

**IN THE SUPREME COURT OF FLORIDA**

CASE NO. SC2022-1050

PLANNED PARENTHOOD OF SOUTHWEST AND CENTRAL  
FLORIDA, on behalf of itself, its staff, and its patients, *et al.*,

Petitioners,

v.

STATE OF FLORIDA, *et al.*,

Respondents.

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ON DISCRETIONARY REVIEW FROM THE  
FIRST DISTRICT COURT OF APPEAL

CONSOLIDATED WITH CASE No. SC2022-1127  
LOWER TRIBUNAL NOS. 1D22-2034, 2022-CA-912

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**AMICUS CURIAE BRIEF OF THE CHARLOTTE LOZIER INSTITUTE  
IN SUPPORT OF RESPONDENTS**

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## IDENTITY AND INTEREST OF AMICUS CURIAE

The Charlotte Lozier Institute<sup>1</sup> (CLI) files this amicus curiae brief in support of Respondents. CLI is a nonprofit research and education organization committed to bringing modern science to bear in life-related policy and legal decision-making. CLI believes the legal precedents and principles governing abortion should be informed by the most current medical and scientific knowledge on human development. As such, CLI has a strong interest in this case because it believes this Court's abortion precedents, *e.g.*, *In re T.W.*, 551 So. 2d 1186 (Fla. 1989), were limited by the scientific understanding of their time. Scientific understanding of human fetal life has expanded exponentially over the past decades, and this Court should revisit its precedents and incorporate the compelling State interests implicated by current scientific knowledge about pre-viability fetal life. This Court should also uphold House Bill 5 (H.B. 5),<sup>2</sup> which prohibits the abortion, with some exceptions, of a fetus after 15 weeks' gestation. The State has a compelling interest in protecting fetal life, as set forth in that statute, before viability and the completion of the second trimester.

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<sup>1</sup> The legal name of the Charlotte Lozier Institute is the Susan B. Anthony List Inc. Education Fund, a 501(c)(3) charitable nonprofit that is separate from the Susan B. Anthony List Inc., a 501(c)(4) social-welfare entity. This Court granted leave to file this brief on March 30, 2023.

<sup>2</sup> H.B. 5 is codified at Florida Statutes §§ 390.011, 390.0111.

## **SUMMARY OF ARGUMENT**

Scientific and technological advancements since *Roe v. Wade* and *In re T.W.* underscore the State's compelling interests in protecting fetal life before viability. For instance, 4D ultrasonography has provided direct and convincing proof of fetal discernment, intentionality, and sociality from as early as 12 weeks of life. Moreover, a mountain of recent scientific evidence shows that, through neural structures developing between 12 and 18 weeks, the fetus can and does experience conscious pain *in utero*. Given the wealth of recent scientific evidence establishing the human fetus's independent conscious experience and actual suffering, this Court should revisit and overrule its abortion precedents and uphold H.B. 5.

## **ARGUMENT**

When it interpreted Florida's Privacy Clause, which does not address abortion, this Court built its abortion case law, *e.g.*, *In re T.W.*, 551 So. 2d 1186 (Fla. 1989), on the abortion precedents of the United States Supreme Court. This Court adopted the end of the first trimester as the point when the State's interest in maternal health becomes compelling, *id.* at 1193-94 (relying on *Roe v. Wade*, 410 U.S. 113 (1973)), and adopted the concept that a State's interest in the fetus becomes compelling upon viability, that is,

upon completion of the second trimester,<sup>3</sup> *id.* (relying on *Roe*, 410 U.S. at 160, 163 and on the concurring/dissenting opinion in *Webster v. Reproductive Health Servs.*, 492 U.S. 490, 552-54 & n.9 (1989)). *Roe* and its progeny are no longer valid as a result of *Dobbs v. Jackson Women's Health Org.*, 142 S. Ct. 2228 (2022).<sup>4</sup> This Court should overrule its abortion case law, which is based on erroneous legal analysis and is unsound in principle.<sup>5</sup> See *State v. Poole*, 292 So. 3d 694, 712-13 (Fla. 2020). Moreover, this Court should uphold H.B. 5, which prohibits abortion, with some exceptions, if a physician determines the gestational age of the fetus is more than 15 weeks. The State has a compelling interest in protecting fetal life, as set forth in that statute, before viability and the completion of the second trimester.

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<sup>3</sup> The second trimester begins in the 12th week and runs through the 23rd week of gestation. Fla. Stat. § 390.011(12)(b).

<sup>4</sup> CLI filed a similar amicus curiae brief in *Dobbs*.

<sup>5</sup> In addition to *In re T.W.*, see the abortion decisions in *Gainesville Woman Care, LLC v. State*, 210 So. 3d 1243 (Fla. 2017); *North Fla. Women's Health & Counseling Servs. v. State*, 866 So. 2d 612 (Fla. 2003); *Renee B. v. Fla. Agency for Health Care Admin.*, 790 So. 2d 1036 (Fla. 2001); see also *Winfield v. Div. of Pari-Mutuel Wagering*, 477 So. 2d 544, 546 (1985) (relying on *Roe* in considering the scope of Florida's Privacy Clause).

## I.

### **Since *Roe* and *In re T.W.*, Technological and Medical Advances Have Greatly Expanded Scientific Understanding of Fetal Consciousness and Capacity for Suffering**

Although researchers have been interested in the cognitive and social behaviors of the fetus since the late 1800s, the nature of pregnancy obscured direct observation. More rigorous investigations of fetal behavior only became possible at the end of the 20th century.<sup>6</sup> In particular, 4D ultrasonography created an unprecedented new tool for studying fetal behavior and opened entirely new fields of research including “fetal neurology,” “fetal psychology,” and “fetal neurobehavior.”<sup>7</sup> These tools have given us a far better understanding of fetal consciousness and pain than was available during the times of *Roe* and *In re T.W.*

## A.

### **Recent Scientific Advances Demonstrate Fetal Consciousness from Early in the Second Trimester**

Modern technological advancements have allowed researchers to

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<sup>6</sup> Gabriella A. Ferrari, *et al.*, *Ultrasonographic Investigation of Human Fetus Responses to Maternal Communicative and Non-communicative Stimuli*, 7 *Frontiers Psych.*, at 1-2 (2016).

<sup>7</sup> Susan Raatz Stephenson, *3D and 4D Sonography: History and Theory*, 21 *J. Diagnostic Med. Sonography* 392 (2005); Mihaela Grigore, *et al.*, *The Role of 4D US in Evaluation of Fetal Movements and Facial Expressions and Their Relationship with Fetal Neurobehaviour*, 20 *Med. Ultrasonography* 88, 88 (2018).

confirm fetal consciousness by directly observing fetal behavior, including reactions to external stimuli, and then comparing that objective behavior to comparable behavior exhibited in human infants, adults, and animals having a conscious experience.<sup>8</sup> There is now clear evidence that fetuses as early as 12 weeks<sup>9</sup> exhibit conscious, intentional behavior, and that they actively discriminate among similar sensory experiences. For example, use of ultrasonography on fetal twins not only shows intentional fetal movements, but also shows a social dimension at an early stage of gestation. Such analysis shows that fetuses as young as 12 weeks demonstrate longer movement duration and deceleration time for movements directed at their twin compared to those directed at either themselves or at the uterine wall. Also, these other-directed movements increase with gestational age even as self-directed movements decrease. Thus, fetal movements “specifically aimed at the co-twin” evince fetal capacity for “social actions” as early as 12 weeks and confirm that such movements are intentional rather than

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<sup>8</sup> See, e.g., Marisa López-Teijón, *et al.*, *Fetal Facial Expression in Response to Intravaginal Music Emission*, 23 *Ultrasound* 216, 217 (2015) (noting the “great potential [of] modern 3D/4D ultrasound” to “identify[] specific movements that might be more reliably associated with fetal response”).

<sup>9</sup> Herein, unless otherwise noted, references to the developmental age of the fetus are given in weeks since sperm-egg fusion (post-fertilization age). For gestational age based on the last menstrual period (LMP), add two weeks.

random.<sup>10</sup>

These studies suggest that fetal behavior—as early as 12 weeks—is neither accidental nor merely reflexive. Instead, they demonstrate a pre-viability fetus’s conscious awareness of its environment, active discrimination among similar sensory experiences, and intentional—even social—planning of physical actions.

## **B.**

### **Recent Scientific Evidence Demonstrates That Fetal Capacity for Suffering Arises Early in the Second Trimester**

Scientific advances since *Roe* and *In re T.W.* show that the fetus can and does experience pain from early in the second trimester. Brain mapping and other new methods have generated overwhelming evidence that neurocircuitry present from early in the second trimester is sufficient for both consciousness and suffering, while direct observations of fetal behavior confirm that young fetuses consciously react to painful stimuli. Indeed, pain receptors (nociceptors) begin forming at 7 weeks’ gestation.<sup>11</sup>

There is longstanding and effectively universal scientific agreement

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<sup>10</sup> Umberto Castiello, *et al.*, *Wired to Be Social: The Ontogeny of Human Interaction*, PLoS ONE (Oct. 7, 2010), <https://doi.org/10.1371/journal.pone.0013199>.

<sup>11</sup> L.B. Myers, *et al.*, *Fetal Endoscopic Surgery: Indications and Anaesthetic Management*, 18 *Best Practice & Research Clinical Anaesthesiology* 231 (2004); K.J.S. Anand, *et al.* *Pain and Its Effects in the Human Neonate and Fetus*, 317 *New England J. of Med.* 1321 (1987).



that connections between the fetus’s spinal cord and the subcortical nuclei in the thalamus region of the brain begin to form between 12 and 18 weeks.<sup>12</sup> In the past, however, many espoused the unproven theory that conscious fetal suffering was impossible before the development of thalamocortical and intracortical circuitry beginning at about 22 weeks. For example, Dr. Stuart Derbyshire, a brain mapping researcher and *pro-choice* consultant who has written extensively on fetal pain since 1994,<sup>13</sup> was until recently considered “a leading voice against the likelihood of fetal pain,”<sup>14</sup> based chiefly on the assumption that the cortex was necessary for such pain.<sup>15</sup> In fact, Dr. Derbyshire was one of only two neuroscientists on the panel that produced the 2010 Royal College of Obstetricians and Gynaecologists (RCOG) report<sup>16</sup> rejecting the possibility of fetal pain before 22 weeks—not as a

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<sup>12</sup> See, e.g., Ivica Kostovic & Patricia S. Goldman-Rakic, *Transient Cholinesterase Staining in the Mediodorsal Nucleus of the Thalamus and Its Connections in the Developing Human and Monkey Brain*, 219 *J. of Compar. Neurology* 431 (1983).

<sup>13</sup> See Stuart W.G. Derbyshire & John C. Bockmann, *Fetal Pain and Abortion*, *J. Med. Ethics: Blog* (Jan. 15, 2020), <https://blogs.bmj.com/medical-ethics/2020/01/15/fetal-pain-and-abortion/>.

<sup>14</sup> See Pam Belluck, *Complex Science at Issue in Politics of Fetal Pain*, *N.Y. Times* (Sept. 17, 2013), <https://www.nytimes.com/2013/09/17/health/complex-science-at-issue-in-politics-of-fetal-pain.html>.

<sup>15</sup> See, e.g., Stuart W.G. Derbyshire, *Can Fetuses Feel Pain?*, 332 *British Med. J.* 909, 909-912 (2006).

<sup>16</sup> Royal College of Obstetricians & Gynaecologists, *Fetal Awareness: Review of Research and Recommendations for Practice* ix (2010).

tested conclusion but merely as an inference flowing from the unproven “belie[f] that the cortex is necessary for pain perception.”<sup>17</sup>

And yet, in 2020, when faced with mounting scientific evidence to the contrary, Dr. Derbyshire abandoned his position on the cortex’s necessity. He noted that even without a fully formed cortex, the mere projection of the thalamus into the cortical subplate area of the brain—which occurs at an early stage of neurological development—could be sufficient for pain perception and that such projections begin to emerge at 12 weeks post-fertilization. On the strength of that and other evidence, Dr. Derbyshire publicly reversed his position on fetal pain capacity. He now concludes that “the evidence, and a balanced reading of that evidence, points toward an immediate and unreflective pain experience mediated by the developing function of the nervous system from as early as 12 weeks.”<sup>18</sup>

Indeed, a fair view of the current evidence shows that claims denying

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<sup>17</sup> *Id.* at viii; *cf.* Susan J. Lee, *et al.*, *Fetal Pain: A Systematic Multidisciplinary Review of the Evidence*, 294 J. Am. Med. Ass’n 947, 949 (2005) (asserting, without citation to any evidence or authority, that “the psychological nature of pain presupposes the presence of functional thalamocortical circuitry required for conscious perception”).

<sup>18</sup> Stuart W.G. Derbyshire & John C. Bockmann, *Reconsidering Fetal Pain*, 46 J. Med. Ethics 3, 6 (2020); *see also id.* at 4 (“current neuroscientific evidence undermines the necessity of the cortex for pain experience. . . . it is now clear that the [position rejecting fetal pain before 22 weeks’ post-fertilization] is no longer tenable”).

fetal pain without the cortex rest on an unsupported assertion,<sup>19</sup> while an enormous body of data—representing multiple, independent lines of scientific evidence—all point to the pre-viability fetus’s developmental capacity for, and actual experience of, conscious suffering.

**First**, five separate lines of evidence show that both animals and humans exhibit consciousness and suffering even when the cortex is impaired, immature, or absent, and that deletions of *subcortical* circuitry (circuitry below the cortex region) are sufficient to cause disorders of consciousness:

1). While the neocortex (the largest region of the cortex) is unique to mammals, animals that entirely lack that region of the brain (fish, amphibians, reptiles, and birds) are both conscious and capable of suffering.<sup>20</sup>

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<sup>19</sup> See, e.g., Lee, *supra* note 17, at 949 (asserting, without citation to any evidence or authority, that “pain perception requires cortical recognition of the stimulus as unpleasant”).

<sup>20</sup> Studies have determined that the neural structures underlying the most primitive form of consciousness in both humans and animals are found in subcortical regions of the brain. See, e.g., Jaak Panksepp, *Cross-species Affective Neuroscience Decoding of the Primal Affective Experiences of Humans and Related Animals*, PLoS ONE (Sept. 7, 2011, <https://doi.org/10.1371/journal.pone.0021236>); Franco Fabbro, *et al.*, *Evolutionary Aspects of Self- and World Consciousness in Vertebrates*, *Frontiers Hum. Neuroscience*, March 26, 2015, at 8. These “subcortical circuits” would include brain structures well developed in a human fetus at or before 18 weeks.

2). Mammals (including rodents, cats, and primates) that have had the cortex partially or fully removed remain conscious and continue to show a vigorous response to painful stimuli.<sup>21</sup>

3). Similarly, human children born without the cortex (“decorticate” or hydraencephalic patients) are conscious, indicating that long-range cortical connections developing only after 22 weeks in the human fetus, and completely absent in these patients, are not necessary for consciousness or for a psychological perception of suffering.<sup>22</sup>

4). Multiple studies indicate that, while human processing of pain and the associations it elicits may become more complex over time, perception of

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<sup>21</sup> Brigitte K. Matthies & Keith B.J. Franklin, *Effects of Partial Decortication on Opioid Analgesia in the Formalin Test*, 67 *Behav. Brain Resch.* 59 (1995); Brigitte K. Matthies & Keith B.J. Franklin, *Formalin Pain is Expressed in Decerebrate Rats but not Attenuated by Morphine*, 51 *Pain* 199 (1992); Duke Tanaka, Jr., *Effects of Selective Prefrontal Decortication on Escape Behavior in the Monkey*, 53 *Brain Resch.* 161 (1973); Karen J. Berkley & Ronald Parmer, *Somatosensory Cortical Involvement in Responses to Noxious Stimulation in the Cat*, 20 *Experimental Brain Research* 363 (1974).

<sup>22</sup> Also, these studies show that decorticate or hydraencephalic patients are capable of conscious behaviors, including having preferences for particular kinds of music and having adverse reactions to pain. Majid Beshkar, *The Presence of Consciousness in the Absence of the Cerebral Cortex*, 62 *Synapse* 553 (2008); D. Alan Shewmon, *et al.*, *Consciousness in Congenitally Decorticate Children: Developmental Vegetative State as Self-Fulfilling Prophecy*, 41 *Dev. Med. & Child Neurology* 364 (1999); Bjorn Merker, *Consciousness without a Cerebral Cortex: A Challenge for Neuroscience and Medicine*, 30 *Behav. & Brain Sci.* 63 (2007).

pain remains relatively constant from childhood into adulthood,<sup>23</sup> demonstrating that late-developing cortical circuitry is unnecessary for a conscious experience of suffering.<sup>24</sup>

5). In 2015, the largest study to date of human patients with consciousness disorders unambiguously concluded that the loss of consciousness is associated not with the loss of cortical, but rather of subcortical circuitry.<sup>25</sup> And experts in the study of consciousness have elsewhere concluded that consciousness clearly persists even without “vast regions of the cortex.”<sup>26</sup>

**Second**, four separate lines of evidence show that consciousness and emotions do not arise in the cortex, but rather depend on subcortical circuitry,

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<sup>23</sup> Lynda L. Lamontagne, *et al.*, *Children’s Ratings of Postoperative Pain Compared to Ratings by Nurses and Physicians*, 14 *Comprehensive Pediatric Nursing* 241 (1991); J. Emily Harrop, *Management of Pain in Childhood*, 92 *Archives of Disease in Childhood – Educ. & Prac.* 101 (2007).

<sup>24</sup> See, e.g., Ulrike Bingel & Irene Tracey, *Imaging CNS Modulation of Pain in Humans*, 23 *Physiology* 371 (2008); Nitin Gogtay, *et al.*, *Dynamic Mapping of Human Cortical Development During Childhood Through Early Adulthood*, 101 *Proc. Nat’l. Acad. Sci. U.S.* 8174 (2004); Elizabeth R. Sowell, *et al.*, *Mapping Cortical Change Across the Human Life Span*, 6 *Nature Neuroscience* 309 (2003).

<sup>25</sup> Evan S. Lutkenhoff, *et al.*, *Thalamic and Extrathalamic Mechanisms of Consciousness after Severe Brain Injury*, 78 *Annals of Neurology* 68, 68 (2015).

<sup>26</sup> Ezequiel Morsella, *et al.*, *Minimal Neuroanatomy for a Conscious Brain: Homing in on the Networks Constituting Consciousness*, 23 *Neural Networks* 14, 14 (2010).

including the thalamus. These studies strongly establish that consciousness, although later contextualized in the cortex, originates in the thalamus rather than the cortex:

1). An authoritative review of the neural basis for human consciousness and emotion concludes that “the available evidence indicates that” later-developing “sectors of the nervous system, such as the cerebral cortex, contribute to but are not essential for the emergence of feelings, which are likely to arise instead from older regions such as the brainstem” and that the “neural substrates [of consciousness] can be found at all levels of the nervous system.”<sup>27</sup>

2). In the last decade, studies using high-resolution brain imaging in both animals<sup>28</sup> and humans<sup>29</sup> have strongly indicated that anesthesia-induced loss of consciousness, and therefore conscious pain perception, is associated with a reduction in the activity of the thalamus, that is only later

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<sup>27</sup> Antonio Damasio & Gil B. Carvalho, *The Nature of Feelings: Evolutionary and Neurobiological Origins*, 14 *Nature Rev. Neuroscience* 143, 143 (2013).

<sup>28</sup> Rowan Baker, et al., *Altered Activity in the Central Medial Thalamus Precedes Changes in the Neocortex During Transitions into Both Sleep and Propofol Anesthesia*, 34 *J. Neuroscience* 13326 (2014).

<sup>29</sup> Xiao-xing Song & Bu-wei Yu, *Anesthetic Effects of Propofol in the Healthy Human Brain: Functional Imaging Evidence*, 29 *J. Anesthesia* 279 (2015); Tommaso Gili, et al., *The Thalamus and Brainstem Act as Key Hubs in Alterations of Human Brain Network Connectivity Induced by Mild Propofol Sedation*, 33 *J. Neuroscience* 4024 (2013).

followed by suppression of cortical activity in response to reduced thalamic function.

3). Rigorous brain stimulation studies demonstrate that pain can rarely if ever be elicited by activating cortical circuitry. This indicates that, while the cortex may build upon painful experiences generated by other brain regions, it is largely *not* involved in producing a conscious experience of pain; that is, in humans, the conscious experience of suffering depends almost entirely on subcortical brain regions that develop very early in the life of the fetus.<sup>30</sup>

4). Finally, a large body of direct experimental and medical evidence contradicts the assertion that suffering requires cortical circuitry. Interventions such as ablation<sup>31</sup> or stimulation<sup>32</sup> of the cortex do not affect

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<sup>30</sup> The most scientifically accurate way of determining the neural structures *sufficient* for a conscious experience of suffering is to stimulate a specific brain region in an alert patient and observe whether a pain response is elicited. A recent study of over 4,000 stimulations of the cortex determined that pain responses were surprisingly rare (approximately 1.4%). Laure Mazzola, *et al.*, *Stimulation of the Human Cortex and the Experience of Pain: Wilder Penfield's Observations Revisited*, 135 *Brain: J. Neurology* 631, 631 (2012). Such findings strongly disassociate the cortex from the production of conscious suffering.

<sup>31</sup> See sources cited *supra* note 21.

<sup>32</sup> Chikashi Fukaya, *et al.*, *Motor Cortex Stimulation in Patients with Post-Stroke Pain: Conscious Somatosensory Response and Pain Control*, 25 *Neurological Rsch.* 153 (2003); Mazzola, *supra* note 30.

pain perception, while altering the function of subcortical structures<sup>33</sup> does, and is a highly effective treatment for patients with chronic pain.<sup>34</sup>

Taken together, the above-stated nine lines of evidence—representing an extensive and diverse body of data generated almost entirely in the last two decades (that is, *after Roe* and *In re T.W.*)—indicate that consciousness and feeling, including conscious suffering, do not depend on cortical circuitry and are instead mediated by sub-cortical brain networks.<sup>35</sup> And, as noted above, there is overwhelming scientific agreement that, besides thalamic projections into the cortical subplate at 12 weeks, the subcortical, spinothalamic circuits capable of pain perception are established in a human fetus between 12 and 18 weeks.

**Third** and finally, observations of fetal and newborn responses to

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<sup>33</sup> Dipankar Nandi, *et al.*, *Thalamic Field Potentials in Chronic Central Pain Treated by Periventricular Gray Stimulation – A Series of Eight Cases*, 101 *Pain* 97 (2003); Sandra G.J. Boccard, *et al.*, *Long-term Outcomes of Deep Brain Stimulation for Neuropathic Pain*, 72 *Neurosurgery* 221 (2013).

<sup>34</sup> For example, so-called “Deep Brain Stimulation” of the thalamus, periaqueductal grey matter, and internal capsule—all early-developing, subcortical brain structures—is a widely used pain therapy. See Steven M. Falowski, *Deep Brain Stimulation for Chronic Pain*, 19 *Current Pain & Headache Rep.* 27, 27 (2015); Richard G. Bittar, *et al.*, *Deep Brain Stimulation for Pain Relief: A Meta-Analysis*, 12 *J. Clinical Neuroscience* 515 (2015).

<sup>35</sup> See also Derbyshire & Bockmann, *supra* note 18, at 4 nn. 23, 26-32 (reviewing numerous recent studies undermining the necessity of the cortex for pain experience).



stimuli, including 4D ultrasonographic studies of fetal behavior, provide direct, compelling evidence of the fetus's awareness of, and sensitivity to, painful stimuli:

1). In considering use of anesthesia for invasive medical procedures performed on the fetus, a recent review of the evidence concluded that from the 13th week onward, "the fetus is extremely sensitive to painful stimuli," making it "necessary to apply adequate analgesia to prevent [fetal] suffering."<sup>36</sup> Moreover, while some had previously argued that the fetus is maintained in a constant state of sleep due to the presence of endocrine neuroinhibitors (ENIs) in the uterine environment, recent reviews of the literature indicate that the level of ENIs actually present *in utero* does not provide adequate anesthetic effect, and that the fetus can therefore be awakened by painful stimuli.<sup>37</sup>

2). Fetuses delivered prematurely (as early as 21 weeks) show clear pain-related behaviors.<sup>38</sup> But even more tellingly, the earlier the infants are

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<sup>36</sup> Slobodan Sekulic, *et al.*, *Appearance of Fetal Pain Could be Associated with Maturation of the Mesodiencephalic Structures*, 9 J. Pain Rsch. 1031, 1036 (2016).

<sup>37</sup> Carlo V. Bellieni, *et al.*, *Is Fetal Analgesia Necessary During Prenatal Surgery?*, 31 J. Maternal-Fetal & Neonatal Med. 1241 (2018); Carlo V. Bellieni, *Analgesia for Fetal Pain During Prenatal Surgery: 10 Years of Progress*, 89 Pediatric Rsch. 1612 (2021).

<sup>38</sup> Sharyn Gibbins, *et al.*, *Pain Behaviours in Extremely Low Gestational Age Infants*, 84 Early Hum. Dev. 451 (2008).

delivered, the stronger their response to pain,<sup>39</sup> suggesting that later-developing cortical circuits, rather than enabling pain perception, moderate or even inhibit conscious suffering.<sup>40</sup>

3). Last and most powerfully, cutting-edge 4D ultrasound studies confirm that the fetus, when subjected to painful stimuli, reacts with recognizable facial expressions consistently linked to a conscious experience of pain. For instance, a well-controlled study published in January 2021<sup>41</sup> demonstrated that fetuses undergoing injection of anesthetic into the thigh prior to a painful surgical procedure at approximately 29 weeks make facial gestures (grimacing, etc.)<sup>42</sup> that are specifically associated with a conscious pain experience from the injection, with such gestures not occurring either at rest or after a “startling” stimulus.

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<sup>39</sup> Lina Kurdahi Badr, *et al.*, *Determinants of Premature Infant Pain Responses to Heel Sticks*, 36 *Pediatric Nursing* 129 (2010).

<sup>40</sup> Michael H. Ossipov, *et al.*, *Descending Pain Modulation and Chronification of Pain*, 8 *Current Op. Supportive & Palliative Care* 143 (2014); Mikwang Kwon, *et al.*, *The Role of Descending Inhibitory Pathways on Chronic Pain Modulation and Clinical Implications*, 14 *Pain Prac.* 656 (2014).

<sup>41</sup> Lisandra S. Bernardes, *et al.*, *Sorting Pain Out of Salience: Assessment of Pain Facial Expressions in the Human Fetus*, *Pain Rep.*, Jan. 2021, at 1-9.

<sup>42</sup> *Id.* at 5 (Figure 4, showing ultrasound images of pain expressions), 8 (links to ultrasound videos showing: (a) reaction to painful stimulus (<http://links.lww.com/PR9/A91>), (b) control group at rest (<http://links.lww.com/PR9/A920>), and (c) control group reacting to acousticstartle (<http://links.lww.com/PR9/A93>)).

Because of the small size of the fetus before the third trimester, *in utero* surgery at earlier ages was rare until fairly recently.<sup>43</sup> Yet, a June 2021 case study<sup>44</sup> has confirmed previous results and extended them into pre-viability, observing that a fetus undergoing heart surgery at 23 weeks post-fertilization also reacted with facial expressions showing a conscious experience of pain upon injection of anesthetic into the thigh.<sup>45</sup>

This last category of studies—involving fetal facial expressions—is especially compelling on the question of fetal consciousness. Facial-action coding systems have been widely used to assess pain in adult humans, infants, and even in diverse animal species (including mice, horses, and cats) based on strong evidence that “facial expression can be used to quantify pain in individuals who are unable to express themselves verbally,” such as “infants, young children, [or] those with verbal or cognitive impairments.”<sup>46</sup> Specific behavioral measures have been developed for neonates, infants, patients with dementia and comatose patients with minimal levels of

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<sup>43</sup> See, e.g., Colleen Malloy, *et al.*, *The Perinatal Revolution*, 34 *Issues in L. & Med.* 15, 19-20 (2019).

<sup>44</sup> Lisandra S. Bernardes, *et al.*, *Facial Expressions of Acute Pain in 23-week Fetus*, 59 *Ultrasound in Obstetrics & Gynecology* 394, 394 (2021).

<sup>45</sup> *Id.* (ultrasound video available at [https://obgyn.onlinelibrary.wiley.com/action/downloadSupplement?doi=10.1002%2Fuog.23709&file=uo g23709-sup-0001-VideoS1.mp4](https://obgyn.onlinelibrary.wiley.com/action/downloadSupplement?doi=10.1002%2Fuog.23709&file=uo%20g23709-sup-0001-VideoS1.mp4)).

<sup>46</sup> Christine T. Chambers & Jeffrey S. Mogil, *Ontogeny and Phylogeny of Facial Expression of Pain*, 156 *Pain* 798, 798 (2015).

consciousness.<sup>47</sup> In contrast, facial expression of pain does not consistently occur in unconscious individuals,<sup>48</sup> although pain is routinely assessed in such patients by other physiologic and neurologic criteria.

These studies provide even more conclusive proof that, at or before 21 weeks of life (well before the elaboration of connections between the thalamus and the cortex), the fetus is not merely reacting to pain in an unconscious, reflexive manner, but can communicate a conscious experience of suffering through a universal pain language unused by unconscious or anesthetized individuals.

In sum, the above-stated 12 lines of evidence support the conclusions that (a) contrary to the critical assumption made by RCOG and other physician trade associations, a connection between the thalamus and the cortex is *unnecessary* for a fetus to be conscious and to experience suffering, and (b) a fetus is likely conscious and capable of apprehending pain at or before 18 weeks—and perhaps as early as 12 weeks.<sup>49</sup>

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<sup>47</sup> Caroline Schnakers, *et al.*, *Assessment and Detection of Pain in Noncommunicative Severely Brain-Injured Patients*, 10 *Expert Rev. Neurotherapeutics* 1725, 1725-1731 (2010).

<sup>48</sup> Céline Gélinas, *et al.*, *Behaviors Indicative of Pain in Brain-Injured Adult Patients with Different Levels of Consciousness in the Intensive Care Unit*, 57 *J. Pain & Symptom Mgmt.* 761, 761-773 (2019).

<sup>49</sup> See Charlotte Lozier Inst., *Science of Fetal Pain* (Sept. 13, 2022), <https://lozierinstitute.org/fact-sheet-science-of-fetal-pain/> (documenting that

*(Footnote continues)*

## II. These Scientific Advances Support the State's Compelling Interest to Prevent Harm to a Fetus After 15 Weeks' Gestation

This large and growing body of evidence of fetal consciousness and suffering, developed in the decades since *Roe* and *In re T.W.*, puts to rest any empirical question of whether the fetus is alive before viability: Any active, growing organism is clearly “alive” as that term is overwhelmingly understood.<sup>50</sup> And, as an organism of human origin, showing multiple signs of consciousness and emotion, a fetus is not merely “alive” but also capable at an early age of planning, discriminating, learning, and emotional feeling.

Because of the growing body of cutting-edge studies demonstrating fetal consciousness and suffering, the State's compelling interests continue to grow. Given the astonishing rate of scientific advancement, it would be difficult to predict what human knowledge will reveal and make possible in the next 10, 20, or 30 years. But because the fetus is pre-verbal, certain scientific methodologies for evaluating consciousness in adult human subjects may never be available with the fetus. Perhaps most obviously, researchers

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fetuses can feel pain at least by 15 weeks' gestation and possibly earlier, that the standard of medical care now calls for direct fetal analgesia and anesthesia during fetal surgery, beginning at least by 15 weeks, and that babies are surviving and thriving at ever younger pre-term ages when given appropriate care and treatment).

<sup>50</sup> See, e.g., Bernd Rosslénbroich, *Properties of Life: Toward a Coherent Understanding of the Organism*, 64 *Acta Biotheoretica* 277 (2016).

cannot query the fetus, ask fetuses to describe their conscious experience of pain, or compare such responses to those of other subjects.

But more broadly, no truly subjective experience—even those verbalized by another human adult—can be “known” to the observer in the sense of absolute scientific certainty. No human endeavor could credibly claim to be premised on such a degree of proof, nor could such an impossible standard supply the foundation for any legal doctrine, constitutional or otherwise. It is sufficient that a growing number of independent, rigorous, technically sophisticated methodologies each corroborate the fetus’s biological capacity for, and measurable demonstration of, consciousness and suffering. This consciousness and suffering occurs *before* this Court’s previous determination that the State has no interest in fetal life until the completion of the second trimester. *In re T.W.*, 551 So. 2d at 1193-94.

Throughout history, there has been a recurring debate over the controversial position that the extent to which a living human being should be entitled to legal protection and basic dignity is dependent upon his or her medical conditions, expected quality of life, potential to contribute to society, etc. *See, e.g., Washington v. Glucksberg*, 521 U.S. 702, 729 (1997). It is well established, however, that “a State may properly decline to make judgments about the ‘quality’ of life that a particular individual may enjoy, and simply

assert an unqualified interest in the preservation of human life.” *Cruzan v. Dir., Mo. Dep’t of Health*, 497 U.S. 261, 282 (1990); *Glucksberg*, 521 U.S. at 729 (“[The State] . . . insists that all persons’ lives, from beginning to end, regardless of physical or mental condition, are under the full protection of the law.”). For instance, a State Legislature has substantial leeway to ensure that the lives of human beings that have a disability or terminal condition are no less valued than the lives of others. *Glucksberg*, 521 U.S. at 731-32. The task of weighing the “unquestionably important and legitimate” interests at play when the lives of these individuals are at risk is a quintessentially legislative task. *Id.* at 735. The State has, and may pursue through legislation, “a legitimate and substantial interest in preserving and promoting fetal life.” *Gonzales v. Carhart*, 550 U.S. 124, 145 (2007); *see also Dobbs*, 142 S. Ct. at 2284 (the State’s “legitimate interests include respect for and preservation of prenatal life at all stages of development; the protection of maternal health and safety; . . . [and] the mitigation of fetal pain. . . .”) (citations omitted).

Here, the Florida Legislature has determined that abortion should be prohibited, under most circumstances, if the gestational age of the fetus is more than 15 weeks. That determination should be upheld as it is within the State’s compelling interest.

## CONCLUSION

This Court should overrule its abortion precedents and uphold H.B. 5.

Respectfully submitted,

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## CERTIFICATE OF SERVICE

I certify that on April 10, 2023, a true and correct copy of the above brief was furnished by electronic service through the Florida Courts E-Filing Portal to counsel of record.

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