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INTEREST OF AMICI CURIAE

Amici curiae are the American Academy of Pediatrics, the Academic Pediatric Association, the American Academy of Child & Adolescent Psychiatry, the Association of American Medical Colleges, the American Academy of Family Physicians, the American Academy of Nursing, the American Association of Physicians for Human Rights, Inc. d/b/a GLMA: Health Professionals Advancing LGBTQ+ Equality, the American College of Obstetricians and Gynecologists, the American College of Osteopathic Pediatricians, the American College of Physicians, the American Medical Association, the American Pediatric Society, American Psychiatric Association, Association of Medical School Pediatric Department Chairs, Inc., the Endocrine Society, the Kentucky Chapter of the American Academy of Pediatrics, the National Association of Pediatric Nurse Practitioners, the Pediatric Endocrine Society, the Societies for Pediatric Urology, the Society for Adolescent Health and Medicine, the Society for Pediatric Research, the Society of Pediatric Nurses, and the World Professional Association for Transgender Health (collectively, "amici").1

Amici are professional medical and mental health organizations seeking to ensure that all adolescents, including those with gender dysphoria, receive the

¹ In accordance with Rule 37.2, all counsel of record received timely notification of *amici*'s intent to file this brief. Pursuant to Rule 37.6, *amici* affirm that no counsel for a party authored this brief in whole or in part and that no person other than *amici*, their staff, or their counsel made any monetary contributions intended to fund the preparation or submission of this brief.

optimal medical and mental health care they need and deserve. *Amici* represent thousands of healthcare providers who have specific expertise with the issues raised in this brief. The Court should consider *amici*'s brief because it provides important expertise and

aspects of the patient's life.⁴ If not treated, or treated improperly, gender dysphoria can result in debilitating anxiety, depression, and self-harm, and is associated with higher rates of suicide. As such, the effective treatment of gender dysphoria saves lives.

The widely accepted recommendation of the medical community, including that of the respected professional organizations participating here as *amici*, is that the well-accepted protocol for treating gender dysphoria is "gender-affirming care." Genderaffirming care is care that supports an individual with gender dysphoria as they explore their gender identity—in contrast with efforts to change the individual's gender identity to match their sex

identity. Empirical evidence indicates that genderaffirming care, including gender-affirming medical care provided to carefully evaluated patients who meet diagnostic criteria, can alleviate clinically significant distress and lead to significant improvements in the mental health and overall wellbeing of adolescents with gender dysphoria.⁷

The Healthcare Ban disregards this medical evidence by precluding healthcare providers from providing adolescent patients with treatments for gender dysphoria in accordance with the well-accepted protocol. Accordingly, *amici* urge this Court to grant the petition.

ARGUMENT

This brief first provides background on gender identity and gender dysphoria. It then describes the professionally accepted medical guidelines for treating gender dysphoria as they apply to adolescents, the scientifically rigorous process by which these guidelines were developed, and the evidence that supports the effectiveness of this care for adolescents with gender dysphoria. Finally, the brief explains how the Healthcare Ban would

⁷ See

irreparably harm adolescents with gender dysphoria

from gender dysphoria, a serious medical condition in which the patient experiences significant distress that can lead to "impairment in peer and/or family relationships, school performance, or other aspects of their life." Gender dysphoria is a formal diagnosis under the American Psychiatric Association's Diagnostic and Statistical Manual (DSM-5-TR).15

Adolescents with gender dysphoria are not expected to identify later as their sex assigned at birth. Instead, "[l]ongitudinal studies have indicated that the emergence or worsening of gender dysphoria with pubertal onset is associated with a very high likelihood of being a transgender adult." ¹⁷

If untreated or inadequately treated, gender dysphoria can cause depression, anxiety, self-harm,

Ass'n, *APA Resolution on Gender Identity Change Efforts* at 4 (Feb. 2021), https://perma.cc/M22K-PBUZ.

¹⁴ AAP Policy Statement, *supra* note 4, at 3.

¹⁵ See Am. Psychiatric Ass'n, Diagnostic and Statistical Manual of Mental Disorders: DSM-5 – TR

and suicidality.¹⁸ Indeed, over 60% of transgender adolescents and young adults reported having engaged in self-harm during the preceding 12 months, and over 75% reported symptoms of generalized anxiety disorder in the preceding two weeks.¹⁹ Even more troubling, more than 50% of this population reported having seriously considered attempting suicide,²⁰ and more than one in three transgender adolescents reported having attempted suicide in the preceding 12 months.²¹

II. The Widely Accepted Guidelines for Treating Adolescents with Gender Dysphoria Provide for Gender-Affirming Medical Care When Indicated

The widely accepted view of the professional medical community is that gender-affirming care is the appropriate treatment for gender dysphoria and that, for some adolescents, gender-affirming medical

¹⁸ See Brayden N. Kameg & Donna G. Nativio, Gender c-.000x2001y

care is necessary.²² Gender-affirming care greatly reduces the negative physical and mental health consequences that result when gender dysphoria is untreated.²³

A. The Gender Dysphoria Treatment Guidelines Include Thorough Mental Health Assessments and, for Some Adolescents, Gender-Affirming Medical Care.

The treatment protocols for gender dysphoria are laid out in established, evidence-based clinical guidelines: (i) the Endocrine Society Clinical Practice Guideline for Endocrine Treatment of Gender-Dysphoric/Gender-Incongruent Persons, and (ii) the WPATH Standards of Care for the Health of Transgender and Gender Diverse People (together, the "Guidelines").²⁴ The Guidelines have been developed by expert clinicians and researchers who have worked with patients with gender dysphoria for many years.

²² See, e.g., Endocrine Soc'y, Transgender Health: An Endocrine Society Position Statement (2020), https://perma.cc/7L4P-VWME.

²³ See id.

²⁴ Wylie C. Hembree et al., *Endocrine Treatment of Gender-Dysphoric/Gender-Incongruent Persons: An Endocrine Society Clinical Practice Guideline*, 102(11) J. Clin. Endocrinol. Metab. 3869 (Nov. 2017) [hereinafter, "Endocrine Soc'y Guidelines"], https://perma.cc/34KY-2LDF; Eli Coleman et al., *Standards of Care for the Health of Transgender and Gender Diverse People*, 23 Int'l J. Transgender Health S1 (8th ed. 2022) [hereinafter, "WPATH Guidelines"], https://perma.cc/7SU3-RPK9.

The Guidelines provide that all youth with gender dysphoria should be evaluated, diagnosed, and treated by a qualified health care professional ("HCP"). Further, the Guidelines provide that each patient who receives gender-affirming care should receive only evidence-based, medically necessary, and appropriate care that is tailored to the patient's individual needs.

 The Guidelines Do Not Recommend Gender-Affirming Medical Care for Prepubertal Children.

For prepubertal children with gender dysphoria, the Guidelines provide for mental health care and support for the child and their family, such as through psychotherapy and social transitioning.²⁵ The Guidelines do *not* recommend that prepubertal children with gender dysphoria receive genderaffirming medical care or surgeries.²⁶

 A Robust Diagnostic Assessment Is Required Before Gender-Affirming Medical Care Is Provided.

In contrast to prepubertal children, the Guidelines do contemplate the possibility that transgender adolescents with gender dysphoria could receive gender-affirming medical care, provided certain criteria are met. According to the Guidelines, gender-affirming medical care should be provided

²⁵ See WPATH Guidelines, *supra* note 24, at S73–74; Endocrine Soc'y Guidelines, *supra* note 24, at 3877–78.

²⁶ See WPATH Guidelines, supra note 24, at S64, S67; Endocrine Soc'y Guidelines, supra note 24, at 3871.

only after a thorough evaluation by a HCP who: (1) is licensed by their statutory body and holds a master's degree or equivalent in a relevant clinical field; (2) has expertise and received theoretical and evidence-based training in child, adolescent, and family mental health; (3) has expertise and received training in gender identity development, gender diversity in children and adolescents, can assess capacity to consent, and possesses knowledge about gender diversity across the life span; (4) has expertise and received training in autism spectrum disorders and neurodevelopmental presentations, collaborates with a developmental disability expert when working with neurodivergent patients; and (5) continues engagement in professional development in 3. In Certain Circumstances, the Guidelines Provide for the Use of Gender-Affirming Medical Care to

from puberty blockers are exceedingly rare when provided under clinical supervision. $^{40}\,$

Later in adolescence—and if the criteria below are met—hormone therapy may be used to initiate

Although some of the changes caused by hormone therapy become irreversible after those secondary sex characteristics are fully developed, others are partially reversible if the patient discontinues use of the hormones.⁴⁵

The Guidelines contemplate that the prescription of puberty blockers and/or hormone therapy be coupled with education on the safe use of such medications and close monitoring to mitigate any potential risks.⁴⁶ Decisions regarding the appropriate treatment for each patient with gender dysphoria are made in consultation with the patient, their parents or guardians, and the medical and mental health care team. There is "no one-size-fits-all approach to this kind of care."⁴⁷

drafting, comment, and review process.48 The imposes Endocrine Society strict evidentiary requirements based on the internationally recognized of Recommendations Assessment, Grading Development and Evaluation (GRADE) system.⁴⁹ That GRADE assessment is then reviewed, rereviewed. and reviewed again by multiple, independent groups of professionals.⁵⁰ Reviewers are subject to strict conflict of interest rules, and there is ample opportunity for feedback and debate through the years-long review process.⁵¹ Further, the Endocrine Society continually reviews its own guidelines and recently determined that the 2017 transgender care guidelines continue to reflect the best, most up-to-date available evidence.

First published in 1979, the WPATH Standards of Care are currently in their 8th Edition. The current Standards of Care are the result of a robust drafting, comment, and review process that collectively took five years.⁵² The draft guidelines went through rigorous review and were publicly available for

⁴⁸ See, e.g., Endocrine Soc'y Guidelines, *supra* note 24, at 3872–73 (high-level overview of methodology).

⁴⁹ See Gordon Guyatt et al., GRADE Guidelines: 1. Introduction–GRADE Evidence Profiles and Summary of Findings Tables, 64 J. Clin. Epidemiol. 383 (2011), https://perma.cc/66FA-6MT6; Gordon H. Guyatt et al., GRADE: An Emerging Consensus on Rating Quality of Evidence and Strength of Recommendations, 336 BMJ 924 (2008), https://perma.cc/4J7F-3Z62.

⁵⁰ Endocrine Soc'y, *Guideline Methodology*, https://perma.cc/9NK4-HNNX.

⁵¹ See id.

⁵² See WPATH Guidelines, supra note 24, at S247–51.

discussion and debate, receiving a total of 2,688 comments.⁵³ 119 authors were ultimately involved in the final draft, including feedback from experts in the field as well as from transgender individuals and their families.⁵⁴

C. Scientific Evidence Indicates the Effectiveness of Treating Gender Dysphoria According to the Guidelines.

Multiple studies indicate that adolescents with gender dysphoria who receive gender-affirming medical care experience improvements in their overall well-being.⁵⁵ A number of studies have been published that investigated the use of puberty blockers on adolescents with gender dysphoria⁵⁶

⁵³ See id.

⁵⁴ See id.

⁵⁵ See Martin, supra note 7, at 580.

⁵⁶ See, e.g., Christal Achille et al., Longitudinal Impact of Gender-Affirming Endocrine Intervention on the Mental Health and Well-Being of Transgender Youths: Preliminary Results, 8 Int'l J. Pediatric Endocrinol. 1–5 (2020), https://perma.cc/K5SR-EE3G; Polly Carmichael et al., Short-Term Outcomes of Pubertal Suppression in a Select Cohort of 12 to 15 Year Old Young People with Persistent Gender Dysphoria in the UK, 16(2) PLoS One e0243894 (2021), https://doi.org/10.1371/journal.pone.0243894; Rosalia Costa et al., Psychological Support, Puberty Suppression, and Psychosocial Functioning in Adolescents with Gender Dysphoria, 12(11) J. Sexual Med. 2206–14 (2015), https://pubmed.ncbi.nlm.nih.g

and/or the use of hormone therapy to treat adolescents with gender dysphoria.⁵⁷ These studies find positive

134(4) Reassignment, **Pediatrics** 696-704 (2014),https://pubmed.ncbi.nlm.nih.gov/25201798; Laura E. Kuper et al., Body Dissatisfaction and Mental Health Outcomes of Youth on Gender-Affirming Hormone Therapy, 145(4) Pediatrics e20193006 (2020), https://perma.cc/2HAT-GGFV; Jack L. Turban et al., Pubertal Suppression for Transgender Youth and Risk of Suicidal Ideation, 145(2) Pediatrics e20191725 (2020), https://perma.cc/B2UZ-YR3Q; Anna I.R. van der Miesen, Psychological Functioning in Transgender Adolescents Before and After Gender-Affirmative Care Compared with Cisgender General Population Peers, 66(6) J. Adolescent Health 699-704 (2020), https://pubmed.ncbi.nlm

mental health outcomes for those adolescents who received puberty blockers or hormone therapy, including statistically significant reductions in anxiety, depression, and suicidal ideation.⁵⁸

For example, a 2020 study analyzed survey data from 89 transgender adults who had access to puberty blockers while adolescents and from more than 3,400 transgender adults who did not.⁵⁹ The study found that those who received puberty blocking treatment had lower odds of lifetime suicidal ideation than those who wanted puberty blocking treatment but did not receive it, even after adjusting for demographic level variables and of family support.60 Approximately *nine in ten* transgender adults who wanted puberty blocking treatment but did not receive it reported lifetime suicidal ideation.⁶¹ Additionally, a longitudinal study of nearly 50 transgender adolescents found that suicidality was decreased by a statistically-significant degree after receiving gender-affirming hormone treatment.62 A

Transgender Adults, 17(1) J. PLoS One e0261039 (2022), https://doi.org/10.1371/journal.pone.0261039.

⁵⁸ The data likewise indicates that adults who receive gender-affirming care experience positive mental health outcomes. *See, e.g.,* Zoe Aldridge et al., *Long Term Effect of Gender-Affirming Hormone Treatment on Depression and Anxiety Symptoms in Transgender People: A Prospective Cohort Study,* 9 Andrology 1808–16 (2021), https://perma.cc/543U-HL5P.

⁵⁹ See Turban, Pubertal Suppression for Transgender Youth and Risk of Suicidal Ideation, supra note 56.

⁶⁰ See id.

⁶¹ See id.

⁶² See Allen, supra note 57.

study published in January 2023, following 315 participants age 12 to 20 who received gender-affirming hormone treatment, found that the treatment was associated with decreased symptoms of depression and anxiety.⁶³

As another example, a prospective two-year follow-up study of adolescents with gender dysphoria published in 2011 found that treatment with puberty blockers was associated with decreased depression and improved overall functioning. A six-year follow-up study of 55 individuals from the 2011 study found that subsequent treatment with hormone therapy followed by surgery in adulthood was associated with a statistically significant decrease in depression and anxiety. Emarkably, this study demonstrated that these transgender adolescents and young adults had a sense of well-being that was equivalent or superior to that seen in age-matched controls from the general population. English of the superior of the general population.

As scientists and researchers, *amici* always welcome more research, including on this crucial topic. However, the available data indicate that the gender-affirming medical care prohibited by the Healthcare Ban is effective for the treatment of gender dysphoria.

⁶³ See Chen, supra note 57.

⁶⁴ See Vries, Puberty Suppression in Adolescents with Gender Identity Disorder: A Prospective Follow-Up Study, supra note 56.

⁶⁵ Vries, Young Adult Psychological Outcome After Puberty Suppression and Gender Reassignment, supra note 56.

⁶⁶ Rosenthal, supra note 17, at 586.

- III. The Sixth Circuit's Opinion Relies on Factually Inaccurate Claims and Ignores Recommendations of the Medical Community
 - A. The Evidence Supporting Gender-Affirming Medical Care Is In-Line with Evidence Supporting Decisions in Other Clinical Contexts

In its opinion, the Sixth Circuit relies on the Commonwealth's assertion that there are "flaws in existing research" surrounding gender-affirming medical care.⁶⁷ To conclude that gender-affirming medical care is not well-supported by the evidence is contrary to standard clinical practices.

When the Commonwealth criticizes the studies supporting gender-affirming medical care,⁶⁸ it relies on statements referring to "high-quality" vs. "low-quality" studies under the GRADE system and the presence (or lack thereof) of randomized controlled trials.⁶⁹ Under the GRADE system, evidence may be assessed according to different categories, including "high," "moderate," "low," and "very low."⁷⁰ To suggest

⁶⁷ Pet. App. 55a.

⁶⁸ While the Commonwealth's declarants broadly criticize the evidence supporting the Guidelines, the reports upon which they rely do not evaluate, nor do they purport to evaluate, all of the evidence supporting the Guidelines. C.A. Dkt. 38, at 32–33.

⁶⁹ C.A. Dkt. 38, at 32–33 (citing declarations criticizing evidence supporting gender-affirming medical care).

⁷⁰ See Gordon H. Guyatt et al., GRADE: What Is "Quality of Evidence" and Why Is It Important to Clinicians?, 336 BMJ 995, 998 (2008), https://perma.cc/PW8P-98N7; David Atkins et al.,

that clinical practice predicated on anything but "high" quality evidence is unsafe and unsupported by best medical practices is misleading at best. Clinical practice across disciplines is commonly guided by evidence that various evidence grading systems might deem "lower quality."⁷¹ It is often the case, especially in the pediatric context, that randomized controlled trials are impossible or unethical.⁷² In such instances, as here, clinicians rely on the best evidence possible to provide treatment for their patients. The evidence supporting gender-affirming medical care is

Grading Quality of Evidence and Strength of Recommendations, 328 BMJ 1490, 1492 (2004), https://perma.cc/SXS3-F85J.

⁷¹ For example, the American Heart Association's guideline for Pediatric Basic and Advanced Life Support includes 130 recommendations for pediatric care, only 1 of which is predicated on Level A ("high quality evidence from more than 1 RCT") evidence. Alexis A. Topjian et al., *2020 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care*, 142 Circulation S469–523 (2020), https://perma.cc/RG3A-DSWS. The majority of the recommendations rely on what was deemed Level C-LD ("limited data") evidence. *Id.*

 $^{^{72}\,\}text{``[I]}n$ transgender clinical research individual randomized controlled trials (RCTs) may not always be feasible or ethically

consistent with the type of evidence relied on in other clinical practices throughout the medical community.

In addition, the Sixth Circuit appears to conflate the use of FDA-approved medications for other indications with the use of *non*-FDA-approved medications.⁷³ According to the FDA, "once the FDA approves a drug, healthcare providers generally may prescribe the drug for an unapproved use when they judge that it is medically appropriate for their patient."⁷⁴ Off-label drug use is common, particularly in disciplines such as pediatrics, where patients are less likely to be included in clinical trials.75 "[I]n no way does a lack of labeling signify that therapy is unsupported by clinical experience or data in children."76 The FDA does not regulate the practice of medicine and a lack of labeling should not be confused for a finding of contraindication or unsafety.⁷⁷ Genderaffirming medications have been approved by the FDA. To suggest that using those medications to treat gender dysphoria is disapproved, or or an u

prohibited based on a lack of approval, is incorrect and contradicts common medical practices.

B. Gender-Affirming Medical Care Is Provided Internationally.

The Sixth Circuit wrongly suggests that there is a vigorous international debate about whether to ban gender-affirming medical care.⁷⁸ The Commonwealth attempts to rely on examples from Sweden, certain countries in the United Kingdom, and Norway⁷⁹ but, in fact, none of these countries—in contrast to Kentucky—categorically ban gender-affirming medical care. The United Kingdom provides gender-affirming medical care through its National Health Service.⁸⁰ Sweden offers gender-affirming medical care through its national health care system, and youth in Sweden are able to access gender-affirming medical care when their providers deem it medically

⁷⁸ See Pet. App. 29a.

⁷⁹ See C.A. Dkt. 38 (Br. of Intervenor-Appellant) at 5–6.

⁸⁰ Policies vary throughout the countries of the United Kingdom with regard to the circumstances under which gender-affirming medical care may be provided to adolescents. See, e.g., NHS Services. The Young People's Gender Service. https://perma.cc/75AL-6KJD (gender-affirming Scotland). The National Health Service in England and Wales recently published an interim service specification that narrows some of their policies on gender-affirming medical care for adolescents to incorporate research protocols, but the interim specification does not contemplate a categorical ban on such care. See NHS Services, Interim Service Specification for Specialist Gender Incongruence Services for Children and Young People, https://perma.cc/5LU2-QBWN. A non-interim (i.e., "a national service specification") is not expected for several months.

necessary.81

Denmark,⁸⁶ Germany,⁸⁷ Mexico,⁸⁸ New Zealand,⁸⁹ Norway,⁹⁰

alleviate suffering, and that is grounded in science and endorsed by the medical community. The genderaffirming medical care prohibited by the Healthcare Ban can be a crucial part of treatment for adolescents with gender dysphoria and necessary to preserve their health.

As discussed above, research shows that adolescents with gender dysphoria who receive puberty blockers and/or hormone therapy experience less depression, anxiety, and suicidal ideation. Several studies have found that hormone therapy is