

## **Attitudes of Medical Students on the Future of Medical Education and Clinical Practice after the Dobbs v. Jackson Women’s Health Organization decision.**

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### **REFERENCES**

1. Dobbs, State Health Officer of the Mississippi Department of Health, et al. v. Jackson Women’s Health Organization et al. Updated June 24, 2022. Accessed April 28, 2023. [https://www.supremecourt.gov/opinions/21pdf/19-1392\\_6j37.pdf](https://www.supremecourt.gov/opinions/21pdf/19-1392_6j37.pdf).
2. Nelson J. SB No 8 2021-2022 87<sup>th</sup> Legislature, 87(3). Texas Legislature Online. Published 2021. Accessed January 4, 2023. <https://capitol.texas.gov/BillLookup/History.aspx?LegSess=873&Bill=SB8>
3. Capriglione G. HB 1280 2021 87<sup>th</sup> Legislature, 87(R). Texas Legislature Online. Updated 2021. Accessed January 4, 2023. <https://capitol.texas.gov/billlookup/History.aspx?LegSess=87R&Bill=HB1280>.
4. The New York Times. Tracking the States Where Abortion is now Banned. The New York Times. Updated April 14, 2023. Accessed April 22, 2023. <https://www.nytimes.com/interactive/2022/us/abortion-laws-roe-v-wade.html>
5. Center for Reproductive Rights (CRC). After Roe Fell: Abortion Laws by State. Reproductive Rights. Updated 2022. Accessed January 4, 2023. <https://reproductiverights.org/maps/abortion-laws-by-state/>.
6. Committee on Health Care for Underserved Women. Abortion training and education. Updated November 2014. Accessed January 12, 2023. <https://www.acog.org/clinical/clinical-guidance/committee-opinion/articles/2014/11/abortion-training-and-education>.
7. Aksel S, Fein L, Ketterer E, Young E, Backus L. Unintended consequences: abortion training in the years after Roe v Wade. *Am J Public Health*. 2013;103(3):404-407. doi:10.2105/AJPH.2012.301152
8. Espey E, Ogburn T, Chavez A, Qualls C, Leyba M. Abortion education in medical schools: a national survey. *Am J Obstet Gynecol*. 2005;192(2):640-643. doi:10.1016/j.ajog.2004.09.013
9. Tocce K, Sheeder J, Vontver L. Failure to achieve the association of professors in gynecology and obstetrics objectives for abortion in third-year medical student curriculum. *J Reprod Med*. 2011;56(11-12):474-478.
10. ACOG Committee opinion no. 612: Abortion training and education. *Obstet Gynecol*. 2014;124(5):1055-1059. doi:10.1097/01.AOG.0000456327.96480.18
11. Guiahi M, Maguire K, Ripp ZT, Goodman RW, Kenton K. Perceptions of family planning and abortion education at a faith-based medical school. *Contraception*. 2011;84(5):520-524. doi:10.1016/j.contraception.2011.03.003

12. Sagar K, Rego E, Malhotra R, Lacue A, Brandi KM. Abortion providers in the United States: expanding beyond obstetrics and gynecology. *AJOG Glob Rep.* 2023;3(2):100186. Published 2023 Feb 25. doi:10.1016/j.xagr.2023.100186
13. Farmer LE, Clare CA, Liberatos P, Kim HY, Shi Q. Exploring barriers to abortion access: Medical students' intentions, attitudes and exposure to abortion. *Sex Reprod Healthc.* 2022;34:100790. doi:10.1016/j.srhc.2022.100790
14. Reddy S, Saxon M, Verdecias N, Biviji R, Don R, Kizer E, Mishra S. Parallel crisis by state lines: the unintended consequences of Dobbs in health care. *Clin Med.* 2023; 5(1): 1051. Accessed April 28, 2023 <https://pubmed.ncbi.nlm.nih.gov/22631863/>
15. Rivlin K, Kissling A, Sackeim MG. "They were there because they were pregnant. Which is a really apolitical thing"- Medical student discussions of politics in abortion care in the United States. *Contraception.* 2023;120:109922. doi:10.1016/j.contraception.2022.109922
16. Tanner, L. Medical students seeking abortion training face nationwide restrictions. Updated April 19, 2022. Accessed January 12, 2023. <https://www.pbs.org/newshour/nation/medical-students-seeking-abortion-training-face-nationwide-restrictions>.
17. Roberts LW. Considering the effects of the Dobbs decision on clinical training and practice and on the lives of medical professionals. *Acad Med.* 2023;98(4):425-428. doi:10.1097/ACM.0000000000005155
18. Harris PA, Taylor R, Thielke R, Payne J., Gonzalez N, Conde JG. Research electronic data capture (REDCap)--a metadata-driven methodology and workflow process for providing translational research informatics support. *J Biomed Inform.* 2009;42(2):377-381. doi:10.1016/j.jbi.2008.08.010
19. Sloan L. A. Abortion attitude scale. *Health Educ. J.* 1983;14(3):41-42. doi: 10.1080/00970050.1983.10614403.
20. Saadeh R, Alfaqih M, Odat A, Allouh MZ. Attitudes of Medical and Health Sciences Students towards Abortion in Jordan. *Biomed Res Int.* 2021;2021:6624181. Published 2021 Apr 26. doi:10.1155/2021/6624181
21. IBM Corporation 2021. IBM SPSS Statistics for Windows. Accessed March 24, 2023. <https://www.ibm.com/products/spss-statistics>.
22. de Almeida ST, de Lima Resende T, Stobäus CD. Validity, reliability and convergent analysis of Brazilian Version of Selection, Optimization and Compensation Questionnaire (QSOC). *Creative Education.* 2016;07(15):2074-2087. doi: <https://doi.org/10.4236/ce.2016.715207>
23. Association of American Medical Colleges (AAMC). Applicants, Matriculants, Enrollment, and Graduates to U.S. Medical Schools, 2013-2014 through 2022-2023. 2022 FACTS: Enrollment, Graduates, and MD-PhD Data. Updated 2022. Accessed January 4th, 2023. <https://www.aamc.org/data-reports/students-residents/interactive-data/2022-facts-enrollment-graduates-and-md-phd-data>.
24. American Association of Colleges of Osteopathic Medicine (AACOM). AACOM reports on student enrollment. Student Enrollment. Published March 18, 2022. Accessed January 4, 2023. <https://archive.aacom.org/reports-programs-initiatives/aacom-reports/student-enrollment>

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### ***Modified Sloan Abortion Attitudes Scale***

*Likert scale (1=strongly agree, 2=agree, 3=slightly agree, 4=slightly disagree, 5=disagree, and 6=strongly disagree)*

1. The Supreme Court's decision to overturn Roe v. Wade in the Dobbs v. Jackson Women's Health Organization case is correct.
2. Abortion is an acceptable way to solve an unwanted pregnancy.
3. A woman should feel obligated to carry a pregnancy to term if she has conceived.
4. Abortion is wrong no matter what the circumstances are.
5. A fetus is not a "person" until it can live outside its' mother's body.
6. The decision to have an abortion should be the pregnant woman's.
7. Every conceived child has the right to be born.
8. A pregnant woman not wanting to have a child should be encouraged to have an abortion.
9. Abortion should be considered killing a person.
10. People should not look down on those who choose to have abortions.
11. Abortion should be an available alternative for pregnant teenagers.
12. People should not have the power over the life or death of an embryo or fetus.
13. Unwanted children should not be brought into this world.
14. A fetus should be considered a "person" at the moment of conception.
15. Abortion is permissible if pregnancy is a threat to the pregnant woman's life.
16. Abortion should occur if the fetus has congenital anomalies or genetic diseases.
17. Abortion should be available to women who have conceived from rape or incest.
18. Abortion should be legal but only up to a certain week or trimester.

### **Single Item About Acceptability of Abortion Based on Week of Pregnancy**

19. I feel It is acceptable for a woman to receive an abortion up to the following week of pregnancy, where "0" means not acceptable at all. \_\_\_\_\_ [0-40]

***Medical Education Abortion Attitudes (MEAA) Scale***

*Likert scale (1=strongly agree, 2=agree, 3=slightly agree, 4=slightly disagree, 5=disagree, and 6=strongly disagree)*

20. I believe sharing my beliefs on abortion may prevent me from getting a job as a physician in the future.
21. I believe medical education should include learning how to perform procedures such as terminating a pregnancy.
22. The criminalization of abortion has made me reconsider entering a field that focuses on women's health (provided you had originally wanted to enter the women's health field).
23. I do not wish to practice medicine in any U.S. state that has abortion bans that negatively affect physicians.
24. The criminalization of abortion will hinder my ability to care for my future patients.
25. The criminalization of abortion poses a threat to the field of reproductive endocrinology (e.g., fertility medicine, in vitro fertilization [IVF]).
26. I believe there should be protections in place for physicians who perform abortions in states where abortions are illegal.

### *Sample Characteristics*

27. What is your age? \_\_\_\_\_

28. What is your race?

- American Indian or Alaskan Native Asian
- Black or African American
- Native Hawaiian or other Pacific Islander
- White / Caucasian
- Prefer not to answer

29. What is your gender?

- Female
- Man
- Prefer not to answer

30. How do you identify?

- Woman
- Man
- Non-Binary
- Prefer to self-describe, below

30a. Please Specify \_\_\_\_\_

31. What year of medical school are you currently in?

- First
- Second
- Third
- Fourth

32. Regarding religion/spiritual belief or practice, how do you identify?

- Christian - Denominational (Catholic, Protestant, Lutheran, Baptist, Orthodox, etc.)
- Christian - Non-Denominational
- Jewish
- Hindi
- Muslim
- Buddhist
- Taoist
- Sikh
- Latter-Day Saint
- None
- Prefer to self-describe

33. How important is religion in your life?

- Very Important

- Somewhat Important
- Not too Important
- Not Important at All

34. In the past I have had an abortion.

- Yes
- No
- Not Applicable to Me
- Prefer Not to Answer

35. Someone close to me has had an abortion(s)

- Yes
- No
- Prefer Not to Answer