyay, et al., *Incidence Of Emergency Department Visits And Complications After Abortion*, 125 *Obstetrics & Gynecology* 175 (2015).

⁴⁶ *See also* Ushma D. Upadhyay and Chris E. Adkins, *Deception By Obfuscation: Studnicki et al.’s Retracted Longitudinal Cohort Study Of Emergency Room Utilization Following Abortion*, 134 *Contraception* 110417 (2004).

2. Telehealth abortion care adequately facilitates patients' informed consent.

The District Court identified improved informed consent as another potential benefit of the Abortion Laws' in-person consultation requirements. However, research shows that not only is telehealth abortion care safe and effective, it also provides sufficient guardrails to ensure a patient's informed consent.

Informed consent refers to the process of explaining a medical procedure and associated risks to the patient and having the patient agree to undergo a procedure.⁴⁷ The American Medical Association Model Code of Ethics outlines the following steps providers should take to ensure a patient's informed consent:

1) Assess the patient's understanding of the relevant medical information and the implications of treatment alternatives and their ability to make an independent, voluntary decision;

2) Provide relevant information with care, in keeping with the patient's preferences for receiving medical information, including where

⁴⁷ American Medical Association, *Code of Medical Ethics, Opinion 2.1.1: Informed Consent*, <https://code-medical-ethics.ama-assn.org/ethics-opinions/informed-consent> (last accessed Oct. 11, 2024).

that information concerns the burdens, risks, and expected benefits of all options; and

3) Document the informed consent conversation and the patient's decision in the patient's medical record.⁴⁸

Telehealth informed consent procedures meet all three of these standards.⁴⁹ As described above, the telehealth process screens eligible patients according to a "no-test" protocol. Providers then contact patients to discuss their screening form answers and ensure the patient understands the risks associated with medication abortions. Patients then provide their consent online. The FDA's REMS program further requires that all patients sign the FDA's Patient Agreement Form and receive a Mifepristone Patient Medication Guide, both of which describe how to take the medications, side effects, and the risks and warning signs of a potential adverse event.⁵⁰

⁴⁸ *Id.*

⁴⁹ Shelly Kaller, et al., *Pre-Abortion Informed Consent Through Telemedicine vs. in Person: Differences in Patient Demographics and Visit Satisfaction*, 31 *Women's Health Issues* 227, 228 (2021), <https://www.sciencedirect.com/science/article/abs/pii/S1049386721000116>.

⁵⁰ FDA Patient Agreement Form, *supra* note 26; FDA Medication Guide, *supra* note 29.

Telehealth offers many opportunities for patients and providers to build trust and rapport, despite the lack of in-person communication. Telehealth patients can select between providers who offer care synchronously or asynchronously, and can also select to receive care over the phone, via secure messaging, or face-to-face if needed or preferred.⁵¹ The availability of multiple methods for communicating is likely helpful to individuals in digesting and understanding information.⁵²

To the extent patient satisfaction reflects patient comfort and informed consent to the procedure, research shows that patients experience a high level of trust with telehealth abortion care. In one study, researchers surveyed the experiences of 1,600 patients who had a telehealth abortion between 2021 to 2022. The study found that most

⁵¹ Amy Tressan, et al., *Telemedicine Abortion in Primary Care: An Exploration of Patient Experiences*, 22 *Annals of Family Medicine* 19 (2024), <https://pmc.ncbi.nlm.nih.gov/articles/PMC11233084/>.

⁵² Emily M. Godfrey, et al., *Patient Perspectives Regarding Clinician Communication During Telemedicine Compared With In-Clinic Abortion*, 141 *Obstetrics & Gynecology* 1139 (2023), <https://doi.org/10.1097/AOG.0000000000005192>.

patients trusted the provider (98%), felt telehealth was the right decision (96%), and felt cared for (92%).⁵³

Another study, published in 2023, reported similar results. The study involved qualitative interviews of 30 abortion patients—20 of whom received telehealth care and 10 who received in-person care from a facility in Washington State.⁵⁴ The telemedicine patients reported “high-quality patient-clinician communication.”⁵⁵

Finally, while *amicus curiae* Heartbeat International suggest that telehealth care renders it more difficult to ascertain whether a patient’s consent is truly voluntary and not the product of coercion or outside influence, they offer no studies to support that argument.⁵⁶ Indeed, one study focused on this question concluded that a patient is no more likely to disclose coercion during an in-person consultation than they would

⁵³ Leah R. Koenig, et al., *Patient Acceptability of Telehealth Medication Abortion Care in the United States, 2021–2022: A Cohort Study*, 114 *American Journal of Public Health* 241, Table 2 (2024) <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10862199>; Tressan, et al., *supra* note 51.

⁵⁴ Godfrey, et al., *supra* note 52.

⁵⁵ *Id.*

⁵⁶ Heartbeat Int’l Br. at 12.

remotely.⁵⁷ The study explained that the privacy and numerous methods of communication available via telehealth may actually better facilitate patients' disclosure of coercion.⁵⁸

The research thus indicates that the benefits of telehealth care do not come at the expense of a patient's ability to provide informed consent for medication abortion.⁵⁹

3. Telehealth offers patients high quality of care and several benefits over in-person abortion care.

Research shows that telehealth abortions offer patients significant advantages over in-person care.⁶⁰ In one survey, patients most commonly cited privacy (76%), timeliness (74%), and the ability to avoid

⁵⁷ Elizabeth C. Romanis, et al., *Safeguarding and Teleconsultation For Abortion*, 298 *The Lancet* 555, 556 (2021), [https://www.thelancet.com/journals/lancet/article/PIIS01406736\(21\)01062X/fulltext#:~:text=Most%20objections%20to%20telemedical%20abortion%20by%20politicians%20and,home%20administration%20of%20the%20drugs%20themselves%20are%20unfounded.](https://www.thelancet.com/journals/lancet/article/PIIS01406736(21)01062X/fulltext#:~:text=Most%20objections%20to%20telemedical%20abortion%20by%20politicians%20and,home%20administration%20of%20the%20drugs%20themselves%20are%20unfounded.)

⁵⁸ *Id.*

⁵⁹ Heartbeat International claims that without in-person counseling, patients are at increased risk for regret and psychological sequelae. Heartbeat Int'l Br. at 8. But there is zero evidence to suggest that mental health outcomes would be different between people who have a telehealth versus in-person abortion, and Heartbeat International does not offer any.

⁶⁰ Koenig, et al., *supra* note 53; Tressan et al., *supra* note 51.

traveling out of the home (71%) among the top benefits of telehealth abortion.⁶¹

Cost is a significant concern for many patients. In most states, including North Carolina, public insurance, *e.g.* Medicaid and similar state-run programs, do not cover abortion care.⁶² Accordingly, many patients must pay out of pocket for the procedure. Online abortion providers can charge less than in-clinic providers by avoiding rent and other costs associated with maintaining a brick-and-mortar location.⁶³ As a result, purely virtual clinics offer telehealth abortion care for an average of \$150, versus the \$600 average cost for in-person medication abortion care in North Carolina.⁶⁴

⁶¹ Koenig, et al., *supra* note 53.

⁶² Alina Salganicoff, et al., *Coverage for Abortion Services in Medicaid, Marketplace Plans and Private Plans* (KFF, 2019), <https://www.kff.org/womens-health-policy/issue-brief/coverage-for-abortion-services-in-medicare-marketplace-plans-and-private-plans/>.

⁶³ Baker, *supra* note 14 at 495; *see also Appointments and Cost* (Carafem, 2024), <https://carafem.org/cost/>; Mark, et al., *supra* note 27 ; Ushma D. Upadhyay, et al., *Pricing Of Medication Abortion In The United States, 2021-2023*, Perspectives on Sexual and Reproductive Health (2024), <https://onlinelibrary.wiley.com/doi/full/10.1111/psrh.12280> (“Upadhyay et al., *Pricing*”).

⁶⁴ Upadhyay et al., *Pricing*, *supra* note 63 at Table 2.

Studies show that privacy may be better addressed through telehealth care. For example, in the earlier described survey of 1,600 telehealth abortion patients, one study respondent explained:⁶⁵

I felt more comfortable and less anxious about the whole process from being able to be home. I really appreciate having the opportunity to be in the comfort of my own home for the abortion and with my spouse for the entire duration and not in a cold room with strangers to have an uncomfortable procedure.

In another study, researchers interviewed 14 patients who obtained telehealth medication abortions. One respondent explained:⁶⁶

I was actually really sick during that pregnancy. I was vomiting the whole time up until the end of the abortion. So that was definitely a plus of not having to leave the house and be able to be in the comfort of my home and have the visits there.

Another important aspect of telehealth is the ability to close the distance and shorten the time to care, making abortion more accessible. Time, travel, the need to potentially arrange for time off from work or for childcare, and the costs related to these factors, are frequently cited

⁶⁵ Koenig, et al., *supra* note 53 at 243.

⁶⁶ Tressan, et al., *supra* note 51 at Table 1.

as obstacles to obtaining in-person abortion care. In the same study, one patient explained: ⁶⁷

I have kids, so honestly, everywhere I will be going, I will be going with them, because I have no one to stay with them... And also the transport fare. I don't drive, so I have to transport myself to the hospital. Then the stress of looking after the kids, while I, at the same time, see the doctor, and all the examination processes. So [telemedicine] was quite convenient for me.

In North Carolina, the average distance to the closest in-person abortion care facility is 29 miles but the range is 6 to 127 miles.⁶⁸

Traveling up to 127 miles each way for an in-person consultation and then again for the procedure can pose a significant barrier to many.⁶⁹

Moreover, clinics are often booked weeks out for in-person visits and

⁶⁷ *Id.* Fifty-five percent of people seeking abortion already have children. Rachel K. Jones, *Medicaid's Role In Alleviating Some Of The Financial Burden Of Abortion: Findings From The 2021-2022 Abortion Patient Study*, Perspectives on Sexual and Reproductive Health (2024), <https://onlinelibrary.wiley.com/doi/10.1111/psrh.12250>.

⁶⁸ Caitlin Myers, *Myers Abortion Facility Database* (October 9, 2024), <https://doi.org/10.17605/OSF.IO/8DG7R>.

⁶⁹ Jill Barr-Walker, et al., *Experiences of Women Who Travel For Abortion: A Mixed Methods Systematic Review*. 14 PloS one, e0209991 (2019); Katrina Kimport, et al., *Exploring The Emotional Costs Of Abortion Travel In The United States Due To Legal Restriction*, 120 Contraception 109956 (2023); Ortal Wasser, et al., *Experiences Of Delay-Causing Obstacles And Mental Health At The Time Of Abortion Seeking*, 6 Contraception: X 100105 (2024).

timing is often a crucial consideration because abortions are not available in North Carolina after 12 weeks.

In the CHAT Study, patients avoided an average of 1 hour and 25 minutes of round-trip public transit time by opting for telehealth.⁷⁰ Among a subsample of 1,586 CHAT Study patients surveyed, 43% reported that telehealth made it possible for them to obtain timely care. Telehealth was most likely to make it possible to have a timely abortion for people who are most disadvantaged: patients under age 25, rural patients, those experiencing food insecurity, and those who would otherwise need to travel over 100 miles to their closest abortion facility.⁷¹

B. Extensive research demonstrates that mandatory transvaginal ultrasounds, and Rh-blood testing do not improve patient health and safety outcomes for abortion care.

Research shows that North Carolina’s requiring of universal transvaginal ultrasounds and Rh-blood testing do not improve the safety or effectiveness of medication abortions. These requirements—

⁷⁰ Leah R. Koenig, et al., *The Role of Telehealth in Promoting Equitable Abortion Access in the United States: Spatial Analysis*, 9 JMIR Public Health Surveillance (2023), <https://publichealth.jmir.org/2023/1/e45671>.

⁷¹ *Id.*

contrary to the District Court’s suggestion—also do not contribute to a patient’s ability to provide informed consent.

- 1. Telehealth practitioners can verify pregnancy and its duration and identify risks of ectopic pregnancy without requiring that all patients be subject to a transvaginal ultrasound.**

Typically, a clinician has three key goals when evaluating a patient prior to a medication abortion: (1) confirm the pregnancy is within the gestational limit for effective and safe treatment; (2) establish that the patient has no other contraindications to medication abortion; and (3) identify any potential ectopic pregnancy.⁷² North Carolina’s requirement that every person receive a transvaginal ultrasound prior to obtaining a medication abortion is unnecessary for meeting these clinical goals.⁷³ A transvaginal ultrasound involves the insertion of a wand-like instrument called a transducer into a person’s vagina where it releases sound waves that bounce off the various structures inside the pelvis to produce an image of the pelvic region.⁷⁴

⁷² Raymond, et al., *supra* note 18, at 363.

⁷³ See N.C. Gen. Stat. § 90-21.83A(b)(2)(b).

⁷⁴ Mayo Clinic, *Transvaginal Ultrasound* (2024), <https://www.mayoclinic.org/diseasesconditions/pcos/multimedia/transvaginal-ultrasound/img-20007770>.

Experts suggest that a transvaginal ultrasound can be triggering, especially for trauma survivors.⁷⁵ Research shows that all three of the clinical evaluation goals for medication abortion can be achieved without requiring universal transvaginal ultrasounds.

First, to confirm pregnancy, a patient can take a high-sensitivity urine pregnancy test as part of a telehealth consultation.⁷⁶ These tests are highly accurate and if results are unclear, a patient can take a second test. Providers can then assess pregnancy duration based on

⁷⁵ Jessica N. Coleman, et al., *Psychological Distress And Pain Related To Gynecologic Exams Among Female Survivors Of Sexual And Physical Violence: A Systematic Review*, 37 *J. of Traumatic Stress* 217 (2024), <https://onlinelibrary.wiley.com/doi/abs/10.1002/jts.23006>; Monika Krolak, et al., *Prevalence Of Medically Induced Psychological Trauma And Its Influence On Women's Health*, 161 *Int'l J. of Gynecology & Obstetrics* 568 (2023), <https://obgyn.onlinelibrary.wiley.com/doi/full/10.1002/ijgo.14691>; Nina M. Carroll and Amy Banks, *Health Care For Female Trauma Survivors (With Posttraumatic Stress Disorder Or Similarly Severe Symptoms)* (UpToDate, 2024), (last accessed Oct. 11, 2024), <https://www.uptodate.com/contents/health-care-for-female-trauma-survivors-with-posttraumatic-stress-disorder-or-similarly-severe-symptoms/print>.

⁷⁶ Raymond, et al., *supra* note 18 at 363; Carrie N. Baker, *How Telemedicine Startups are Revolutionizing Abortion Health Care in the U.S.*, *Ms. Magazine* (Nov. 16, 2020), <https://msmagazine.com/2020/11/16/just-the-pill-choix-carafem-honeybee-health-how-telemedicine-startups-are-revolutionizing-abortion-health-care-in-the-u-s/>.

patients' answers to a few basic questions including the date of their last menstrual period.⁷⁷ Assuming the accuracy of ultrasound-based duration determinations, one study published in 2022 demonstrated that patients' self-reported last menstrual period date as well as their answers to associated questions—for example, when they think they got pregnant, or when their first positive pregnancy test was—accurately

⁷⁷ Hillary Bracken, et al., *Alternatives to Routine Ultrasound For Eligibility Assessment Prior To Early Termination Of Pregnancy With Mifepristone–Misoprostol*. 118 BJOG 17 (2011), <https://obgyn.onlinelibrary.wiley.com/doi/10.1111/j.1471-0528.2010.02753.x>; Lauren J. Ralph, et al., *Accuracy Of Self-Assessment Of Gestational Duration Among People Seeking Abortion*, 226 Am. J. of Obstetrics & Gynecology 710 (2022), [https://www.ajog.org/article/S0002-9378\(21\)02683-1/fulltext](https://www.ajog.org/article/S0002-9378(21)02683-1/fulltext); Charlotte Ellertson, et al., *Accuracy Of Assessment Of Pregnancy Duration By Women Seeking Early Abortions*, 355 The Lancet 9207 (2000), [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(99\)10170-3/abstract](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(99)10170-3/abstract). *Amicus curiae* Heartbeat International point to a study that reports that half of all women could not accurately recall the date. Heartbeat Int'l Br. at 5. While the study they refer to found that only 56% of women accurately recalled the date of their last menstrual period, 74% of women were within 1 day and 84% were within 3 days. Ganesa Wegienka & Donna D. Baird, *A Comparison Of Recalled Date Of Last Menstrual Period With Prospectively Recorded Dates*, 14 J. of Women's Health 248 (2005). In the most commonly used telehealth abortion protocol, if a potential patient cannot recall the date of their last menstrual period within a week, they would not qualify for a telehealth abortion and would be referred out for an ultrasound or in-person abortion care.

screened 96% of participants as eligible based on pregnancy duration.⁷⁸

Moreover, an exact pregnancy duration is not necessary, so long as the provider can assess that the pregnancy is ten or fewer weeks along.

Should these non-invasive efforts prove inconclusive, individual patients who need additional diagnostic testing can be referred for an ultrasound or in-person abortion care.

Because the research shows that an assessment based on the patient-reported date of last menstrual period and other related questions can very accurately identify pregnancy duration of over ten weeks, there is no reason to universally require transvaginal ultrasounds for the purpose of determining pregnancy duration.

Because these other methods are highly accurate, contrary to the District Court's suggestion, a patient also need not undergo an ultrasound in order to have "required gestational age information obtained through a reliable method before she makes a decision" as to consent.⁷⁹

⁷⁸ Ralph, et al., *supra* note 77 at Table 4.

⁷⁹ *Bryant v. Stein*, 2024 WL 1886907, at *13.

Requiring universal transvaginal ultrasounds is also not necessary for identifying ectopic pregnancies. Instead, during telehealth consultations, providers ask a series of questions to determine whether the patient may be at high risk for an ectopic pregnancy.⁸⁰ Those designated as high risk can then be referred for in-person care and ultrasounds and other diagnostic tests as needed.⁸¹ Perhaps most importantly, if a pregnancy is ectopic, a patient will not experience bleeding from the medication, but the medication itself does not increase any health risks.⁸² In fact, to the extent telehealth allows more timely abortion care, it may accelerate the detection and treatment of ectopic pregnancies when a patient does not have bleeding after taking abortion medications.⁸³

In sum, universally requiring transvaginal ultrasounds is an unnecessarily invasive and needlessly costly method for clinical evaluation prior to medication abortion. There are sufficient

⁸⁰ Raymond, et al., *supra* note 18 at 2.

⁸¹ *Id.*

⁸² Raymond, et al., *supra* note 18 at 361.

⁸³ Antonia Biggs, et al., *Experiences of Ectopic Pregnancy Among People Seeking Telehealth Abortion Care*, 134 *Contraception* 110405 (2024), <https://www.sciencedirect.com/science/article/pii/S0010782424000581>.

alternatives that can achieve similar results in terms of confirming a pregnancy and its duration and location. As shown by the CHAT Study, and other similar studies regarding telehealth discussed above, forgoing transvaginal ultrasounds for patients who qualify for a no-test telehealth abortion has no overall impact on the safety and effectiveness of the medication abortion procedure.⁸⁴

2. Research demonstrates that Rh-blood testing is not necessary for first-trimester abortions.

North Carolina’s Abortion Laws require an Rh-blood type test⁸⁵ and the provision of “[i]nformation about Rh incompatibility” as part of the informed consent process prior to a medication abortion.⁸⁶ However, research shows that neither requirement is medically necessary for first-trimester abortions.

Rh (or Rhesus) factor is a protein that can be found on the surface of red blood cells.⁸⁷ People often refer to this in conjunction with their

⁸⁴ Upadhyay et al., *Nature Medicine*, *supra* note 17 at 1195, Table 2.

⁸⁵ N.C. Gen. Stat. § 90-21.83B(a)(2).

⁸⁶ N.C. Gen. Stat. § 90-21.83A(b)(2)(g).

⁸⁷ ACOG, *The Rh Factor: How It Can Affect Your Pregnancy*, <https://www.acog.org/womens-health/faqs/the-rh-factor-how-it-can-affect-your-pregnancy> (last accessed Oct. 10, 2024).

blood type, for example “A positive” or “O negative” with positive or negative referring to the presence or absence of Rh factor.

Approximately only 15% of the U.S. population has Rh-negative blood.⁸⁸

When an individual with Rh-negative blood carries a fetus with Rh-positive blood to term, and if the two blood types mix, Rh incompatibility or “sensitization” may occur, meaning the Rh-negative pregnant individual may produce Rh antibodies in response to the Rh-positive fetal blood cells.⁸⁹ While there may not be impacts on the instant pregnancy, this “sensitization” can cause significant complications in future pregnancies carried to term whereby the maternal antibodies may attack the fetal blood cells of a future Rh-positive fetus.⁹⁰ Administering Rh immunoglobulin can stop the pregnant individual’s body from producing Rh antibodies and prevent these potential subsequent complications.⁹¹

⁸⁸ Sarah Horvath, et al., *Society of Family Planning Committee Consensus On Rh Testing In Early Pregnancy*, 114 *Contraception* 1, 2 (2022) (“Horvath, et al., *Society of Family Planning*”).

⁸⁹ ACOG, *The Rh Factor*, *supra* note 87; Horvath, et al., *Society of Family Planning*, *supra* note 88.

⁹⁰ ACOG, *The Rh Factor*, *supra* note 87.

⁹¹ *Id.*

The obstetrician gynecologist community agrees that Rh immunoglobulin yields significant medical benefits if administered to those at risk in the *third trimester* or shortly after delivery—when there is sufficient fetal blood and sufficient opportunity for it to mix with maternal blood.⁹² However, research no longer supports its use earlier in pregnancy.

Accordingly, many national and international guidelines, including the World Health Organization, the Society of Family Planning, and the Royal College of Obstetricians and Gynecologists no longer recommend Rh testing or immunoglobulin administration prior to 12 weeks' gestation.⁹³ The National Abortion Federation's Clinical Policies Committee, and ACOG, similarly recommend forgoing Rh testing and immunoglobulin for induced abortions before 12 weeks.⁹⁴

⁹² Horvath, et al., *Society of Family Planning*, *supra* note 88.

⁹³ Sarah Horvath, et al., *Economic Analysis Of Foregoing Rh Immunoglobulin For Bleeding In Pregnancy <12 Weeks Gestation*, 139 *Contraception* 110530, 2 (2024) (“Horvath, et al., *Economic Analysis*”).

⁹⁴ Horvath, et al., *Society of Family Planning*, *supra* note 88; ACOG, *Clinical Practice Update Rh D Immune Globulin Administration After Abortion or Pregnancy Loss at Less Than 12 Weeks of Gestation* (Sep. 10, 2024), https://journals.lww.com/greenjournal/fulltext/9900/rh_d_immune_globulin_administration_after_abortion.1145.aspx; *see also* Michelle Chan, et

Historically, Rh testing and Rh immunoglobulin administration was also recommended during the early stages of pregnancy, but the research supporting that recommendation has since been found unreliable.⁹⁵ Those older studies, experts explain, only evaluated the occurrence of fetal-maternal hemorrhage during early pregnancy, as opposed to whether sensitization in fact followed, or whether there was any impact on future pregnancy outcomes.⁹⁶ These older studies were additionally problematic because they were based on “outdated methods

al., *Rhesus Isoimmunisation In Unsensitised Rhd-Negative Individuals Seeking Abortion At Less Than 12 Weeks’ Gestation: A Systematic Review*, 48 *BMJ Sexual & Reprod. Health* 163 (2022), <http://dx.doi.org/10.1136/bmjsexrh-2021-201225>; Sarah Horvath, et al., *Induced Abortion and the Risk of Rh Sensitization*, 330 *JAMA* 1167, 1167 (2023) (“Horvath, et al., *Induced Abortion*”); Stefanie J. Hollenbach, et al., *“Provoked” Feto-Maternal Hemorrhage May Represent Insensible Cell Exchange In Pregnancies From 6 To 22 Weeks Gestational Age*, 100 *Contraception* 142 (2019), <http://dx.doi.org/10.1016/j.contraception.2019.03.051>; Ellen R. Wiebe, *Can We Safely Stop Testing For Rh Status And Immunizing Rh-Negative Women Having Early Abortions? A Comparison Of Rh Alloimmunization In Canada And The Netherlands*, 1 *Contraception: X* 100001 (2019) <http://dx.doi.org/doi.org/10.1016.j.conx.100001>; Alice Mark, et al., *Foregoing Rh testing and anti-D immunoglobulin for women presenting for early abortion: a recommendation from the National Abortion Federation’s Clinical Policies Committee*, 99 *Contraception* 265 (2019) (“Mark, et al., *Foregoing Rh Testing*”).

⁹⁵ Horvath, et al., *Economic Analysis*, *supra* note 93.

⁹⁶ Mark, et al., *Foregoing Rh Testing*, *supra* note 94.

of abortion including sharp curettage” and relied on “unclear gestational age dating” and on blood tests with methodological limitations.⁹⁷

In contrast, more recent research based on improved methods and data shows that Rh testing and administering Rh immunoglobulin during the first trimester offers *no* statistically significant health or safety benefits.⁹⁸ This is because during the first trimester there is limited fetal blood circulating, and little chance for sensitization to occur. A 2022 study of 506 participants undergoing medication or procedural abortion care during the first 12 weeks of pregnancy without receiving any Rh immunoglobulin found that all but one participant had no indication of Rh sensitization.⁹⁹ In other words, the study found that

⁹⁷ *Id.*

⁹⁸ Horvath, et al., *Induced Abortion*, *supra* note 94; Sarah Horvath, et al., *The Concentration Of Fetal Red Blood Cells In First-Trimester Pregnant Women Undergoing Uterine Aspiration Is Below The Calculated Threshold For Rh Sensitization*, 102 *Contraception* 1 (2020).

⁹⁹ Horvath, et al., *Induced Abortion*, *supra* note 94. The one participant who had fetal red blood cell counts above the published threshold for Rh sensitization after the abortion had above-threshold fetal red blood cell counts before the abortion. *Id.*

administering Rh immunoglobulin after a first-trimester abortion is not necessary because forgoing the treatment had no meaningful impact.¹⁰⁰

In another study, 57 Rh-negative women who had Rh-positive partners were evaluated after having a spontaneous abortion, also known as a miscarriage. Follow-up examinations of all 57 participants reflected no sensitization, and none of the women experienced any Rh sensitization impacts during the 11 Rh-positive pregnancies that occurred after.¹⁰¹ Based on these studies, the consensus among medical researchers is that “Rh testing or immunoglobulin following induced first-trimester abortion is unnecessary.”¹⁰² In light of the more recent research regarding Rh sensitization during the first trimester, there is also no medical reason for conditioning informed consent to access a first-trimester medication abortion upon the provision of “[i]nformation about Rh incompatibility.”¹⁰³

¹⁰⁰ *Id.* at 1, 3.

¹⁰¹ R.D. Visscher and H.C. Visscher, *Do Rh-Negative Women With An Early Spontaneous Abortion Need Rh Immune Prophylaxis?*, 113 *Am. J. Obstetrics and Gynecology* 158 (1972).

¹⁰² Horvath, et al., *Society of Family Planning*, *supra* note 88.

¹⁰³ N.C. Gen. Stat. § 90-21.83A(b)(2)(g).

Not only are North Carolina's Rh-related requirements out of step with research, but they also impose significant costs. One economic study estimates the annual savings in the U.S. of forgoing universal Rh testing and Rh immunoglobulin administration before 12 weeks' gestation could be as much as \$5.5 million for every 100,000 total pregnancies.¹⁰⁴

In sum, the research does not support any improved health or safety benefit from requiring universal Rh-testing during the first trimester of pregnancy. Likewise, North Carolina's required provision of information about Rh sensitization to persons receiving first-trimester abortions is out of step with the evidence and thus does not enhance informed consent.

¹⁰⁴ Horvath, et al., *Economic Analysis*, *supra* note 93. There is also a national shortage of Rh immunoglobulin and the unnecessary use of Rh immunoglobulin during the first trimester of pregnancy exacerbates this shortage. See FDA, *CBER-Regulated Products: Current Shortages*, <https://www.fda.gov/vaccines-blood-biologics/safety-availability-biologics/cber-regulated-products-current-shortages> (last visited Oct. 10, 2024); ACOG, *Rho(D) Immune Globulin Shortages*, <https://www.acog.org/clinical/clinical-guidance/practice-advisory/articles/2024/03/rhod-immune-globulin-shortages> (last visited Oct. 10, 2024).

C. Certified healthcare providers may prescribe and dispense medication abortion safely and effectively.

North Carolina’s Abortion Laws mandate that only physicians can prescribe abortion medications and that the physician be “in the same room” as the patient when the medication “is administered.”¹⁰⁵ We discuss in Section A above, the research relating to in-person care versus telehealth. In this section we explain how the research shows there is also no reason for limiting the provision of medication abortion to physicians only.

In fact, research shows that a variety of qualified healthcare providers may prescribe and dispense abortion medications safely and effectively. These include nurse practitioners, physician assistants, and certified nurse midwives.¹⁰⁶ Indeed, the World Health Organization

¹⁰⁵ N.C. Gen. Stat. § 90-21.83B(b).

¹⁰⁶ ACOG, *Advanced Practice Clinicians and Abortion Care Provision*, <https://www.acog.org/advocacy/abortion-is-essential/trending-issues/issue-brief-advanced-practice-clinicians-and-abortion-care-provision> (last accessed Oct. 10, 2024); American Public Health Association, *Policy No. 20112: Provision of Abortion Care by Advanced Practice Nurses and Physician Assistants*, <https://www.apha.org/policies-and-advocacy/public-health-policy-statements/policy-database/2014/07/28/16/00/provision-of-abortion-care-by-advanced-practice-nurses-and-physician-assistants> (last accessed Oct. 10, 2024); Upadhyay, et al., JAMA, *supra* note 40 (study consisting of 141 patients who all received treatment by nurse practitioners, 95%

guidelines state that nurses, nurse midwives, and midwives can be qualified to administer medication abortion during the first trimester of pregnancy.¹⁰⁷

Public health studies are consistent with the World Health Organization's recommendations. For example, three randomized controlled trials with a combined 3,200 participants and one cohort study with 596 participants found no statistical differences in effectiveness and safety of medication abortion when administered by a physician versus some other qualified healthcare provider.¹⁰⁸

of whom had complete abortions without intervention and 100% of whom experienced no serious adverse events); Kayla N. Rasmussen, et al., *Expanding Access To Medication Abortion Through Pharmacy Dispensing Of Mifepristone: Primary Care Perspectives From Illinois*, 104 *Contraception* 98, 98-103 (July 2021).

¹⁰⁷ World Health Organization, *Expanding Health Worker Roles for Safe Abortion In the First Trimester of Pregnancy*, https://iris.who.int/bitstream/10665/206191/1/WHO_RHR_16.02_eng.pdf (last accessed Oct. 10, 2024).

¹⁰⁸ Claudia Diaz Olavarrieta, et al., *Nurse Versus Physician-Provision of Early Medical Abortion in Mexico: A Randomized Controlled Non-Inferiority Trial*, 93 *Bull. World Health Organ.* 249, 249–258 (2015); Helena Kopp Kallner, et al., *The Efficacy, Safety and Acceptability of Medical Termination of Pregnancy Provided by Standard Care by Doctors or By Nurse-Midwives: A Randomized Controlled Equivalence Trial*, 122 *BJOG* 510, 510–517 (2015). (efficacy of 99% with certified nurse midwives versus 97.4% with physicians); IK Warriner, et al., *Can Midlevel Health-Care Providers Administer Early Medical Abortion As*

Consistent with these findings, and in reliance on much of this research, the FDA already determined in 2016 that any certified healthcare provider may prescribe and dispense abortion medications safely and effectively.¹⁰⁹ Accordingly, there is no demonstrated improvement to safety or effectiveness to justify North Carolina's requirement that only physicians may administer abortion medications.

CONCLUSION

For the foregoing reasons, the Court should affirm in part and reverse in part the district court's order and hold that all of North Carolina's Abortion Laws as applied to medication abortion are preempted.

Safely And Effectively As Doctors? A Randomised Controlled Equivalence Trial In Nepal. 377 *The Lancet* 1155, 1155–61 (2011); Mahesh Puri, et al., *The Role Of Auxiliary Nurse-Midwives And Community Health Volunteers In Expanding Access To Medical Abortion In Rural Nepal.* 22 *Reprod. Health Matters* 94, 94–103 (2015).

¹⁰⁹ Food and Drug Administration, *2016 Mifeprex Risk Evaluation and Mitigation Strategy (REMS)*,

<https://www.fda.gov/media/164649/download?attachment> (last visited October 10, 2024).

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Respectfully submitted,

KEKER, VAN NEST & PETERS LLP

/s/ Anjali Srinivasan

ANJALI SRINIVASAN

SYDNEE J. ROBINSON

JONHATAN A. ARAGON

Attorneys for *Amici Curiae*

Reproductive Health Researchers

ADDENDUM

LIST OF AMICI CURIAE¹¹⁰

Abigail R.A. Aiken, MD, MPH, PhD

Associate Professor of Public Affairs, University of Texas, Austin

Clayton Alfonso, MD

Physician, Duke University

Amy E. Alspaugh, PhD, MSN

Assistant Professor, University of Tennessee, Knoxville

Amy E. Alterman, PhD, MPH

Postdoctoral Fellow, Georgetown-Howard Center for Medical Humanities and Health Justice

Whitney Arey, PhD

Postdoctoral trainee, Maternal and Child Health, University of North Carolina, Chapel Hill

Jessica Maria Atrio, MD, MSc

Clinical Professor & Physician Scientist, Einstein College of Medicine

Samantha Auerbach, PhD, WHNP

Postdoctoral Fellow, Abortion Care Training Incubator for Outstanding Nurse Scholars (ACTIONS), University of California, San Francisco

Sarah Averbach, MD, MAS

Associate Professor, Obstetrics and Gynecology, University of California, San Diego

Lela Bachrach, MD, MS

Clinical Professor, Department of Pediatrics, University of California, San Francisco

¹¹⁰ Amici Curiae appear in their individual capacities only; institutional affiliations are listed for identification purposes only.

Carrie N. Baker, JD, PhD
Professor, Smith College

Maureen K. Baldwin, MD, MPH
*Associate Professor, Department of Obstetrics & Gynecology,
Oregon Health & Science University*

Jill Barr-Walker, MPH, MS
Clinical Librarian, University of California, San Francisco

Sarah E. Baum, MPH
Senior Research Scientist, Ibis Reproductive Health

Andrea Becker, PhD, MA
*Assistant Professor of Sociology, Hunter College, City University of New
York*

Suzanne O. Bell, PhD, MPH
*Assistant Professor, Bloomberg School of Public Health, Johns Hopkins
University*

Ariana Bennett, DrPH, MPH
Postdoctoral Scholar, University of California, Berkeley

Chiara Bercu, MPA
Associate Project Director, Ibis Reproductive Health

Danielle Bessett, PhD
Professor, Sociology, University of Cincinnati

Antonia Biggs, PhD
*Professor, Department Obstetrics, Gynecology and Reproductive
Sciences, University of California, San Francisco*

Kelly Blanchard, MSc
President, Ibis Reproductive Health

Christy M. Boraas, MD, MPH
Associate Professor, University of Minnesota Medical School

Sonya Borrero, MD, MS
Professor, University of Pittsburgh

Kari P. Braaten, MD, MPH
*Physician, Brigham and Women's Hospital, Department of Obstetrics
and Gynecology*

Caila Brander, MSc
Senior Research Manager, Ibis Reproductive Health

Rebekah Kathleen Broussard, PhD
Assistant Professor, Sociology, University of South Carolina

Benjamin Patterson Brown, MD, MS
*Mimi Pichey Assistant Professor of Obstetrics and Gynecology; Chief,
Section of Complex Family Planning, The Warren Alpert Medical
School, Brown University*

Katherine Saxton Brown, MD, MAS
Assistant Professor, University of California, San Francisco

Mara Buchbinder, PhD
*Professor and Vice Chair, Social Medicine, University of North Carolina,
Chapel Hill*

Alice Cartwright, PhD, MPH
Senior Research Scientist, Guttmacher Institute

Philicia W. Castillo, MPH
*Research Scientist, Institute of Implementation Science in Population
Health, City University of New York*

Aaron Caughey, MD, MPP, MPH, PhD
*Professor and Chair, Department of Obstetrics & Gynecology, Oregon
Health & Science University*

Wendy Chavkin, MD, MPH
*Professor Emerita of Public Health, Obstetrics & Gynecology, Mailman
School of Public Health and College of Physicians and Surgeons,
Columbia University*

Beatrice Chen, MD, MPH

Associate Professor, University of Pittsburgh

Damian Clarke, DPhil

Associate Professor of Economics, University of Chile and University of Exeter

Kelly Cleland, MPA, MPH

Executive Director, American Society for Emergency Contraception

Allison Cowett, MD, MPH

Medical Director, Family Planning Associates Medical Group, Chicago; Obstetrics and Gynecology, Feinberg School of Medicine Northwestern University

Mitchell D. Creinin, MD

Distinguished Professor and Director, Complex Family Planning Fellowship, Obstetrics and Gynecology, University of California, Davis

Kelly R. Culwell, MD, MPH

Clinical Assistant Professor, University of California, San Diego

Cynthia R. Daniels, PhD

Professor Emerita, Political Science Department, Rutgers University

Blair G. Darney, PhD, MPH

Associate Professor, Department of Obstetrics & Gynecology, Oregon Health & Science University

Philip D. Darney, MD, MSc

Distinguished Research Professor, Obstetrics Gynecology and Reproductive Sciences and Health Policy, University of California, San Francisco

Fiona de Londras, BCL, LL.M, PhD

Barber Professor of Jurisprudence, Birmingham Law School, University of Birmingham (UK)

Amanda Dennis, DrPH

Executive Director, Society of Family Planning

Sheila Desai, DrPH, MPH

Research Director, Coalition to Expand Contraceptive Access

Samuel L. Dickman, MD

Chief Medical Officer, Planned Parenthood of Montana

Alesha E. Doan, PhD

Professor; Associate Dean, University of Kansas

Meghan Kathleen Eagen-Torkko, PhD, MN, BSN, BA

Associate Professor & Director of Nursing, College of Health & Human Services, Eastern Michigan University

Nicole Economou, MD, MPH

Assistant Clinical Professor, University of California, Davis

Alison Edelman, MD, MPH

Professor of Obstetrics & Gynecology, Oregon Health and Science University

David L. Eisenberg, MD, MPH

Professor & Chief of Division of Complex Family Planning, Department of Obstetrics & Gynecology, Washington University in St. Louis School of Medicine

Gretchen E. Ely, PhD, MSW

Professor & PhD Program Director, University of Tennessee, Knoxville

Anna E. Fiastro, PhD, MPH, MEM

Research Scientist, Department of Family Medicine, University of Washington

Jason Fletcher, PhD

Professor, La Follette School of Public Affairs, University of Wisconsin

Catherine S. Forest, MD, MPH, FAAFP

Clinical Associate Professor of Family Medicine, University of California, San Francisco, Natividad Family Medicine

Angel M. Foster, DPhil, MD, AM

Professor, University of Ottawa

Maria F. Gallo, PhD

Associate Dean of Research, Professor of Epidemiology, College of Public Health, Ohio State University

Aileen Gariepy, MD, MPH, MHS

Director of Complex Family Planning, Department of Obstetrics and Gynecology, Weill Cornell Medicine

Kristina Gemzell Danielsson, MD, PhD

Professor, Department of Women's and Children's Health, Karolinska Institutet

Caitlin Elisabeth Gerdts, PhD, MHS

Vice President for Research, Ibis Reproductive Health

Jessica D. Gipson, MPH, PhD

Professor and Bixby Chair on Population and Reproductive Health, Fielding School of Public Health, University of California, Los Angeles

Natalie Gladstein, MD, MSc

Physician

Samantha Glass, MD

Assistant Professor, Family and Community Medicine, Institute for Family Health, Mount Sinai School of Medicine

Marji Gold, MD

Professor of Family and Social Medicine, Albert Einstein College of Medicine

Bethany N. Golden, MSN, PhD

Co-Director of the Reproductive Health Services Corps, TEACH

Anu Manchikanti Gomez, PhD, MSc

Associate Professor, University of California, Berkeley

Daniel Grossman, MD

Professor and Director, Advancing New Standards in Reproductive Health, University of California, San Francisco

Sofia Gruskin, JD, MIA

Distinguished Professor and Director, Institute on Inequalities in Global Health, University of Southern California

Kelli S. Hall, PhD, MS

Associate Dean of Research; Thomas Keller Professor in Diversity, Celia Scott Weatherhead School of Public Health & Tropical Medicine, Tulane University

Cynthia Harper, PhD

Professor, Department of Obstetrics, Gynecology and Reproductive Sciences, University of California, San Francisco

Marie Harvey, MPH, DrPH

Associate Dean for Research and Professor of Public Health, Oregon State University

Lee Hasselbacher, JD

Research Assistant Professor, University of Chicago

Jen Hastings, MD

Assistant Clinical Professor, Department of Family and Community Medicine, University of California, San Francisco; Aria Medical Group

Jenny A. Higgins, PhD, MPH

Professor, Obstetrics and Gynecology, University of Wisconsin School of Medicine and Public Health

Sarah Horvath, MD, MSHP

Associate Professor, Obstetrics and Gynecology, Pennsylvania State University

Melody Y. Hou, MD, MPH

Professor, Department of Obstetrics and Gynecology, University of California, Davis

Sara L. Imershein, MD, MPH

Clinical Professor, George Washington University School of Medicine

Luu Ireland, MD, MPH

Assistant Professor, University of Massachusetts Memorial Health

Laura Jacobson, PhD, MPH

Research Consultant & Adjunct Assistant Professor, OHSU-PSU School of Public Health

Elizabeth Janiak, ScD, MS, MA

Assistant Professor, Brigham and Women's Hospital, Harvard Medical School, Harvard TH Chan School of Public Health

Ruvani Jayaweera, PhD, MPH

Research Scientist, Ibis Reproductive Health

Carole E. Joffe, PhD

Professor, Obstetrics, Gynecology and Reproductive Sciences, University of California, San Francisco

Nicole E. Johns, MPH

Research Data Analyst, Center on Gender Equity and Health, University of California, San Diego

Dana M. Johnson, MPAff, PhD

Health Disparities Research Postdoctoral Fellow, University of Wisconsin-Madison School of Medicine and Public Health

Heidi E. Jones, PhD, MPH

Professor, Department of Epidemiology and Biostatistics, City University of New York School of Public Health

Rachel K. Jones, PhD

Principal Research Scientist, Guttmacher Institute

Bliss Kaneshiro, MD, MPH

Professor and Chief of Obstetrics & Gynecology, University of Hawaii

Nathalie Kapp, MD, MPH

Chief Medical Advisor, International Planned Parenthood Federation

Megan L. Kavanaugh, DrPH, MPH

Principal Research Scientist, Guttmacher Institute

Courtney A. Kerestes, MD, MSCTR

Assistant Professor, Ohio State University

Katrina Kimport, PhD

*Professor, Advancing New Standards in Reproductive Health,
University of California, San Francisco*

Jennifer Ko, BS, MLIS

*Project Director, Advancing New Standards in Reproductive Health,
University of California, San Francisco*

Leah Koenig, MSPH

*Research Analyst, Advancing New Standards in Reproductive Health,
University of California, San Francisco*

Kathryn Kost, PhD

Director of Domestic Research, Guttmacher Institute

Kathryn J. LaRoche, PhD, MSc

Assistant Professor, Department of Public Health, Purdue University

Klaira Lerma, MPH

*Associate Director, Reproductive Equity Action Lab, University of
Wisconsin-Madison*

Kelsey Loeliger, MD, PhD

Complex Family Planning Fellow, University of California, San Diego

Patricia A. Lohr, MD, MPH

*Director of Research and Innovation, British Pregnancy Advisory
Service*

Isaac Maddow-Zimet, MS

Data Scientist, Guttmacher Institute

Meredith Manze, MPH, PhD

Associate Professor, City University of New York School of Public Health

Michelle L. McGowan, PhD

Professor of Biomedical Ethics, Mayo Clinic

Monica R. McLemore, PhD, MPH, RN, FADNL

*Professor, Child, Family and Population Health Nursing, University of
Washington*

Hayley Miller, MD
Physician

Sepideh Modrek, PhD
*Associate Professor, Health Equity Institute, San Francisco State
University*

Mariana Montes, MD, MPH
Assistant Professor of Anesthesia & Critical Care, University of Chicago

Jessica E. Morse, MD, MPH
Associate Professor, University of North Carolina, Chapel Hill

Heidi Moseson, PhD, MPH
Senior Research Scientist, Ibis Reproductive Health

Elizabeth A. Mosley, PhD, MPH
*Assistant Professor, University of Pittsburgh, Division of General
Internal Medicine*

Isabel Muñoz, MPH
*Research Manager, Advancing New Standards in Reproductive Health,
University of California, San Francisco*

Sarah Munro, PhD
Assistant Professor, University of Washington

Subasri Narasimhan, PhD, MPH
Assistant Professor, Emory University

Monika Nayak, BA
UCLA Health Policy and Management

Brian T. Nguyen, MD, MSc
*Associate Professor, Obstetrics and Gynecology, University of Southern
California*

Alison H. Norris, MD, PhD
Professor, College of Public Health, Ohio State University

Jenny O'Donnell, DSc, MS

Senior Director of Research and Evaluation, Society of Family Planning

Michael S. Policar, MD, MPH

Professor Emeritus of Obstetrics, Gynecology, and Reproductive Sciences, University of California, San Francisco

Sarah Ward Prager, MD, MAS

Professor, Obstetrics & Gynecology, Complex Family Planning, University of Washington

Kimala Price, PhD

Professor and Chair, Department of Women's Studies, San Diego State University

Tina Raine-Bennett, MD, MPH

Staff Physician, Obstetrics, Gynecology, and Reproductive Sciences, University of California, San Francisco

Lauren Ralph, PhD, MPH

Associate Professor, Obstetrics, Gynecology and Reproductive Sciences, University of California, San Francisco

Elizabeth Gray Raymond, MD, MPH

Clinical Assistant Professor, Department of Obstetrics and Gynecology, University of Washington

Sara K. Redd, PhD, MSPH

Assistant Professor, Emory University

Whitney Rice, DrPH, MPH

Rollins Assistant Professor and Director, Emory University

Corinne H. Rocca, PhD, MPH

Professor In Residence, Obstetrics, Gynecology and Reproductive Sciences, University of California, San Francisco

Roger W. Rochat, MD

Emeritus Professor, Department of Global Health, Emory University

Susan E. Rubin, MD, MPH
Family Physician, The Institute for Family Health

Samantha P. Ruggiero, MA
Senior Project Manager, Ibis Reproductive Health

Robyn Schickler, MD, MSc
Chief Medical Officer, Planned Parenthood Southwest and Central Florida

Laura Schummers, ScD
Assistant Professor, University of British Columbia

Hilary M. Schwandt, PhD, MHS
Professor, Fairhaven College

Eleanor Bimla Schwarz, MD, MS
Professor and Division Chief, Internal Medicine, University of California, San Francisco

Leigh G. Senderowicz, ScD, MPH
Assistant Professor, Departments of Obstetrics & Gynecology and Gender & Women's Studies, University of Wisconsin-Madison

Jane W. Seymour, PhD, MPH
Research Scientist, Collaborative for Reproductive Equity, University of Wisconsin School of Medicine and Public Health

Tara Shochet, PhD, MPH
Director of Programs and Grants, Family Planning Council of Iowa

Julia R. Steinberg, PhD
Associate Professor, Department of Family Science, School of Public Health, University of Maryland, College Park

Amanda Jean Stevenson, PhD
Assistant Professor, University of Colorado, Boulder

Julia Strasser, DrPH, MPH

Director, Jacobs Institute of Women's Health & Assistant Research Professor, Health Policy & Management, Milken Institute School of Public Health, George Washington University

Debra B. Stulberg, MD, MA

Professor and Chair of Family Medicine, University of Chicago

Daniel Felipe Martin Suarez-Baquero, PhD, MSN, BSN

Assistant Professor, School of Nursing, University of Washington

Elizabeth A. Sully, PhD, MA

Principal Research Scientist, Guttmacher Institute

Laura E. T. Swan, PhD, LCSW

Senior Research Scientist, Reproductive Equity Action Lab, University of Wisconsin School of Medicine and Public Health

Jonas Swartz, MD, MPH

Assistant Professor, Obstetrics & Gynecology, Duke University

Jennifer Tang, MD, MSCR

Professor, Department of Obstetrics & Gynecology, University of North Carolina, Chapel Hill

Julia Tasset, MD, MPH

Assistant Professor, Department of Obstetrics and Gynecology, Oregon Health & Science University

Terri-Ann M. Thompson, PhD

Senior Research Scientist, Ibis Reproductive Health

Mary S. Tschann, PhD, MPH

Complex Family Planning Scientist/Adjunct Research Faculty, Department of Obstetrics, Gynecology and Women's Health, University of Hawaii

Janet Molzan Turan, PhD

Professor, University of Alabama, Birmingham

David Turok, MD, MPH

Professor, Department of Obstetrics & Gynecology, University of Utah

Ushma D. Upadhyay, PhD, MPH

Professor, Department of Obstetrics, Gynecology, and Reproductive Sciences, University of California, San Francisco

Joanna Venator, PhD

Assistant Professor, Boston College

Lin-Fan Wang, MD, MPH

Family Physician, Family Medicine

Carol S. Weisman, PhD

Distinguished Professor Emerita of Public Health Sciences, College of Medicine, Pennsylvania State University

Elisa S. Wells, MPH

Co-Director, Plan C

Carolyn L. Westhoff, MD

Professor, Columbia University

Libby Wetterer, MD

Assistant Professor, University of Pennsylvania

Kari White, PhD, MPH

Executive and Scientific Director, Resound Research for Reproductive Health

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Dated: October 17, 2024

Respectfully submitted,

KEKER, VAN NEST & PETERS LLP

/s/ Anjali Srinivasan

ANJALI SRINIVASAN

SYDNEE J. ROBINSON

JONHATAN A. ARAGON

Attorneys for *Amici Curiae*

Reproductive Health Researchers