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5 6 7 8	THE CASSIDY LAW FIRM Harold J. Cassidy* (NJ SBN: 011831975) Email: hjc@haroldcassidy.com 750 Broad Street, Suite 3 Shrewsbury, NJ 07702 Telephone: (732) 747-3999 Fax: (732) 747-3944 *Admitted Pro Hac Vice	·
10 11	Attorneys for Plaintiff, MELISSA KAY COOK Individually and MELISSA KAY COOK as Guardian ad Litem of Baby A, Baby B and Baby C	
12	UNITED STATES D	ISTRICT COURT
13	CENTRAL DISTRICT OF CALIFORNIA	
14	LOS ANGELES DIVISION	
15 16 17	MELISSA KAY COOK Individually and MELISSA KAY COOK as Guardian ad Litem of Baby A, Baby B, and Baby C,  Plaintiffs,	Case No. 2:16-cv-00742 ODW(AFMx)  DECLARATION OF ALMA L. GOLDEN, M.D., F.A.A.P. PURSUANT TO 28 U.S.C. §1746
18	vs.	
19 20	EDMUND G. BROWN, JR., Governor of the State of California, et al.,	(Fed. R. Evid. 201)
21	Defendants.	Date: May 23, 2016 Time: 1:30 p.m.
22	•	Courtroom: 11 Judge: Hon. Otis D. Wright, II Trial Date: None Set
23		Action Filed: 2/2/16
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25	AIMAI GOIDEN MD FAAF	o., being of full age, deposes and says:
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Professor of Pediatrics at Texas A&M Health Science Center where I trained medical students and residents regarding child development and child care in a family-centered system from 2006-2015. I also served as Vice Chair for Community Initiatives at McLane Children's Hospital, Baylor Scott and White Health through which I coordinated community health education and implemented health interventions from 2009-2015. I served as the faculty representative to the Curriculum Committee for the Texas A&M Health Science Center in 2014-2015 and as a member of the Pediatric Operations Committee overseeing strategic operations and planning between 2008-2014. As Associate Professor of Pediatrics and Vice Chair of the Pediatric Department, I was responsible for policy, development, and implementation for collaboration between Specialty and General Pediatrics for indigent care and trained medical students and resident physicians on Adolescent Health, Patient Education, Public Health and Policy, and Clinical Intervention Methods. I previously served as the Director of Pediatrics, Scott and White Round Rock Health System from 2006-2008. Throughout my career, I have written about, provided training, and held administrative and policy roles in the areas of Pediatrics, Family Medicine, Obstetrics and Gynecology, Ethics, Public Health, and Adolescent Communication. My Curriculum Vitae is attached to this Declaration and marked as Exhibit A.

2. I obtained my M.D. from University of Texas Medical Branch (UTMB) in 1975. Following my internship, I cared for my family and served my four children as my primary responsibility from 1977 to 1986. I completed my post-doctoral training in Pediatrics in 1988 and was Board Certified in Pediatrics in 1990. From 1988-1991, I was a general pediatrician in private practice in Alvin, Texas while serving as a teaching physician with UTMB. I then accepted the position of Director of Pediatric Services for the Regional Maternal Child Health Program of the Department of Obstetrics and Gynecology at UTMB from 1991-2000. In that role as Clinical Assistant Professor of Pediatrics, I strategically

3. During this same time period (1997-2002), I founded and served as Medical Director of the SAGE Advice Council, which offered health education training programs for health professionals. SAGE provided presentations on adolescent risk behaviors to physicians, nurses, social workers, and educators. The focus of SAGE was to equip youth professionals with the knowledge and skills to both interview and intervene with youth and family members to improve health choices and decrease risk behaviors, especially the risks of youth drugs, alcohol, violence and sexual involvement. From 1999-2002, I served as the first Editor-In-Chief of a new multidisciplinary journal regarding adolescent risk behaviors and interventions: Adolescent and Family Health, associated with the Institute for Youth Development. The journal published original research regarding teen risks, health interventions and youth and family outcomes.

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- In 2002, I was appointed by President George W. Bush to be the 4. Deputy Assistant Secretary for Population Affairs at the U.S. Department of Health and Human Services. In that role, I was the senior executive administrator for three major programs: the nation's Title X (Family Planning) program, Title XX (Adolescent Family Life) programs, and the Embryo Adoption Awareness Program. The Title X (Family Planning) program funded \$289 million of grants to 89 state and non-profit entities which supported family planning services in 4,600 clinics, serving approximately 5 million clients annually. The Title XX (Adolescent Family Life) program oversaw \$30 million of grants to 104 community agencies which provided abstinence education and care for pregnant and parenting teens. The Embryo Adoption Awareness Program addressed the approximately 400,000 embryos which were unused by biological parents and potentially available for adoption. The complex ethical, biological and legal environment of these embryos demonstrated the challenges of fertility treatments and the need for compassionate adoption by loving families. One million dollars in funds were delegated through competitive grants to assist fertility and adoption organizations to improve awareness and adoption of stored embryos. As Deputy Assistant Secretary for Population Affairs, I also served as a policy advisor to the White House Domestic Policy Council, the Secretary of Health, and the Department of State on issues relating to reproductive health and family planning, HIV prevention, teen pregnancy, and statutory rape. In that role, I also provided policy advice to the Department of Justice on matters of sexual assault, exploitation, rape, and coercion of young teens by older individuals.
- 5. For over 25 years, in addition to my practice of pediatrics and faculty teaching responsibilities, I have made scores of presentations to health educators, school teachers and coaches, social work professionals, nurses and community groups on topics such as risk-avoidance programming, HIV prevention, public health approaches, family-focused health care, and teen interview and intervention

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techniques. In 2005-2007 I conducted a series of lectures at the University of Beijing, School of Public Health and other agencies in China regarding adolescent behavioral interventions and public health. In 2010, in collaboration with the Centers for Disease Control and Center for Relationship Education, I served as primary author of the SMARTool, a reference source for assessing effective interventions for adolescent risk avoidance programs.

Throughout my career, I have also served in numerous capacities on Committees and Task Forces, as demonstrated by the following emblematic examples. From 1995 – 2001, I contributed to the Work Group on Unintended Pregnancy convened by the National Association of County and City Health Officials. This Work Group reviewed data and outcomes related to teen and unplanned pregnancy and made recommendations in their report, Preparing for Healthy Pregnancy, for which I served as primary author. I served on the American Academy of Pediatrics (AAP) Task Force on the Family from 1998-2003. The Task Force reviewed extensive research and expert opinion regarding the impact of family structure and function on child health. A Task Force Report was released by the AAP in 2004. From 2000-2004 I served as a committee member on the AAP Bright Futures Committee, reviewing recommendations for pediatric screening, patient education, family involvement, anticipatory guidance, and routine well-child care. From 2002 – 2006, I participated in the Health and Human Services Workgroup on Prevention of the Sexual Exploitation of Young Teens reviewing the prevalence of sexual exploitation, the legal framework for protecting young teens, and current and needed programs to reduce exploitation and abuse of youth. In 2012, I participated in a CDC Expert Panel on Youth HIV/STI/Sexual Health Review, collaborating with national leaders regarding programs and interventions pertinent to HIV in youth. For Baylor University School of Education's Dean Advisory Committee, I served as a committee member and consultant from 2012-2015.

7. As demonstrated in the above paragraphs, I have extensive experience in the areas of pediatrics and family planning. In recent years, I withdrew my active participation with the American Academy of Pediatrics.

### INTRODUCTION

- 8. I have been provided with a copy of the California Gestational Surrogacy Statute which enforces certain surrogacy contracts, California Family Code §7962. There are a number of features of this statute pertinent to any discussion about the welfare of children and the mother who gives birth to them: (1) the statute sanctions a plan, which is made in advance of the children being conceived, to deliberately terminate the children's relationship with their only mother; (2) the statute mandates that the children be taken from their mother regardless of whether it is in the children's best interests; the children are taken from the mother regardless of whether the person to whom the children are to be delivered (the "intended parent") is capable of caring for the children; (3) the statute ensures that the children born of the surrogacy arrangement will never have the opportunity to be raised by both natural parents, their mother and their father.
- 9. I have also been provided with a copy of Melissa Cook's First Amended Complaint which makes certain allegations which, if true, are of significance. It is stated that C.M., the intended parent, has admitted that he does not want all three children. He wanted a "selective reduction" and because Melissa refused to have that procedure, he has stated that he intends to give the child up for adoption. What happens to the third child is of critical importance. But I would observe that the surrogacy statute does not anticipate that it is to be used as a method to terminate the relationship between the child and his mother in order to surrender the child to a third party stranger. C.M.'s stated intention, if true, raises other issues for the children in addition to those raised by the surrogacy arrangement authorized by the statute.
  - 10. The First Amended Complaint states that Melissa desires to raise the

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child C.M. does not want. This is an important fact, if true, because, as I discuss below, it would not disrupt the mother-child bond and relationship. The First Amended Complaint also states that there are serious reasons to believe that C.M. cannot care for any of the children, and that Melissa wants to take custody of any or all of the children if the court concludes that to do so is in the children's best interest.

# OPINIONS EXPRESSED AND THE REASONS AND BASIS FOR THEM1

- I. The practices around surrogacy pose risks to the neonates that are lessened by an ongoing relationship with his or her birth mother.
- 11. All of the opinions I express are within a reasonable degree of medical certainty.
- 12. In vitro fertilization and embryo transfer, used in surrogacy, are associated with increased risks to the pregnant woman and baby. Although frequently multiple embryos are implanted in order to increase the likelihood that at least one embryo will implant and survive, even singletons conceived through IVF are at increased risk. Compared with spontaneously conceived singleton neonates, those conceived through in vitro fertilization are more at risk for preterm birth, very low birth weight, and intrauterine growth retardation (McDonald et al, 2009; Sunderam et al, 2015). When multiple embryos implant or implanted embryos split and begin to grow, additional challenges may ensue. Complications of multiple pregnancies include increased risk of perinatal mortality (death), preterm birth, low birth weight, gestational diabetes, fetal growth restriction, pre-eclampsia, placental abruption, and placenta previa (Kamphius et al, 2014; Allen et al, 2006; Sunderam et al, 2015). Prematurity is a common outcome for a pregnancy with multiple infants. Preterm infants often struggle to survive. Respiratory distress, infections, neurologic damage and feeding challenges are generally the most emergent

<sup>&</sup>lt;sup>1</sup> I do not include the full citations in the body of my Declaration. Full citations are found in alphabetical order in the Addendum attached hereto.

concerns noticed by pediatricians and neonatologists (Patel, 2016; Genzel-Boroviczeny O et al, 2006; Stoll et al, 2015). The brain damage of periventricular leukomalacia seen in premature infants is well correlated with the potentially irreparable harm of developmental delays, cerebral palsy and learning difficulties (Linsell et al, 2016; Luu et al, 2009).

- 13. Touch has been studied as a factor in decreasing stress and pain. Premature infants benefit from frequent soothing "tactile kinesthetic stimulation," (or stroking) (Ahmed et al, 2015) and acoustical stimulation with mother's voice (Wirth et al, 2016; Rand et al, 2014). Both intervention reduce heart and respiratory rates, improve weight gain, and diminish irritable motion (Diego et al, 2014; Smith et al, 2013; Piccolini et al, 2014). A mother's touch and voice reduce the stress of prematurity and adverse outcomes, and a calm and comfortable premature infant is less likely to have additional damage to the brain than one who is very stressed.
- 14. The birth mother's breast milk has unique value for the children to whom she gives birth (Montjaux-Regis, 2011; AAP, 2012; Schanler et al, 2005; Rogier et al, 2014). I am advised that C.M. refuses to permit the hospital personnel to use Melissa Cook's breast milk despite the fact she has offered it. It is my understanding that C.M. has declined Melissa's offer, and his attorney has the hospital using donated breast milk from other women. This is not consistent with what is in the best health interest of the children.
- 15. Preterm infants are at great risk for physiological and neurodevelopmental impairments due to prematurity and are also likely to be exposed to high levels of painful stimuli as they are cared for in the neonatal intensive care unit (NICU) (Cruz et al, 2015; Vinall et al, 2014). The American Academy of Pediatrics acknowledges that maternal skin to skin care and breastfeeding are associated with "significantly lower pain responses" compared to other nonpharmacological interventions (AAP Committee on Fetus and Newborn, and Section on Anesthesia and Pain Medicine, 2016). Infants cuddled and nursed

by mother have lower mortality, decreased risk of neonatal sepsis, hypothermia, and increased exclusive breastfeeding, lower mean respiratory rates and pain measures, and hither oxygen saturation (Boundy et al, 2016; Gao et al, 2015). Premature infants are at higher risk of pain and stress in the neonatal period and benefit most from maternal comfort and feeding (Morelius et al, 2015;).

- 16. Because of the medical realities set forth in this section, gestational surrogacy creates unique risks of harm to the children.
- II. The developing fetus depends upon the mother and is shaped by prenatal experiences in ways that profoundly influence his or her life after birth. The relationship between mother and child that begins before birth is unique and important.
- 17. For all children, whether conceived through natural conception or through in vitro fertilization, fetal development is dependent on a human mother in order to grow, develop and begin the process of unique and independent individual. Fetal brain development begins about 16 days after conception as a neural tube. The neural tube gives rise to billions of neurons that form during the first few months of intrauterine life. Coordinated movement begins in the embryo eight weeks after conception. By mid-gestation (20 weeks) in the womb, the fetus has most of the 100 billion neurons that will be used in their adulthood, and the brain has developed basic pathways and systems for breathing, vision, hearing, pain, smell, taste, responding and learning (Stiles et al, 2010). Critical periods during embryonic brain development also form the basis for adult social behavior (Belinson et al, 2016).
- 18. Fetal growth and development is partially guided by genetic blueprints but entirely dependent on maternal factors including nutrition, health status, exercise, rest, and stress (Barua et al, 2015; Marques et al, 2015). The mother's diet must be sufficient in calories, protein, minerals and vitamins to provide the substrate necessary for formation of an infant's immune system and neurologic development (Marques et al, 2013). Deficiencies in certain minerals, such as iodine,

or vitamins, such as the B vitamins, are associated with serious developmental problems like cretinism, or neural tube defects (Salisbury, 2003; IOM, 2003). Even before the infant can respond to taste, noise, pain or movement, the child's well-being and development demands maternal health and intake for growth. The presence of the embryo also affects the mother both hormonally and metabolically, often changing sleep patterns, food preferences, and levels of energy or fatigue. The mother-child interdependency during gestation is formative for the child and profoundly influential for the mother.

- 19. Fetal brain development is sensitive to maternal contentment and hormones of bonding such as oxytocin. Women with higher first trimester plasma levels of oxytocin (known as the "hormone of love and bonding") have improved bonding, caring behaviors and child responsiveness after delivery of the child (Feldman et al, 2007). Higher oxytocin levels are associated with increased behaviors that support strong relationships, care giving and infant safety (Gordon et al, 2010). Infants and mothers benefit from the continuous production of these maternal hormones both before and after birth. Mothers with lower levels of oxytocin during the pregnancy have fewer behaviors related to maternal bonding, for example affection touch, gaze, and vocalizations. These in turn are related to lower levels of infant contentment and bonding (Feldman et al, 2007; Galbally et al, 2011).
- 20. Fetal brain development is also sensitive to maternal stress and the hormones of stress such as cortisol. Research done in animal models demonstrates that the offspring of stressed pregnant animals have more difficulty responding to isolation and novel situations (Rault et al, 2013). When the unborn child is exposed to higher levels of cortisol, a stress hormone from the mother, during pregnancy, infant learning is impaired after birth (Bergman, 2010). Children whose mothers experience significant health or emotional challenges during pregnancy may demonstrate impaired adaptive behaviors after birth. The hormones released during

stressful, traumatic events during pregnancy can disrupt neural circuit function, resulting in permanent changes in the brain, such as loss of neurons, changes in the glial structures, and alteration of neurogenesis (production of new brain cells) (Belinson, 2016). The intrauterine mother-fetal relationship is critical to brain development and brain structure, as well as future cognitive, emotional, and social function.

- 21. Pregnancy plays a vital role in the bonding process between mother and child, and is foundational to the healthy development of the child. It forms the basis of a lifelong loving relationship between a mother and the child. The plan to deprive the child of the benefits that pregnancy affords him or her in the child's future relationships and development is detrimental to the child.
- III. The maternal-child relationship in the earliest days and weeks of life lays the framework for child development and should be maintained whenever possible.
- 22. Pediatricians have watched the early reflexes and responses of both preterm and mature newborns and wondered about the interconnection of nature and nurture. Now the trajectories of brain development are studied using advanced imaging techniques as well as behavioral and anatomical measures. Early developmental research points to sensitive periods for development of patterns of emotional control, hearing, and vision beginning well before birth (Roskams, 2014). Critical developments occur in infancy and early childhood around the areas of peer-social skills, language and habitual ways of responding (Roskams, 2014). Sophisticated neuro-imaging has revealed that genetic patterns and environment influence development. The brain modifies how it uses its genetic code in response to life experiences. Consequently, the shared maternal-fetal relationship is a determinant of actual brain growth and health and has long-lasting effects.
- 23. Infants base their sensory responses on maternal sounds (e.g. heart, voice), maternal actions (activities, patterns of movement, and sleep), smell and

tastes (food and spices preferred). During the second and third trimester of pregnancy, sensory regions of the cerebral cortex begin to function. Hearing, touch, vision, taste and smell develop (Clark-Gambelunghe, 2015). The infant can hear his mother's voice, sleep to her heartbeat, recognize the muffled sounds in the environment, and demonstrate habituation to loud sounds or sudden actions in order to diminish fetal startle responses. Infant hearing is affected by excessive occupational noise their mothers are exposed to while they are pregnant (Selander et al, 2015). Infants have been shown to respond to familiar odors (such as their own amniotic fluid). By the time they are delivered, newborn patterns and responses are attuned to the mother's sounds, actions and routines.

- 24. Consequently, infants experience their mother as their baseline for growth, environment and sensations which establish patterns for the child's behavioral, learning and emotional responses. Due to the intricacies of shared and dependent existence of the mother and child during pregnancy, infants enter the outside world with their mother as their primary and most important relationship. Research on mammals demonstrates that neural mechanisms promote maternal-infant bonding, and this provides the basic neural foundation for other social relationships (Numan et al, 2016). In other words, development and continuation of the maternal-infant bond that begins before birth is critical to the formation of the neural pathways that an individual uses to establish relationships throughout life.
- 25. As a result of their prenatal experiences, infants are most easily comforted by sensations, sounds and smells associated with their home in their mother's womb. Healthy infants cry soon after delivery in response to the abrupt and uncomfortable transition of birth. However, most infants soothe quickly when placed on their mother's chest. The familiarity of the voice and heartbeat and the smell of their mother provides reassurance while facilitating bonding. Skin-to-skin contact immediately after delivery provides the baby with a positive, supportive

Both newborns and mothers benefit from the increased release of oxytocin during labor, birth, post-delivery comforting, and breast-feeding. Oxytocin has important and long-lasting effects on the mother and baby during pregnancy, labor, delivery, breastfeeding, and early parenting (Buckley SJ, 2015). Oxytocin augments uterine contractions which reduced the loss of blood from the placental attachment site, and initiates restoration of muscle tone in the mother's abdomen. Oxytocin also stimulates breast milk production to provide the most nutritionally beneficial food for the newborn. Oxytocin triggers neurochemical changes that are

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- In early infancy, babies have limited capacity to fight off infections 27. based on their own immune system. During pregnancy the mother shares her own antibodies and immune capacity with the infant in her womb. At delivery a healthy newborn is carrying a broad array of immune responses to viral and bacterial infections in his/her mother's environment. If the newborn is placed in an environment dissimilar to the mother, the efficacy of the prenatally acquired antibodies may not be as protective. These protective antibodies allow infants to avoid many early disease threats, including potentially life-threatening infections, while their body begins to establish immune-competency, the ability to make their own antibodies and fight off infection (Oddy, 2001; Hanson, 1998). The breastfed infant has the additional benefit of receiving supplemental immunity through breast milk for the first few months of life, further reducing the disease load from diarrhea, ear infections, and other problems caused by infectious agents (Jackson, Nazar, 2006). That is why Baby A, Baby B and Baby C, in this case, would benefit from using Melissa Cook's breast milk. Using another woman's donated milk is not as beneficial for the children.
- 28. Newborn brains have plasticity, which means they are very impressionable and molded by their environment and experiences. As noted by the National Center for Infants, Toddlers and Families, "this plasticity has both a

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27 28 positive and a negative side. On the positive side, it means that young children's brains are more open to learning and enriching influences. On the negative side, it also means that young children's brains are more vulnerable to developmental problems should their environment prove especially impoverished or un-nurturing" (Zero to Three, 2009). Consequently, our society should positively support maternal and child interaction and bonding in a continuous manner, before birth, through the birth experience and early infancy, and into childhood. The ideal environment for emotional, social and cognitive development includes a stable, caring continuation of the maternal/child interaction. The stability of that relationship minimizes stress due to new environments, sensations, and discomfort, while enabling efficient learning, behaviors and adaptation.

- Breastfeeding is another component of continued maternal/child 29. interaction. Breast milk not only provides basic nutrition in the form of water, proteins, carbohydrates, vitamins and minerals, it is also an avenue for providing protection from infections and allergies (Montjaux-Regis, 2011; AAP, 2012; Schanler et al, 2005; Rogier et al, 2014). A mother's milk also introduces the infant to flavors, spices, and proteins that will be a part of the child's diet as weaning occurs. Mothers also benefit from breastfeeding through strengthening of the uterus and abdominal musculature, and loss of "baby fat" associated with pregnancy. Because of all of these benefits, the American Academy of Pediatrics recommends exclusive breastfeeding for the first six months of life, followed by continued breastfeeding as additional foods are introduced to the baby for a year or longer after birth (AAP, 2012). The continuation of the mother-child relationship in the first days, weeks, and months of life are critical to the health and well-being of the child. Planning to terminate that relationship through surrogacy is a plan to do potential harm to the children.
- IV. The Relationship between Mother and Child Established During Pregnancy Forms the Basis for Life Long Relationships.

- 30. Newborns are not a blank slate of neurological and biological material or just the products of their genetics. Considering the unique interactive and interdependent experience of pregnancy, labor and delivery, infants have been deeply imprinted by their intrauterine environment, their mother's voice and patterns, as well as the emotional and health status of the mother. That environment has provided the foundation for immediate and long-term development.
- 31. The past two decades have produced extensive research on the role of stress in health. It is commonly recognized that infants, both before and after birth, experience stress. Positive stress allows infants to develop coping mechanisms with the support of a nurturing parent who will strengthen the infant's ability to adapt and learn. Toxic stress occurs when an infant is exposed to an adverse situation or experience while deprived of nurturing support. Stressful experiences in the early postnatal period, including separation from the mother through adoptive placement or neonatal hospitalization, have been shown to increase the risk of long term stress and trauma reactions in the child as they grow. These early traumatic reactions change the child's developing neuroendocrine responses to stress (Shonkoff et al, 2012). Positive and sustained interactions with the mother can mediate these negative and stressful experiences since the infant and young child is familiar with his or her mother and easily comforted by her.
- 32. The relationship between mother and child before birth affects the infant once he or she is born. Attachment and bonding are correlated with personality characteristics and capacity to cope with stress. Longitudinal studies have shown that the mother's attachment to her unborn child is correlated with her infant's mood (White and Wilson, 1999). A one-year old child's response to stress is closely linked to secure or insecure attachments that begin during pregnancy (Fonagy at al, 1991).
- 33. Placing the mother under the stress derived from demands over a period of time to abort one of the children, when the mother clearly does not want

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27 28 to do so, has a predictable harmful effect on the development of the child. Thus, the practice of transferring multiple embryos only to demand a "selective reduction" is potentially harmful to all of the children involved.

- 34. As discussed earlier, the relationship between mother and child begins before birth and continues after delivery and, ideally, throughout the child's life. The development of the child's identity is fundamentally shaped by the dyadic relationship between mother and child, and then by the father and other family members as the infant develops in the context of relationships. Loss of the mother is devastating for the developing child. Psychiatrist John Bowlby cared for and studied children in England during WWII, when thousands of infants and children were removed from homes in London to reside in safe houses away from their families. His observations and longitudinal tracking of these children demonstrated the adverse outcomes many of these children experienced. He observed that a child removed from a familiar environment often has diminished capacity to bond securely. His work on attachment has been foundational to improving compassionate care for infants and understanding attachment disorders (Bowlby, 1969; Follan, 2010). Infants depend on a consistent, compassionate care to establish a sense of trust, and to recognize security and safety.
- 35. Secure maternal-child attachments in infancy are associated with multiple shared experiences and exposures that are foundational to future growth, health and learning. The familiar maternal environment of nurturing touch and sounds through parental contact and comforting is associated with optimal brain development and growth after birth. In animal models, increased levels of grooming during the first week of life not only predicted better learning patterns in development, it also predicted improved behavioral patterns in the adulthood of the offspring (Shonkoff et al, 2012). Securely attached infants and toddlers approach new environments with greater confidence. Mary Ainsworth, who worked with John Bowlby and also conducted early research on attachment, described what

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pediatricians and teachers often witness: children who enjoy climbing, tasting, touching, exploring and laughing in new environments are those children who are most confident that their mother was always there for them (Ainsworth and Bell, 1970).

- The disruption of the maternal-infant relationship creates stress and 36. emotional responses that can result in the decreased ability to bond with others, including a serious condition known as reactive attachment disorder (RAD). Although RAD was first described in the WWII children and orphans, significant mental health and socialization problems have been recognized in other children with poor neonatal bonding. Reactive attachment disorder is a disorder characterized by lack of attachment to any specific caregiver at an early age, and it results in the inability of the child to form normal, loving relationships with others (Zeahah, 2015; Smyke, 2015; Folan et al, 2014). A central criterion for RAD in the ICD-10 is "an implicit lack of identifiable, preferred attachment figure" (DSM-IV TR). RAD appears to be most severe in infants and children who are separated early in life from their mothers. Removal of a child from the security and stability of a mother can cause irreparable harm to the child's capacity to form bonds and maintain emotional and social relationships. Many children affected by RAD struggle to establish and maintain relationships throughout life. Treatments of reactive attachment disorder are inconsistent in quality and outcome (Hardy, 2007; Allen, 2011). Children with severe attachment issues and complex trauma histories frequently have difficulties with family and parental relationships, and these psychiatric issues are often devastating to families, with expensive therapies with limited effectiveness (Smyke, 2015; National Child Traumatic Stress Network, 2016; Folan et al, 2014).
- 37. Early childhood trauma and attachment issues are associated with long term, severe adverse outcomes including increased risk of mental health issues (depression, anxiety, panic reactions, and hallucinations), somatic disturbances

(sleep disturbance, obesity, and somatic symptoms), substance use and abuse (smoking, alcoholism, and illicit drug use), sexual risk behaviors (early sexual risk behaviors such as early intercourse, promiscuity, and sexually transmitted infections), memory disturbances, high perceived stress, difficulty controlling anger, and intimate partner violence (Anda et al, 2006; Felitti et al, 1998; Brown et al, 2007; Dube et al, 2006). As the number of early adverse childhood events increase, the adverse outcomes also increase dramatically (Anda et al, 2006; Campbell et al, 2016; Dube et al, 2009). These adverse outcomes directly affect the morbidity and mortality of the children with adverse childhood events, leading to increased interactions with the mental health and criminal justice system over the lifetime of the adult and increased negative health and social outcomes (Zero to Six Collaborative Group, 2010; Campbell et al, 2016; Felitti et al, 1998).

- 38. Behavioral patterns of infancy and childhood are significantly associated with the quality and continuity of the maternal-infant bond. Epigenetics, a rapidly expanding area of research and study, investigates the molecular biology that changes the way that genes are expressed in individuals (Wolffe, 1999; Jablonka, 2002). Throughout life experiences, emotional responses, social relationships and physical health can be changed by the security of continuous relationships (Gunnar et al, 1996). Greater maternal attachment improves the capacity of infants to tolerate vaccine injections and calm themselves following vaccine administration (Walsh et al, 2008). The quality and security of the maternal-infant bond during and after delivery are associated with stress responses later in life. In both animal and human research, offspring that experience secure bonding are more easily comforted and have less exaggerated stress responses both in infancy and in later life (Sullivan et al, 2011).
- 39. Children with stable, strong relationships to their mother are better equipped to manage learning tasks (O'Connor et al, 2012; Landry et al, 2006; Reid et al, 2007). Pediatricians often observe children whose verbal or social skills are

advanced. The vast majority of these precocious children present with comfortable, encouraging mothers. The term "experience expectant" is used to describe the important role of experiences in the early postnatal period. These early interactions help to pattern the brain for learning: stressful and strange "impoverished" experiences reduce the capacity for future development; positive and secure "enriched" environments increase future development (Greenough et al, 1987; Joseph, 1999). Postnatal experiences set the stage for the emergence of normal patterns of neocortical organization. Mothers are the strongest link to secure postnatal experience. Optimal brain maturation and organization relies significantly on the continuation of positive maternal care and interaction (Welch et al, 2015; Greenough et al, 1987; Molet et al, 2016).

- 40. Children living with married, biological parents demonstrate fewer developmental and behavioral problems than children living with single parents or in other family structure arrangements (Laukkanen et al, 2016; Mitchell et al, 2015; Kacenelenbogen et al, 2015). The National Health Information Survey that included findings from over 240,000 families and over 600,000 individuals demonstrated that children from nuclear families were less likely to experience developmental delays, severe emotional and behavioral problems, and attention deficit disorders (Blackwell, 2010). These children also experienced fewer problems with accessing health care services appropriately (Blackwell, 2010). Surrogacy ensures that the children born of the arrangement will never get to know both parents.
- 41. The National Longitudinal Study of Adolescent Health (Add Health) studied over 90,000 teens into adulthood. Hundreds of studies drawn from the data set demonstrate that individuals organize their beliefs about themselves and their behavioral choices based on their connections. As stated on the Add Health website, "Social relationships protect against poor health." Adolescents with strong connections to both parents are less likely to become involved with drugs, tobacco, alcohol, teen pregnancy and violent behaviors and more likely to complete school

and form successful social relationships (Resnick et al, 1997; Neumark-Sztainer et al, 1997; Resnick et al, 2004). Specifically, strong maternal connections are protective for both males and females for refusing drug and alcohol risks, delaying sexual involvement, and improving resiliency. (Resnick et al, 1997). A plan to deprive a child of his mother, a plan made before conception in surrogacy arrangements, is a plan to place children at significant increased risk of negative health behaviors and adverse outcomes.

- demonstrates the strong association of poor adult health outcomes with childhood situations, including single-parent homes, disrupted relationships between parents, and exposure to violence and substance abuse (Felitti et al, 1998; Anda et al, 2006). Kaiser Permanente with the CDC surveyed and tracked 17,000 individuals for over a decade to determine whether experiences in childhood could be linked to health problems in the future. Clear connections have been demonstrated between the difficult childhood experiences and later outcomes such as school failure, alcoholism, depression, obesity, relationship problems (multiple sexual partners, sexually transmitted infections and out-of-wedlock child-bearing), and increased suicidality) (Schilling et al, 2007; Schonkoff, 2012; Anda et al, 2006).
- 43. Long-term cardio-vascular, metabolic and infectious consequences are associated with both the early adverse experiences and the later unhealthy behaviors (Hakulinen et al, 2016; Su et al, 2015; Campbell et al, 2016). Consequently, serious relationship disruptions and family instability are associated with early death in some individuals (Felitti et al, 1998; Campbell et al, 2016). The intentional disruption of the natural maternal-infant bond created during pregnancy, and the long-term removal of siblings from each other and their only known parent, are consistent with the descriptions of an adverse childhood experience. Research now clearly demonstrates that irreparable long-term health consequences are more likely to occur (Schilling et al, 2007; Campbell et al, 2016; Anda et al, 2006; Su et al,

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2015). In contrast to the adverse experience of a fractured family, stable bonds with parents to play a powerful role in protecting and improving personal health, behavioral patterns and long-term mental and physical health outcomes.

- 44. C.M. has been quoted as stating in writing that he intends to surrender at least one of the children for adoption. Adoption introduces additional neurodevelopmental risks secondary to the separation of the child from his or her mother (Nickman et al, 2005; Grotevant et al, 2014). Adoption has been a social practice for much longer than donor-assisted conception and surrogacy. Adoption occurs due to some disruption or difficulty in sustaining the biological relationship between the parent and child. This disruption of their earliest relationships and environment is an early trauma for the infant or child, even if the child is later provided with nurturing and love from their adoptive family. (Grotevant et al, 2014) As adopted children grow up into adolescence and young adulthood, they experience different stages of identity development and often wonder about their biological parents and relatives and the experiences of their biological mother before, during, and after labor and delivery (Smit, 2002). As more adopted children have grown up and discussed their thoughts about their birth parents, it has become more common for adoptees to seek their birth parents in order to understand more about themselves. Adoption practices have become more open, meaning that there are more types of possible contact between the adoptive family, child, and birth family (Grotevant et al, 2008). Adoptees who have increased contact with their birth parents are able to answer important questions about their own history and identity as well as being able to answer medical questions about genetic risks and prenatal and delivery experiences (Child Welfare Information Gateway, 2013).
- 45. The secure adoptive or foster placement of an infant or child is dependent on documentation of the sufficiency of the receiving family. Interviews of prospective parents, neighbors and extended family members, documentation of financial stability, lack of a criminal history, and a home study are components used

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 to assure that the child or children will have the safety and security needed for care (Child Welfare Information Gateway, 2013). Pediatricians, teachers and community members recognize that if a child faces the loss of his birth mother, the receiving home must be capable of extending extraordinary care to compensate for the loss of maternal security and connectivity. Consequently, a child whose maternal bond is broken should be placed in a home prepared for the challenges of a traumatized child and equipped with excellent parenting skills (Nickman et al, 2005; Grotevant et al, 2014; Smyke AT, 2015). If C.M. has compromised parenting skills, he is not an appropriate parent for the children. I understand that the California Gestational Surrogacy Statute does not provide for rigorous scrutiny of the parenting skills of the "intended parent." This deficiency places the children at special risk that their development and general well-being will be compromised.

- 46. Although surrogacy using assistive reproductive technology is a relatively recent practice, there have been some studies of children and families created through surrogacy. One longitudinal study found that surrogate and egg donation families showed less positive mother-child interaction at age 7 than children conceived naturally (Golombock et al, 2011). The researchers reported that difficulties may have been under-reported by the child's mother due to wishing to portray the child positively. The same study found that the children conceived through surrogacy had higher levels of adjustment difficulties than children conceived through gamete donation. The researchers concluded that the "absence of a gestational connection to the mother may be more problematic for children than the absence of a genetic link" (Golombok et al, 2013). A small study of children whose families maintained a relationship with their surrogate mother found that the children felt positively about their surrogate mother and birth (Jadva et al, 2012).
- 47. Adopted children, adolescents, and adults are able to answer important questions about themselves through ongoing relationships with their birth family. This has important considerations for children and young adults conceived through

donor assisted reproductive technologies (Sabatello, 2015). As these children have grown up, there have been more studies that indicate that they would like to have a relationship or knowledge about their biological origins, earliest caregivers, and biological siblings (Crawshaw, 2002; Beeson et al, 2011; Jadva et al, 2010). A representative sample of adults conceived using a sperm donor found that they often described anxieties regarding identity and "circumstances of my conception" (Marquardt et al, 2010). These young adults frequently expressed concern or loss about unknown family members, missing siblings, or medical issues of their biologic relatives (Marquadt et al, 2010; Jadva et al, 2010). These questions are more easily answered in the context of an ongoing relationship with a birth mother. Many researchers and ethicists have concluded that disclosing conception by donor gametes to the children should not be optional (Feast, 2003; McGee et al, 2001).

- 48. Infants from a multiple pregnancy have known the companionship of their siblings since before their birth. A study looked at the safety and benefits of allowing twins to "co-bed" after delivery and determined that "co-bedding promotes self-regulation and sleep and decreases crying with apparent increased risk" (Hayward et al, 2015). Children from high-order pregnancies benefit from maintaining their sibling relationship, even in the newborn nursery. Children and young adults who were adopted or conceived through assistive reproductive technologies often wonder about their siblings and families of origin (Jadva et al, 2010; Jadva et al, 2009; Crawshaw, 2002).
- 49. Maternal roles are not limited to care of an infant, child or teen. The influence of a mother continues into adulthood. First-time parents often depend on both their recollection of maternal involvement and the active presence of a caring grandmother to model and support infant care. Adult offspring often trust the experience and encouragement of their own mother rather than the "official" directives of educators or health professionals. The healthy, secure attachment of a mother and child extends to the following generations of grandchildren and great-

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grandchildren. The continuity of relationships between children and their families has effects on the child, adult, and their future dependents. The ripple effects of disruption of maternal-infant bonding affect not only the health and well-being of the child but the adult they become, their children, and ultimately all of society. It is critically important to protect and promote these relationships.

- 50. For all of these reasons, surrogacy arrangements fail to address the basic health, development and psychosocial needs of an infant and are therefore intrinsically detrimental to the well-being of children. To institute a plan, made before the children are conceived, to separate a child from the mother who carried and nurtured her though pregnancy and delivery, is a plan to subject the child to unnecessary and grave risks. It is also my opinion, within reasonable medical certainty, that the woman who acts as a gestational carrier is placed at significant risk for psychological harm, including depression, anxiety, low self-esteem and trauma due to the separation from the children she bore.
- addressed by adhering blindly to the mandates of the statute. The statute, if enforced, violates the children's material needs to maintain their relationship with the mother who carried them. The fact that the statute fails to address basic child and family development and ignores the best interests of the children, results in likely harm for the three children in this case. Baby A, Baby B, and Baby C confronted with great potential losses including loss of their only known parent, loss of their full sibling relationships, and potential loss of hope for a stable, safe parental home. Custody of the infants should be based on what is best for these

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new individuals, upon the preponderance of research regarding maternal and child bonding, and on the relative ability of Melissa Cook and C.M. to properly raise the children. The children's relationship their mother, Melissa Cook, should not be terminated, especially in order for them to be given to a stranger through an adoption. In addition, their relationship with Melissa Cook certainly should not be terminated if C.M. is not capable of providing a nurturing, safe, stable home to raise the children or is unwilling to do so.

Pursuant to 28 U.S.C.1746, I certify under penalty of perjury that the foregoing is true and correct.

Dated:

March 3, 2016

ALMA L. GOLDEN, M.D., F.A.A.P.

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28 |

# EXHIBIT A C.V. of Alma L. Golden, M.D., F.A.A.P.

#### **CURRICULUM VITAE**

NAME: Alma L. Crumm Golden, M.D., F.A.A.P.

DATE: February 25, 2016

### PRESENT POSITION AND ADDRESS:

10/2006 to Present: Pediatrician, Baylor Scott and White Hospital, Temple, Texas
Vice Chair for Community Initiatives, McLane Children's Hospital
Associate Professor of Pediatrics

# Current responsibilities:

- Development and strategic planning for pediatric services
- Faculty representative to the Curriculum Committee for Texas A&M Health Science Center
- Director of the Institute for Spiritual Care and Wellness addressing relationship and spiritual well-being impacts on health
- Lecturer and small group facilitator for Medical, Nursing and Chaplaincy Students on topics of Medical Ethics, Adolescent Health, Public Health Strategies, Health Policy
- Editor for "Child Health Matters", Pediatric and Family Health newspaper column
- Member and Liaison to Baylor University School of Education Dean's Advisory Council
- Review and recommendations regarding potential pediatric care sites and selection of pediatricians
- Pastoral Advisory Council member for Chaplaincy services in Baylor Scott and White
- Facilitating consultant (coordinating with Baylor First Lady Alice Starr) for establishment of the Baylor Center for Developmental Disabilities in collaboration with McLane Children's Hospital
- Liaison to regional schools, universities, municipalities and agencies regarding child health services
- Policy, development, and implementation for collaborations regarding Specialty and General Pediatrics, indigent care
- Training responsibilities with resident physicians on issues of Adolescent Health, Patient Education, Clinical Intervention Methods
- Member of Pediatric Operations Committee
- Consultant on domestic and international public health issues

### Previous responsibilities: 9/2006-1/2009

- Director of Pediatrics, Scott and White Round Rock
- General pediatrics, neonatal care, urgent care and coordinator for pediatric services
- Founding chair of pediatric quality committee, Round Rock
- Liaison between Scott and White Temple and Round Rock Hospital and Williamson County health initiatives

### PROFESSIONAL AND TEACHING EXPERIENCE:

6/2002- 6/2006

Presidential Appointee (2002)

Deputy Assistant Secretary for Population Affairs

Office of Population Affairs

# Case 2:16-cv-00742-ODW-AFM Document 78-1 Filed 04/28/16 Page 3 of 10 Page ID #:1727

Alma L. Crumm Golden, M.D. Curriculum Vitae Page 2

United States Department of Health and Human Services, Office of the Secretary

1101 Wootton Parkway, Suite 700 Rockville, Maryland 20852

In that position, directed the Office of Population Affairs in the United States Department of Health and Human Services. The Office of Population Affairs administers services delivered through Title X (Family Planning) and Title XX (Adolescent Family Life). Served as senior executive administrator

- For the Nation's Title X Family Planning program through \$289,000,000 worth of grants to 89 state and non-profit entities to 4600 clinics serving over 5,000,000 clients yearly.
- For the Title XX Adolescent Family Life program funding \$30,000,000 worth of grants to both abstinence education and care for pregnant and parenting teens through 104 community agencies.
- For the Embryo Adoption Awareness program providing \$2,000,000 in grants to promote the donation of frozen embryos to couples desiring pregnancy and parenting.
- For the National Abstinence Media Campaign utilizing \$10,000,000 in contracts to develop and distribute messages through websites and media to equip parents to communicate with their children about sexual abstinence and avoidance of health risk behaviors.
- For the development and completion of the Nation's first Abstinence Education Evaluation Conference, utilizing a "call for papers" and peer review. First conference November 2005, next conference planned for March 2007.
- For research and evaluation programs on Family Planning, including Service Delivery Improvement grants, HIV Prevention and Males services research.
- For research and evaluation of the Adolescent Family Life programs developing and implementing the nation's first OMB approved core survey instruments for abstinence education and care of pregnant and parenting teens.
- For the immediate Office of Population Affairs supervising three divisions, thirty regionally deployed employees, and thirty central staff.

# Served as policy adviser

- To the White House, Domestic Policy Council on matters of Family Planning,
   Abstinence Education, HIV Prevention, Teen Pregnancy, Embryo Adoption, Statutory
   Rape and Parent Involvement.
- To the Secretary of Health on matters of Reproductive Health and Family Planning, legislative initiative on Title X and Title XX, and policy development and implementation.
- To the Assistant Secretary of Health on matters of Title X, Title XX, Embryo Adoption, Evaluation and Research, and Abstinence Media program development and management.
- To the Department of State on matters of international HIV Prevention with a focus on abstinence education, family planning and prevention of maternal to child transmission.
- To the Department of Justice on matters of sexual assault, exploitation, rape and coercion of young teens by older individuals.

# Case 2:16-cv-00742-ODW-AFM Document 78-1 Filed 04/28/16 Page 4 of 10 Page ID #:1728

Alma L. Crumm Golden, M.D. Curriculum Vitae Page 3

> To the Department of Defense and the National Institutes of Health on matters of adolescent research (National Longitudinal Study on Adolescent Health) relevant to military populations.

1999-2002

Editor-In-Chief, Adolescent and Family Health, professional journal of Institute for Youth Development

Responsibilities include:

- First editor of new multidisciplinary journal regarding adolescent risk behaviors and interventions.
- Development of journal policy, author guidelines, and editorial review systems
- Coordination of Editorial Board meetings and action
- Initial review and distribution for peer-review of original research articles

1997-2002

Medical Director and Founder

SAGE Advice Council

Responsibilities include:

- Conceptualization and development of health education training programs for health professionals
- Grant proposal development and submission
- Development of didactic and small group activities, videos, and lectures
- Review and development of written materials and resources
- Presentations regarding adolescent risk behaviors to practicing physicians, resident physicians, nurses and social workers
- Data collection and analysis of outcomes of training
- Review of research and evaluation regarding SAGE Advice

1996-2000

Associate Medical Director UTMB HealthCare Systems 700 University Boulevard Galveston, Texas 77550 Responsibilities include:

- Development of Medicaid managed care program and network for UTMB and associated counties
- Development of Children's Health Insurance Program (CHIP) for UTMB and associated counties
- Quality Improvement for children's programs
- Utilization Management for children's programs
- Provider network development and integration

1991-1999 Clinical Assistant Professor of Pediatrics

# Case 2:16-cv-00742-ODW-AFM Document 78-1 Filed 04/28/16 Page 5 of 10 Page ID #:1729

Alma L. Crumm Golden, M.D. Curriculum Vitae Page 4

Director of Pediatric Services
Regional Maternal Child Health Program
Department of Obstetrics and Gynecology
University of Texas Medical Branch
Responsibilities included

- Strategic development of pediatric care in underserved communities for indigent patients and their families
- Development, supervision and staffing of clinical laboratory services for pediatric patients, including assessment and implementation of CLIAwaived services
- Administrative management of pediatric services in 16 Maternal and Child Health Clinic sites
- Supervision of 8 pediatricians serving clinics

1988-1991

Outpatient Pediatrician

Pediatric Associates-Alvin office

Texas City, TX

1987-1988

Clinical Instructor with Division of School Health/Community Pediatrics

University of Texas Medical Branch

Galveston, Texas

#### **Grants Received**

Title V SPRANS Planning grant 7/2001 to 6/2002 for \$99,872

Title V Abstinence Education Grant: awarded 1/1/99 by the Texas Department of Health for \$217,000.

Continuation of above grant for period of 2/2000 to 8/2001 for \$517,000.

Continuation of above grant for period of 8/2001 to 9/2002 for \$458,000.

#### EDUCATION:

5/1971

Cum Laude Graduate

Bachelor of Arts Degree with majors in Chemistry, Biology and Secondary

Education Certification Houston Baptist College

Houston, Texas

11/1975

M. D. Degree

University of Texas Medical Branch

Galveston, Texas

1/1/76-12/31/76

Post-doctoral training, PL-1

Department of Pediatrics

University of Texas Medical Branch

# Case 2:16-cv-00742-ODW-AFM Document 78-1 Filed 04/28/16 Page 6 of 10 Page ID #:1730

Alma L. Crumm Golden, M.D. Curriculum Vitae Page 5

Galveston, Texas

1/6/86-1/31/87 Post-doctoral training, PL-2

Department of Pediatrics

University of Texas Medical Branch

Galveston, Texas

2/1/87-2/28/88 Post-doctoral training, PL-3

Department of Pediatrics

University of Texas Medical Branch

Galveston, Texas

### COMMITTEE AND TASK FORCE RESPONSIBILITIES:

### A. National Focus

2012-2013	CDC independent reviewer for internal and grantee publications and materials regarding HIV, Adolescent Health and School Health Policies
2012-Present	Participant on CDC Expert Panel on Youth HIV/STI/Sexual Health Review
2012	Consultant to Annie Casey Foundation panel on Adolescents in Foster Care
2012-Present	Baylor University School of Education, Dean's Advisory Committee
2010-Present	Coordinating liaison for BS&W to the Baylor Center for Developmental Disabilities
2007-2011	Chair of Expert Panel for CDC-funded review of adolescent risk avoidance programs resulting in publication of the SMARTool through Center for Relationship Education, Denver, Colorado
2008	Institute Of Medicine: reviewer for IOM study on Title X Family Planning
2005-2006	NIH Expert Roundtable for the Add Health Study: Wave IV
2005-2006	Interagency Council for US Department of Justice, Juvenile Justice (OJJDP): consultant from HHS
2003-2006	President's Emergency Plan for AIDS Relief: Expert Task Force for Prevention of Maternal to Child Transmission and Pediatric Care
2002-2006	HHS Workgroup on Prevention of the Sexual Exploitation of Young Teens
2001-2003	Consultant on Adolescent Heath to the American Academy of Pediatrics "Bright Futures" Project

# Case 2:16-cv-00742-ODW-AFM Document 78-1 Filed 04/28/16 Page 7 of 10 Page ID #:1731

C	llma L. Crumm Eurriculum Vita Page 6	
	2001-2002	Department of Health and Human Services Maternal and Child Health (MCH) Research Grants Committee
	1999-2002	Editor in Chief for Editorial Board of Adolescent and Family Health
	1998-2002	Medical Institute Advisory Board
	1997-2002	American Academy of Pediatrics, Task Force on the Family, Coordinator for AAP Policy Issues related to Task Force Findings
	1995-2001	Work Group on Unintended Pregnancy—convened by National Association of County and City Health Officials *Served on planning committees and assisted in developing and editing Work Group statement.
	1993-2002	American Academy of Pediatrics Community Access To Child Health (CATCH) program participant *Featured in 1995 CATCH brochure and promotional video
В.	International 2005	China Adolescent Health Conference, Bejing Medical University, featured speaker for three sessions on developing and implementing effective public health strategies with a focus on risk avoidance and family involvement
	2003-2004	Reviewer and editor of various international documents and proposals on maternal and child health, the ABC model, family planning and adolescent health associated with US Department of Health and Human
	2002-2005	Services, the US State Department, and US A.I.D.  Reviewer for multiple sets of PEPFAR grant applications for HIV prevention through CDC and USAID: Primary focus Prevention of Maternal to Child Transmission and Youth Prevention Strategies
	2002, 2011	Senior physician, Honduras clinical outreach mission with medical students
C.	Texas 2013-Present	Deans' Advisory Council, Baylor University School of Education, Waco, Texas
	2010-Present 2009-2012 1999-2002	Temple ISD School Health Advisory Committee, Temple, Texas Board of Directors, Lone Star Circle of Health FQHC, Central Texas Appointed by Governor George Bush to the newly created School Health Advisory Committee for the State of Texas, administered under the Texas Department of Health.
	1999-2002 1996-2002 1999-2001	District Chairperson for Texas Pediatric Society Executive Committee Legislative Committee Member, Texas Pediatric Society Acting Past President, CHARIOT (Children's Hospitals and Related Institutions of Texas)

# Case 2:16-cv-00742-ODW-AFM Document 78-1 Filed 04/28/16 Page 8 of 10 Page ID #:1732

Alma L. Crumm Golden, M.D. Curriculum Vitae Page 7

1999-2002	CHIP Task Force Chair, CHARIOT (Children's Hospitals and Related
	Institutions of Texas)
1997-2002	CHIP Coalition member and participant
1992-1999	Texas Department of Health Interagency Task Force on School Health
1997	Texas Department of Health, Health Care Financing, Medicaid Managed
	Care Medical Directors
1993-1994	Texas Education Agency Task Force on Health and Sexuality Curriculum
	Review

### A. University of Texas Medical Branch, Galveston

1998-2000	Pediatrics CME Planning Committee
1997-1999	Chair, Graduate Medical Education Managed Care Training For Residents
	Committee
1995-1996	Continuing Process Improvement Committee for Pregnancy, Delivery and
	Neonatal Care

### D. Other

1998-2000	President, UTMB Pediatric Alumni Association
1997-2000	Advisory Committee for Special Needs Children, Harris County Regional Area
1995-1999	Texas Community Access To Child Health (T-CATCH) Chair
1979-1995	Volunteer physician: Indigent care clinic
	Brazoria County Health District
1993-2001	Texas Pediatric Society
	Committee on Community Pediatrics—consultant
	Executive Leadership Council
1992-1996	Teacher - Parenting workshop: "Parenting Within Reason" with R. A. Scott
	Texas, New Mexico, Georgia, Florida, Tennessee
1986-1994	Teacher - Bible Study for Young Single Adults
	Heights Baptist Church
	Alvin, Texas
1982-1985	Trustee: Elected Board Member
	Sweeny Independent School District
	Sweeny, Texas
1979-2002	Consultant and inservice provider to school systems
	Brazoria and Galveston Countles and Region IV Education Service Center

### TEACHING RESPONSIBILITIES:

- A. Texas A&M Health Science Center, Temple
  - MSI and MSII Ethics and Becoming A Physician 2010-2014

# Case 2:16-cv-00742-ODW-AFM Document 78-1 Filed 04/28/16 Page 9 of 10 Page ID #:1733

Alma L. Crumm Golden, M.D. Curriculum Vitae Page 8

- "Public Health and Policy for Physicians" Elective for Medical Students 2011-2014
- Adolescent Interventions and Interviewing "Talking to Teens about Tough Topics" MSIII 2008-2014
- Other courses and discussion groups as requested 2010-2014
- B. University of Texas Medical Branch 1991-2002
  - Development and implementation of course on managed care and cost containment for faculty, residents and medical students at UTMB
  - Review, coordination, production and implementation of health education material for school and clinic systems
  - Preceptor and lecturer to pediatric, obstetrics and gynecology, and family medicine residents re: community health services, well child and preventive health management, breastfeeding, patient education methods.
  - Provide pediatric training to nurses, physician assistants, nurse practitioners, and midwives.

#### **BOARD CERTIFICATION:**

American Board of Pediatrics, February 1990 Latest re-certification, 2007

#### LICENSURE INFORMATION:

Texas State Board of Medical Examiners

#### PRESENTATIONS:

"SMARTool Implementation: Applying what works in risk-avoidance programming" Multiple (>10) presentations in the US in a variety of conference settings 2010-2012

"The ABC Model: Effective Strategies for Public Health" presented at multiple (>8) Family Planning, HIV and Health and Human Services conferences 2003-2005

"Public Health Strategies for Adolescents: Risk Avoidance and Support Systems" presented in international meetings, federal and state conferences (>10) 2002-2006

"Effective Abstinence Education: Applying Science to Abstinence Programs" presented to abstinence educators at both state and federal conferences (>5) 2002-2006

"Parental Involvement and Adolescent Health" presented at multiple abstinence and adolescent conferences at state, local, and federal levels (>10) 2002-2007

"SAGE Advice" Presentations (over 100 presentations in Texas in 2001-2002). The 3-6 hour presentations trained over 3000 health and education professionals in effective, efficient teen interview and intervention techniques.

Alma L. Crumm Golden, M.D. Curriculum Vitae Page 9

"Talking to Teens about Tough Topics: Effective Communication in Individual Encounters" multiple presentations (>30) for HHS, universities and other agencies 2002-2013

#### PUBLISHED:

Editor for weekly "Child Health Matters" Temple Daily Telegram: Authors many articles and edits submissions for publication 2010- Present

Alma Golden, Stan Weed, Doug Kirby, The Center for Relationship Education (2010). Systematic Method for Assessing Risk-Avoidance Tool (SMARTool). Denver, Colorado

Founding Editor, opinion-writer and reviewer for Adolescent and Family Health, 1999-2002.

Amr Abouleish, MD, MBA, Alma Golden, MD, Alice Anne O'Donnell, MD, Patricia S. Beach, MD, Kirk Calhoun, MD, Thomas A. Blackwell, MD, Patricia Gallaway, RN, Lenore Teske, RN, Suzanne m. Wilson, RN, Ester M. Koleng, Alvin LeBlanc, MD. "Problem-based learning in a manged care seminar for all new residents at an academic medical center". Texas Medicine February 2003 Vol 99 No.2

Meyer, W.J., Schochet, S.S., Perez-Polo, J.R., Werrbach-Perez, K., Davis, A. and Haggard, M.E. Cerebral neuroblastoma with elevated nerve growth factor. Bull Cancer (Paris). 7(3):333-336; 1980.

McCormick, D.P., Davis, A.L. Injuries in Sailboard Enthusiasts. Brit. J. Sports Med. 22(3):95-97; September 1988.

Nichols, M. M., MD, Walker, D.H., MD, Frates, R.C., MD, and Davis, A., MD. Three-Month-Old Infant With Diarrhea, Fever, and Rash. The Journal of Pediatrics (St. Louis). 114(1):154-160; January 1989.

Golden, A.L. Win-Win-Win! A School Health Program that Pleases Everyone. Texas Study of Secondary Education (Austin, TX). III(II):18-20; Spring 1994.