**CEREBRAL PALSY LITIGATION AFTER FIFTY YEARS: THE HOAX ON YOU**

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**ABSTRACT**

The worldwide cerebral palsy (CP) litigation crisis is predicated on the hoax that electronic fetal monitoring (EFM) predicts and prevents CP. There are decades of research disproving this hoax, yet EFM continues to be performed in the vast majority of labors in developed countries with resultant harm to mothers and babies alike through unnecessary caesarean sections with all of the attendant complications and ramifications of that procedure. This article reviews the history and evolution of EFM, explores the reasons for its misuse, discusses how obstetricians have abandoned their ethical mandate by failing to obtain informed consent for EFM, and proposes a realistic, practical solution through changing the standard of care thereby linking EFM to the Daubert exclusionary evidence doctrine allowing this junk science to be banished from the courtroom.

**Keywords:** Medical ethics, bioethics, cerebral palsy, electronic fetal monitoring, malpractice

**MANUSCRIPT**

America and many of the world's industrialized countries have a cerebral palsy (CP) litigation crisis. 1-6

For almost fifty years trial lawyers and their CP courtroom experts have convinced judges and juries that physicians cause CP at birth.4 This causation theory is the millennium's second greatest hoax, the first being the hoax that electronic fetal monitoring (EFM) predicts and prevents CP. 2, 4, 7 Together these hoaxes deceive millions more even than Orson Welles' famous 1938 War of the Worlds radio broadcast. 8

 The direct victims of the CP-EFM hoaxes, birth related care givers, were at first truly exploited. Later, however, the caregivers, motivated by paralyzing fear of CP lawsuits, and ignoring science and medical ethics, sought self-protection in EFM use rather than exposing and extinguishing the hoaxes. 4, 6, 9 Thus, the CP-EFM hoaxes continue flourishing today, giving CP victims and their families false information and false hope,4, 7, 9 costing society huge amounts of money 2, 4, 6, 7, 10 misdirected to CP litigation instead of CP research, and CP care, costing physicians their ethical integrity, 9 and costing mothers and children permanent physical and potential future harms from unnecessary EFM induced cesarean sections (C-sections). 2, 4, 7, 12-16

CP litigation's direct costs to society are measured in the billions, 2-6 the majority paid to trial lawyers and their courtroom experts and a comparative smaller amount to the less than 10% of CP families who access the tort system. 6, 11 Added to these direct costs are billions more in defensive medicine costs, 10, 15, 18, 19 ----altering the standard of care to accommodate physicians' lawsuit fears and administering prophylactic medical procedures solely to deter trial lawyers and lawsuits—which is birth care givers' response to allegations they cause CP. 4, 6, 9, 12

And while money in a limited resource endeavor like health care is of notable concern, the billions lost to the hoaxes are insignificant when compared to physicians' dishonoring the ethical hallmarks of autonomy-informed consent, non-maleficence and beneficence, 9, 12, 16 and causing harm to mothers and babies by the continued knowing use of a scientifically destitute machine disguised as a safety device primarily for their own protection from lawsuits. 2, 4, 7, 9-12

The trial lawyers' major instrument of deception has been and is EFM, 4, 7, 9, 10-12 an ironic touch since EFM is a direct descendant of medicine's most recognized symbol, the stethoscope, 11 a symbol of physicians' dedication to healing, not harm; ethical integrity, not self-protection; and medicine's firm reliance on science not myths.

Banishing these hoaxes is an uncomplicated endeavor because the research and literature conclusively proving physician related birth events rarely cause CP and EFM does not predict or prevent CP, has existed for decades and has recently been accumulating at light speed. 2, 6, 10, 17, 20-27 But, while physicians have long had the ability to dispel the CP-EFM hoax they have mysteriously refused to use it. 4, 11, 16 And that is one of the questions answered herein: Why not? A second question is also answered. How can CP-EFM litigation be stopped today? What effort will it take to see the beginning of the end of CP-EFM litigation?

The end of CP-EFM would not mean an end to EFM, which is a labor-saving device necessary to current day medicalized hospital obstetrics. It would require, however, physician honesty, as expectant mothers would finally have to be told the truth about EFM's limitations, 4, 9, 12 that it does not predict or prevent CP or other neurologic maladies, and that EFM interpretation is more like a Ouija board than science. In other words, mothers will have to be given informed consent and the autonomy to choose how her labor is managed. But isn't that what bioethics has promised to all? 9, 28

**MYTHS BEGET A HOAX**

CP has always bedeviled the world. 10, 29, 30 It’s supposed causes were steeped in myths ranging from the evil eye, God's wrath, intercourse between witch and devil, to difficult teething. 10, 29, 30

Nascent neurologic explanation for what became known as CP began to become defined and accepted at least as early as the 1860’s.10 CP became associated with asphyxia neonatorum—a lack of oxygen during labor and delivery.10, 29-31 This seemingly common-sense theory was coupled with another theory, arising shortly after the stethoscope was first used to listen to the fetal heart beats, that changes in fetal heart rate in labor is a reflection of fetal oxygenation status. 11, 31 These theories led to the idea that monitoring the fetal heart rate could reliably detect a period of time before neurologic damage occurred and thus intervening in labor if the heart rate exceeded the supposed "normal values" would rescue infants from CP and all other birth related neurologic maladies including death, and cognitive impairment. 10, 11, 29-31

 These merged theories, and other thoughts about fetal acidosis, APGAR scores, umbilical cord blood gases, and further thoughts about neurodevelopmental prognostication,10 all scientifically unverified but accepted as true, 2, 7, 10-12  became the foundation for EFM technology which appeared in the late 1960s in labor rooms and shortly thereafter in courtrooms,11, 12 at a time when medical technology and medical machines were accepted by physicians and the lay public alike as necessary and essential in all aspects of medicine including the increasingly medicalized event--- a normal birth. 4, 10, 12, 28, 30 EFM was introduced into clinical medicine and was hailed by physicians as *deus ex machina*,32 a miracle machine that would reduce by half CP, epilepsy, and intellectual disability,33 save as many as 20,000 babies every year, reducing the number of injured babies by 50%. 34-36 Almost overnight, EFM became the standard of care in hospitals around the world. And not even one randomized EFM clinical trial had yet occurred. 2, 4, 7, 10-12, 34-36

And not long after obstetricians heralded EFM as the predictor of birth asphyxia and C-sections as the savior of birth injured babies, trial lawyers began asking obstetricians in CP lawsuits why a particular baby had CP in spite of the marvelous machine that predicted asphyxia. 4, 7, 9-12 The question why a C-section was not used to save a baby from lifelong neurologic devastation became the focal point of every CP lawsuit.4, 7, 9-12 And a cottage industry was born (no pun intended) that has blossomed into a worldwide crisis today. 1-6

Now, fifty years after EFM became the obstetrical standard of care in virtually every industrialized country in the world, and after CP lawsuits have been common place for almost the same amount of time, independent researchers around the world have proven the medical theories supporting EFM use and CP causation to be not much more than a scientific hoax. 1-4, 9-12, 20-27, 34-42 In essence, if ‘EFM predicts asphyxia and C-sections prevents CP’ had been a space rocket, humankind would never have walked on the moon much less gotten off the ground.

So, the question is, how, in the second decade of the twenty-first century, a century of advanced medical and scientific enlightenment, can a proven hoax like EFM survive in the world's labor rooms and courtrooms?

**UNDUE INFLUENCE**

Trial lawyers, the tort system, and medical malpractice lawsuits have been around for centuries.43 And while doctors even in the nineteenth century complained that they were being persecuted by trial lawyers,the reality was that medical malpractice suits were relatively uncommon as compared to other types of personal injury lawsuits. 43

Uncommon that is until the 1950s. 10, 11, 43 As a result of numerous sociological attitudinal changes following World War Il including massive court made tort liability expansion and liberalized evidence law,43 changes in society's injury responsibility attitude, expanded lawyer advertising, and the death of medical paternalism,4, 9, 11 the frequency and severity of physician malpractice lawsuits suddenly, rapidly accelerated. 4, 10, 11 Claims and suits against physicians achieved unprecedented levels as did the injury awards, precipitating the first of numerous insurance availability crises beginning in the early 1970s. 10, 11

Following the first physician insurance crisis, demands for national and state malpractice reforms and no-fault schemes have continually permeated the medical literature mostly to no avail. 4, 6, 11, 44-45 Rather than meaningful reforms, the medical tort system continues to expand with increasing case numbers, verdicts, and settlements. The primary reason for the expanding malpractice scene and the failure of tort reform in most of the world's countries is trial lawyers.

 Trial lawyers have accumulated vast wealth from the modern tort contingent fee system and have used that wealth partly to successfully block medical malpractice reforms.46, 47 This success has included maintaining the lucrative EFM-birth asphyxia-CP cases within the high verdict value fault finding systems of most countries.4, 6, 7, 10 But, CP cases are of relative recent origin. Before EFM, birth asphyxia was an explanation not an indictment.

# **THEORIES BECOME ACCUSATIONS**

Before the 1970s, CP lawsuits were rare to non-existent. Birth asphyxia as CP's cause was accepted as a scientific fact primarily because there was no obstetrical blame associated with a CP child's birth. 10, 29, 30 Birth asphyxia was the explanation doctors gave to heartbroken parents. 11 Additionally, auscultation by the human ear, the only fetal heart monitoring method available, left no trace and an obstetrician's memory that the fetal heart tones were normal was not subject to dispute even by lawyers’ cross examination. 11

But EFM left a trail. A permanent paper trail. A trail that could be preserved. And then re-analyzed in a courtroom years, even decades after birth, by hired EFM courtroom “experts” 48---medical witnesses using the century old unproven asphyxia theory, who were willing to swear that the baby would have been neurologically normal if only the obstetrician, midwife, or nurses, or all of them, had recognized the precise moment on the EFM strip that the baby suffered the birth asphyxia that caused the CP. 11

While the very first EFM verdict is unknown, 49 what is known is that by the early 1980s, clever trial lawyers, taking advantage of the EFM-CP myths, were aware of EFM's million-dollar potential, had cultivated their courtroom EFM “experts,” 48 and began to profit from what became common high stake, high verdict, lawsuits that routinely were part of the annual list of top trial verdicts. 50, 51

Trial lawyers' CP-EFM reasoning was simple: EFM detected asphyxia; there was a limited window of opportunity after asphyxia was detected when the fetus could be quickly delivered by C-section or instrumented delivery and saved from irreversible CP and brain damage. Thus, if a child had CP, or any other neurologic abnormality, someone must have been inattentive of the machine’s signals or ignorant of what the machine was revealing. Either way, doctors and hospitals would have to pay for the inexcusable lifelong neurologic devastation. Usually unmentioned, was the fact that the lawyer would first be paid 40-50% of the money received.

This trial lawyer reasoning was not original. It was based on the "facts" that EFM inventors 33, 52 and their disciples published in various books and journal articles proclaiming EFM theory as scientific fact. 33, 52-54 In a short time, more and more EFM “experts” emerged publishing "peer reviewed" books and articles validating EFM science and how quick delivery when asphyxia was detected prevented CP.11, 22, 34, 35

 And in courtrooms around the world paid "courtroom experts" relying on the articles and books, many of which they had written, 34, 35 delivered a neurologically perfect infant most often by C-section, something the defendants could have done but for the defendants' ignorance or inattention. These experts delivered thousands of CP babies by C-section in the courtroom, each one neurologically perfect, and neither mother nor baby ever had even one complication.

Ironically, the EFM inventors fooled not only the real-world caregivers but they fooled the trial lawyers and their courtroom experts as well. And the inventors profited handsomely from the hoax.

# **THE MACHINE THAT GOES "PING"** 55

When EFM was introduced into clinical medicine, Corometric Medical Systems was one of the first companies manufacturing, promoting, and selling EFM machines. Hospitals worldwide enthusiastically embraced EFM with its inventors' promise of near perfect obstetrical outcomes. 11, 12, 34, 35 With its lights, dials, digital readouts, and reams of graft paper that silently but instantaneously and permanently recorded heretofore unobtainable data from the entire birth process no matter how long the labor, EFM was finally ushering obstetrics into the medical technology age, a frenzy that had overtaken almost all of medicine. EFM gave obstetrics a modern aura of technologic invincibility. Most obstetricians and hospital administrators cared little that EFM was based not on clinical trials and science but on assumptions, anecdotes, and personal observations, tainted by undisclosed avarice. 34, 35, 56, 57,

Corometric was founded by Edward Hon, Yale physician and engineer who later joined University of Southern California. Hon was one of the primary EFM inventors. Hon and his colleagues who originally tested the machine, conducted the "studies," and wrote the favorable journal articles used to convince hospitals to purchase the machines, were undisclosed Corometric Board of Director members, stockholders, investors, and patent holders.34, 35, 56, 57 When Hon moved his research to USC, he and his colleagues continued publishing favorable EFM articles and sales continued increasing at a phenomenal rate. Hon and colleagues' studies were so impressive NIH funded one million tax dollars of evaluative research at USC between 1971 and 1975. 34, 35  In a 1969 Life Magazine article Hon claimed that 90% of all fetal distress was caused by umbilical cord compression and, therefore, EFM monitoring would save 20,000 babies per year and reduce the number of injured babies by 50%. 34

 What was not published was the fact that Corometric was also a prime funding source for Hon's research and writing as well as the favorable research and writing of his colleagues who were undisclosed Corometric stockholders, investors, and patent owners. 34, 35 By 1975 EFM was so entrenched in clinical practice and accepted as a necessary safety device for all labors, that USC rejected a proposed EFM randomized controlled trial (RCT) on the ground that EFM was necessary for a safe birth and withholding EFM from the control group would be unethical.12, 34, 35 Corometric’s EFM sales continued to be spectacular, and when Corometric was eventually sold, Hon and his insiders, including prominent Yale and Harvard physicians, held more than half the stock. 34, 35

Ironically, despite millions of public and undisclosed Corometric dollars provided for EFM research, not even one RCT had been accomplished by the EFM inventors or their acolytes. 10, 12, 34, 35 When the first RCT was published in 1976 by a Corometric outsider and other outsiders began to notice that EFM's foundational principles were weak and its use caused more harm than good, the obstetrical community reacted with caustic outrage and ad hominem attacks on the messengers. 10, 34, 35

# **SHOOTING THE MESSENGERS** 56

 Before 1976 Albert Haverkamp, a Denver obstetrician, readily embraced EFM. 34, 35 He became concerned that EFM's usefulness was not apprenticed by some obstetricians and by many laboring women who were rejecting EFM. So Haverkamp began the first RCT to prove EFM's efficacy to the skeptics.34, 35 He was surprised by his results, however. Comparing almost 500 patients monitored with EFM and auscultation, he found no EFM advantage. There was, however, a decided EFM negative: EFM C-sections were 16.5% but only 6.8% for auscultation. 34, 35, 58

Haverkamp then had an even bigger surprise. His study, presented at a medical conference just prior to its 1976 publication, was immediately attacked as outdated by a panel of EFM "experts" who contended that all women in labor must be monitored with EFM. 34, 35

Shortly after Haverkamp’s antagonistic reception, two epidemiologists from the Department of Health Education and Welfare began a review of 600 EFM published articles and books in order to assess EFM's efficacy, safety, and costs, as well as the social implications of using technology in childbirth. 34, 35 In a first ever systematic review of a healthcare technology, 35 they concluded there was little if any benefit to widespread EFM use but there were substantial risks from the significantly increased C-sections induced by EFM and substantial added annual costs related to the additional C-sections, suggesting EFM may be doing more harm than good.59 The formal report was published as a medical journal article in 1979. 60 The obstetrical community outrage was instantaneous. 34, 35

The vehementattacks on the report and the authors personally by prominent and unknown obstetricians were like those on Haverkamp and were relentless. 35 Ironically, the attackers had no RCTs with which to counter the evidenced based EFM criticisms. They resorted to impressions and personal experience as better evidence than RCTs. 34, 35

 These early attacks portended the arguments obstetricians would continually make for the next four decades. As the scientific evidence against asphyxia as a CP cause and against EFM as the predictor of CP and C-sections as preventing CP, EFM proponents ignored facts, science, medicine, RCTs, and bioethics, and simply continued in the Hippocratic paternalism posture they had known for so long, 9 insisting EFM was a devise necessary for safe birth. Although the uncontradicted evidence said otherwise, common sense and rationality became obstetricians' natural enemies when it came to EFM-CP.

## **HEAR NO EVIL, SEE NO EVIL**

For Every Complex Problem There Is A Solution That Is Simple, Neat, And Wrong.

H.L. Mencken

From the late 1960s until today scientific research throughout the industrialized world has time and time again proven that physicians and nurses rarely cause CP 2-4, 7, 17, 22-27 and EFM is unscientific, 1, 2, 4, 7, 10-12, 17, 20-23 not the God in a machine 32 that obstetricians hoped for. In fact, very recently the very foundation of EFM---the cause of and meaning of fetal heart decelerations---has been proven to be wrong. 61, 62

Scientific proof discrediting the EFM-CP hoaxes slowly accumulated in every decade since 1960. This proof was published in multiple government, university, and private sponsored studies, twelve RCTs, dozens of meta analyses, Cochran Collaboration Reviews, ACOG-AAP Task Force Reports, U.S. Preventive Task Force Reports, editorials, and comments, in virtually every major medical journal in the world. 4, 7, 9, 11, 12, 16, 31, 46 The evidence has been readily accessible to every birth healthcare giver, and every lawyer, as well as the public and expectant mothers through newspaper articles, magazine articles, books, and birth related organizations. 12, 28, 56, 57, 63-66

Yet, during this same time span, CP litigation exploded in volume and expense and physicians, nurses, midwives, and hospitals were routinely held liable in court cases of causing CP. 2, 4, 7, 10-12 And the prime instrument of blame was the EFM machine. 2, 4, 7, 10-12 Ironically, physicians' EFM use along with EFM induced C-sections also increased each year along with hospitals' investment in more and more EFM monitoring equipment until worldwide EFM was used to monitor almost every birth in the industrialized world. 2, 4, 7, 10-12

At the same time mothers were not given any choice in EFM monitoring or informed consent, nor were told that EFM was doing more harm than good or that EFM was unnecessary for a safe birth. 9, 12, 16, 46, 63-66 This silence on the part of obstetricians was occurring despite pleas by some physicians, professional organizations, and even private citizens for obstetricians to follow bioethical autonomy and allow mothers an informed choice for fetal monitoring.9, 12, 16, 35, 59, 60, 63-66 Strangely, medical ethicists remained completely silent. 9

The question that should trouble everyone living in enlightened modern world societies where bioethics demands respect for individual choice and where science permeates our lives and informs our actions, is how EFM, a documented unscientific machine based on little more than birth myths and spectral evidence, that predicts nothing and prevents little, was allowed by physicians and judges to dominate obstetrical decisions, some life and death, as well as judicial decisions for the last half century?

**AN AGE OF UNREASON?**

'Sometimes people don't want to hear the truth because they don't want their illusions destroyed." Friedrich Nietzsche

"No one gets sued for doing a C-section. . . They do get sued . . . for *not* intervening." 64 So goes the last half century thought process of the vast majority of obstetricians, a mantra passed on to each generation. 7, 19

And therein lies the answer to the question why EFM, despite evidence of uselessness, dominated labor-delivery rooms and court decisions for fifty years and why women and babies have been at risk for serious harms from unnecessary C-sections: obstetricians. Obstetricians and their irrational, incoherent, muddled, disjointed fear of CP lawsuits. 4, 11, 12, 19, 28,

Physicians often blame the court system, trial lawyers and their "expert witnesses" for the dramatic high dollar verdicts and settlements that have become so commonplace in medicine and pharmaceuticals in the last half century. 11, 43 And they certainly deserve most of the blame for what many believe is a litigation system that is not only more like a government sponsored lottery but is also illogical, unpredictable, cumbersome, and slow and in desperate need of reform especially when it comes to complex medically related topics 11, 43, 67 But when it comes to CP-EFM litigation, healthcare providers have no one but themselves to blame for the fifty-year litigation crisis.

 The golden age of trial lawyers and their paid experts began in the 1960s as courts liberalized legal liability theories adding heretofore unrecognized recovery theories against myriad defendants including healthcare providers, vaccine makers, and manufactures of drugs and medical equipment. 11, 43 Liberalized evidence rules followed allowing trial lawyer paid experts to express opinions on ultimate issues---"say whatever you want opinions"---- like causation. Opinions based on little more than personal beliefs, personal experiments and theories, many unpublished and unvetted by peer review. 43

Billions were paid to "victims" and mostly their lawyers for multiple dozens of supposedly defective, hurtful medical modalities:68 DPT vaccines,Bendectin, breast implants, thimerosal in vaccines, MMR causing autism. 69-73 What most of these had in common was that five, ten, fifteen years later real science caught up with the paid experts proving that the sworn, paid for causation testimony was not only unscientific but dead wrong. 68-73 By then, however, the damage was done.

CP-EFM litigation began in exactly the same way. Using the theories of the EFM inventors, the paid experts swore in courtrooms around the world that EFM predicted asphyxia and C-sections prevented CP. In a short time, however, science began to catch up and published research was proving CP was rarely caused by birth care providers and EFM was not predicting or preventing CP.

The difference between DPT, Bendectin, breast implants, etc. was that obstetricians rather than embracing the exonerating research vehemently rejected it in favor of their original illusion that CP was primarily caused by asphyxia and EFM was in fact the *deus ex machina* that recused babies in distress. Fear of lawsuit originally drove EFM false positive mandated C-sections and continues driving obstetrical C-section decisions fifty years later. Physicians are knowingly subjecting mother and babies to current and future risks connected to C-sections without informed consent despite a promise to do no harm, all because they fear lawsuits more than they respect patients' autonomy or their own ethics.

# **UNRAVELING THE GORDIAN KNOT**

After rejecting CP-EFM science for fifty years can birth related caregivers undo their self-made CP-EFM litigation Gordian Knot? The answer is yes. The solution is simple. It is the collective will that is problematic. Caregiver voices have called attention to the EFM hoax suggesting that the powers that be do something about the litigation problem 2-4, 5-7, 10-12, 38 but the leaders of the world’s birth related professional organizations (BRPO) have apparently been uninterested in solutions, otherwise something would have been done before now.

All that is required is for BRPO to change the standard of care.4, 7 Formally declare that EFM is unreliable as currently used, does not predict or prevent CP, and is not the standard of care for normal labor. In turn, such a declaration will impact litigation because physicians must generally testify to a standard of care in a lawsuit. It is the physician that set the SOC in the courtroom not judges or lawyers. 4, 7, 43

In fact, some in the obstetrical world have already suggested EFM standard of care be changed for low risk pregnancies. In the forefront has been UK’s National Institute for Health and Care Excellence (NICE). Since 2001 NICE has recommended EFM not be used in normal pregnancies.75 ACOG recently made a similar recommendation.76 ACOGfinally formally recognized EFM has not reduced CP or perinatal death and has increased C-sections. ACOG now recommends women with low risk pregnancies be given an informed choice between EFM or intermittent auscultation. 76

But what is needed to change the standard of care worldwide and end EFM-CP litigation is not piecemeal NICE-ACOG recommendations that physicians do not follow. Rather what is needed is an authoritative medical body, preferably an International Task Force, writing in declarative sentences, to author a clear, unambiguous, coherent, plainly worded statement, understandable to judges, jurors, other lay persons, as well as expectant mothers, summarizing the current EFM-CP medical scientific evidence proving CP is not solely caused by birth asphyxia and that EFM is unreliable and has never been able to and cannot today predict or prevent CP or any other neurologic malady.

An authoritative statement would enable defendants to bring Daubert junk science challenges 4, 7, 43 against trial lawyers' same few EFM courtroom experts who continue to testify EFM predicts and prevents CP.48 EFM junk science challenges are not routine today because there are no specific, comprehensive, unambiguous, evidence based CP-EFM statements analyzing contemporary clinical CP-EFM evidence and weeding out the stale EFM literature and theories of the past fifty years which are inappropriately relied upon by trial lawyer experts to perpetuate the hoax. Challenging EFM courtroom experts would mean the beginning of the end of CP-EFM litigation. 7, 11, 43

If the EFM standard of care was changed, EFM can still be used in labor-delivery rooms. To do so, however, mothers will have to be given true informed consent and be told EFM is not a safety device but a labor-saving device whose interpretation is art not science and that EFM may help the physician make choices, but the choices are not scientifically verified. This is what Banta and Thacker concluded in 1978-1979. 59, 60 It is still true today. And mothers deserve to be told the truth. Most will choose EFM if their doctors believe it is helpful, but the choice belongs to mothers not physicians. 9

# **CONCLUSION**

EFM began as a noble attempt to conquer a centuries old plague---cerebral palsy----but has been turned into a nightmare for birth caregivers and increased the chances that women and babies may experience harm from what should be a happy experience. While trial lawyers certainly deserve the blame for starting, perpetuating, and profiting from the EFM-CP hoax, physicians share equally in the blame for these half century old hoaxes that have become a shameful stain on an honorable profession.77 Physicians’ vincible ignorance in this continuing hoax is apparent for all to see. But to paraphrase Jeremiah, there are none so blind as those who will not see.

The solution to the current EFM-CP conundrum has been and still is a simple one and is available today. Physicians can give real meaning to the principle of autonomy in childbirth by simply changing the EFM standard of care. It can be done and it should be done now. It merely takes determination to acknowledge the obvious---EFM harms mothers and babies---and acknowledge that medicine’s first obligation is to do no harm.

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