Prevention and Early Intervention Through Policy: A Mother's Story

Cytomegalovirus Public Health & Policy Conference Salt Lake City

September 26, 2014

Jenny Meeden Bailey, J.D.

cCMV Mom

Historian and Policy Analyst

All photos and images belong to Jenny Meeden Bailey unless otherwise noted

"...Something as simple as always washing your hands...could have prevented a child from being born with CMV."

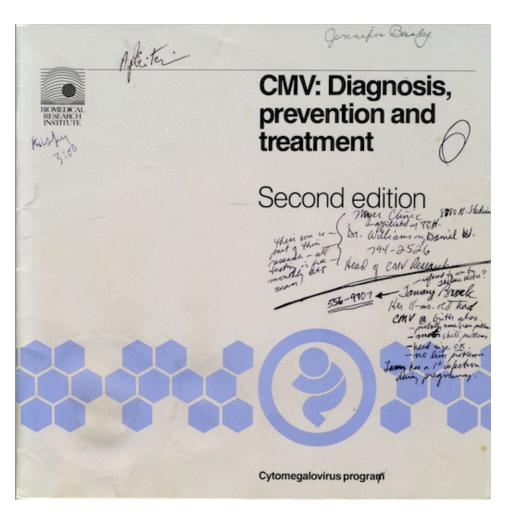
"A child like me, maybe."



December, 1989



CMV: Diagnosis, prevention and treatment. Second edition. 1989.



"Is there a way to prevent CMV?"

"Hygienic precautions, such as handwashing and limiting contact with body fluids, are effective in reducing the risk of CMV infection."

CMV: Diagnosis, prevention and treatment, p.12.

Caroline Recalls Her Prognosis

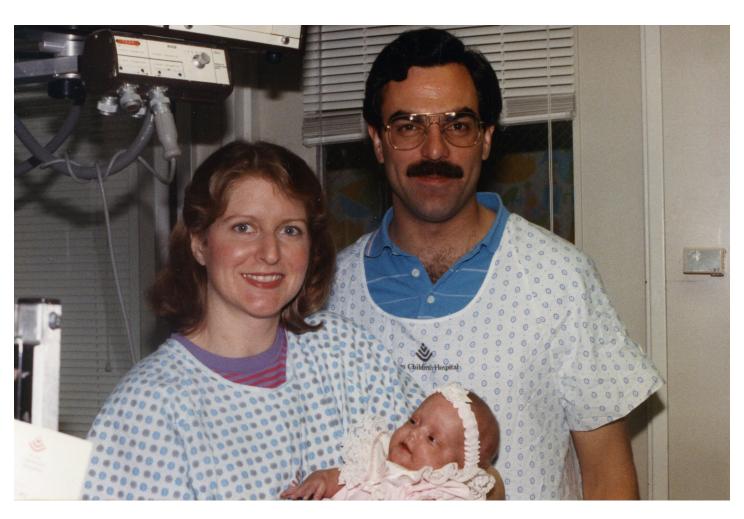
"There was a strong possibility that I would not live very long. How terrifying it must be to hear that your child could die shortly after birth; or if I lived, they could have a daughter... with several severe handicaps. I'll never know just how tough it was for my parents to go through that experience, and I hope I never do."

Caroline Bailey, 2014.

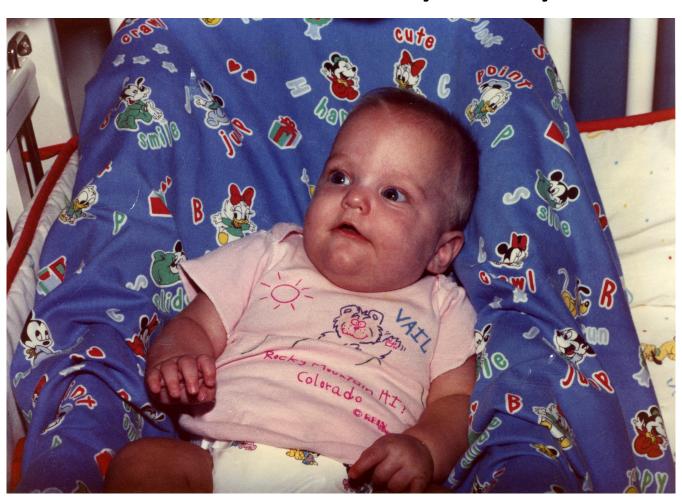
Birthday March 11, 1990



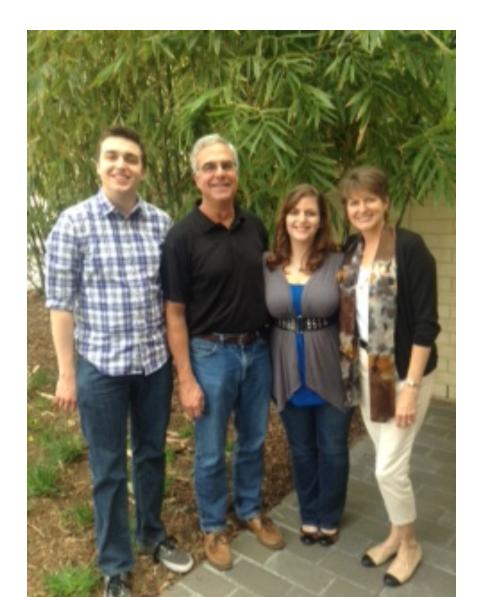
Caroline Smiles Because She Feels Better!



Cause: Ganciclovir Effect: Healthy Baby



A Life Full of Challenge



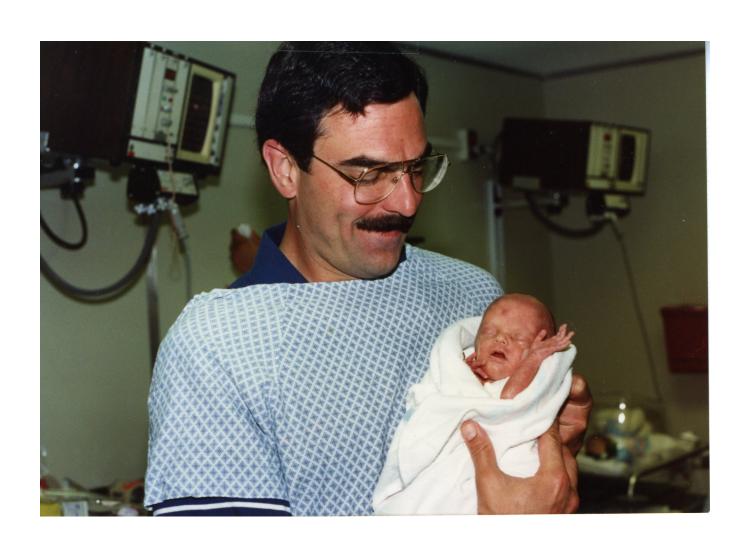
Zesty Determination



Excellent Medical Treatment Dr. Gail Demmler-Harrison



World's Best Dad



Supportive Brother



cCMV Mom

Image courtesy Memorial High School, Houston Texas. Emily Schwabenland, author. 2015.



David Groom Brian Guarino Kyle Guest Edith Guevara Brennan Guldner Ashley Gunter

Cameron Guthrie Kary Guthrie Liliana Guzman Chelsea Hanson Evan Harche Charles Harding



Friends and Extended Family



Medical Research

Photo courtesy Texas Children's Hospital, Houston, Texas

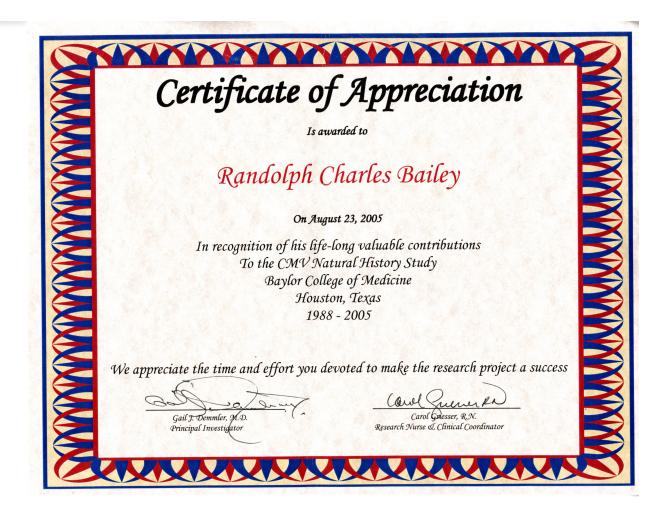


Research Follow-up Appointment

Photo courtesy Texas Children's Hospital, Houston, Texas



Control Subject



Parent Subjects





Congenital CMV Registry, Research, Clinic

Texas Children's Hospital
.. Feigin Center
1102 Bates Street, Suite 1150
Houston, Texas 77030-2399

832.824.4387 832.825.4347 Fax cmw@bcm.edu bcm.edu/pedi/infect/cmv texaschildrensblog.org/author/gdemmler

August 22, 2013

Brent and Jenny Bailey P.O. Box 1758 Blanco, Texas 78606

Dear Brent and Jenny,

I would like to thank you for participating in our recent CMV Parent Interviews and Focus Group Research Project. Your insights will help us tremendously to understand the psychosocial impact of congenital CMV, including common perceptions surrounding newborn screening for CMV and the long term effect it may have on children and their families. Many families recalled their memories as if they occurred yesterday, and it can be a very moving and deeply emotional experience. I so very much appreciate you sharing your memories and experiences with our CMV Research Team.

The goal of this psychosocial research is to develop better health messages and teaching tools for parents, medical professionals, policy makers, and the general public. At this time we are reviewing and transcribing the data for analysis. When the results are published, we will send you a copy of the report.

If you have any questions or comments don't hesitate to contact me (832-824-4330 gdemmler@bcm.edu) or one of my CMV research assistants at 832-824-1768.

Sincerely,

Gail Demmler-Harrison, M.D.

Professor, Department of Pediatrics, Section of Infectious Diseases, Baylor College of Medicine Attending Physician, Infectious Diseases Service, Txas Children's Hospital Director, CMV Registry, Research and Clinic



Congenital CMV Registry, Research, Clinic

Excellent Public School Teachers



Signing Flower Girl



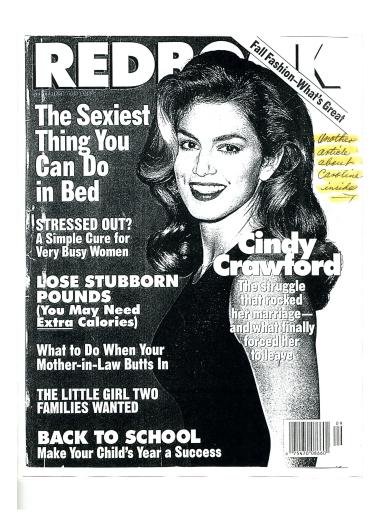
Spreading the Word About CMV and Ganciclovir

Watch image courtesy Texas Children's Hospital, Houston, Texas



1995: Our Story in Redbook

Image courtesy Redbook.



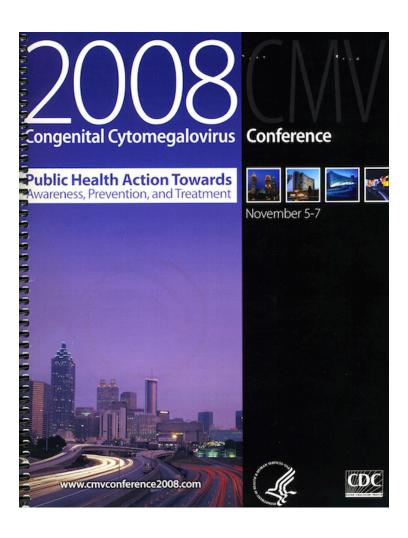
Cute, Cuddly and Contagious

Article courtesy Texas Children's Hospital. Houston, Texas.



Our Own Awareness Increases

Image courtesy Centers for Disease Control.



2013: Utah Capitol

Image courtesy http://www.utah.com/culture/capitol.htm



2014: Maddie's Mission The Armstrongs

Arrticle and photo courtesy Chronicle. Lithttp://www.houstonchronicle.com/news/health/article/Awareness-oftle-known-virus-is-goal-of-5281484.php

Awareness of little-known virus is goal of 'Maddie's Mission'

By Kyrie O'Connor

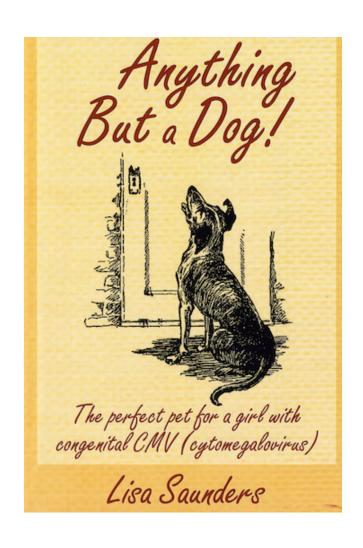
March 1, 2014

Farah Armstrong woke up, bustled around and got set for work. She readied her little blond 2-year-old, Sophie, for day care and drove to her obstetrician's office for her 8 a.m. appointment. It was Jan. 30, a day just like any other for a woman in the 38th week of a pregnancy that had been textbook perfect - the 20-week ultrasound had shown a robust little girl. Her due date was Valentine's Day.



2014: Connecticut

Image courtesy Lisa Saunders and the Baylor College of Medicine.



Death and Disability

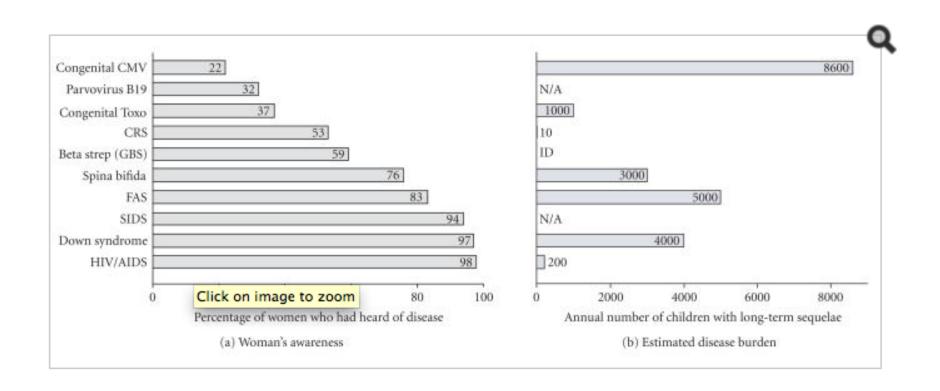
- 40 infants die and 800-1000 newborns are permanently disabled each year in Texas
- This is greater than the total number of newborns (600) diagnosed annually with all the core disorders on the Texas newborn screening panel combined.

H.R. Baer, et al. Survey of congenital cytomegalovirus (cCMV) knowledge among medical students. J Clin Virol 2014; 60: 222–242. Abstract accessible at http://www.ncbi.nlm.nih.gov/pubmed/24794398 Last accessed 7/20/2014.

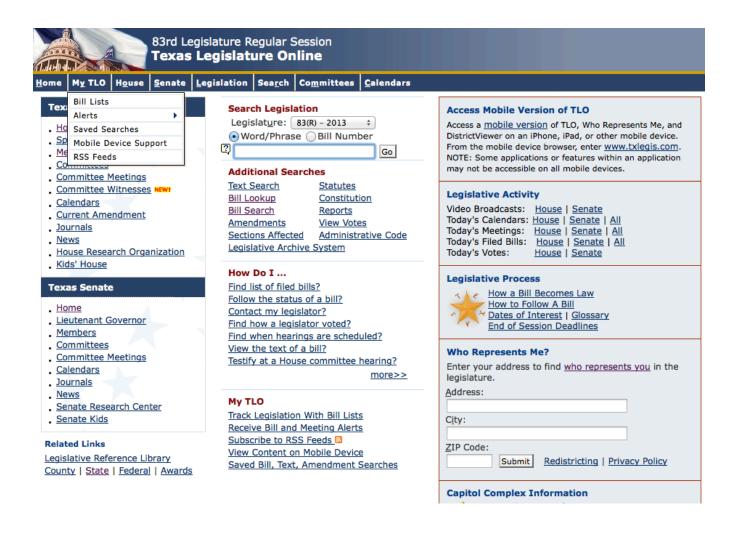
Texas Department of Health Services website. https://www.dshs.state.tx.us/newborn/faqs_nbs.shtm Last accessed 7/20/2014.

CMV: Disease Burden is High Awareness is Low

z Image Jeon, Jiyeon, et al. Knowledge and awareness of congenital cytomegalovirus among women. Infect Dis in Obstet and Gynecol 2006 80383. Accessible at http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1779612/ Last accessed 7/20/2014.



http://www.capitol.state.tx.us



July 20, 2014 Launch: Letter to the Legislature

Re: Alleviate Human Suffering Caused by Congenital Cytomegalovirus Infection through Education and Newborn Screening

Hon. Senators and Representatives,

We are three moms with stories spanning a quarter-century, but with the same message:

Most people will contract cytomegalovirus (CMV) at some point in their lives. Many people experience no symptoms, never know they have been infected, and are unharmed by the virus. But, for the unborn, CMV can be devastating and even deadly:

Personal Stories Plus Reliable Data

- Congenital (present at birth) CMV is the most common congenital infection in the United States and causes death in an estimated 400 infants and permanent disabilities in 8000-10,000 newborns each year.¹
- This translates to 40 infant deaths and 800-1000 permanently disabled newborns each year in Texas, greater than the total number of newborns (600) diagnosed annually with all the core disorders on the Texas newborn screening panel combined.²
- Congenital CMV has a greater disease burden than does Down syndrome, spina bifida, sudden infant death syndrome, fetal alcohol syndrome, or congenital toxoplasmosis.³
- CMV is spread through contact with bodily fluids including saliva and urine.
 Simple hygienic precautions when carefully practiced by pregnant women reduce the number of congenital CMV infections.
- The Centers for Disease Control and Prevention (CDC) and the American College of Obstetricians and Gynecologists (ACOG) both recommend CMV counseling for pregnant women.⁴
- Less than half of obstetricians counsel their patients about CMV 5, and only about one in five women are aware of CMV.
- Congenital CMV is treatable if diagnosed early. Antiviral drug therapy can aid normal brain development and help prevent hearing loss.⁶
- In 1999 the Institute of Medicine ranked the development of a CMV vaccine as a highest priority because of the lives it would save and the disabilities it would prevent, but CMV has eluded vaccine development efforts.⁷

The "Ask"

- "Thousands of other CMV families have been telling their stories, too, but CMV awareness is still abysmally low. It is time for policy to increase prevention and increase early intervention when infection occurs."
- "We are looking for authors and sponsors of a CMV education and universal newborn screening bill for the 84th Texas Legislative Session."

Happy Birthday Song Hand-washing and cCMV-safe XO!

- Sing the Happy Birthday song using "babies" as the name while washing your hands with soap and water. This lengthens the washing time
- Rather than kissing young children on the face, which is so natural for mothers, they should give their toddlers a cCMV-safe XO, a kiss on the top of the head and a big hug

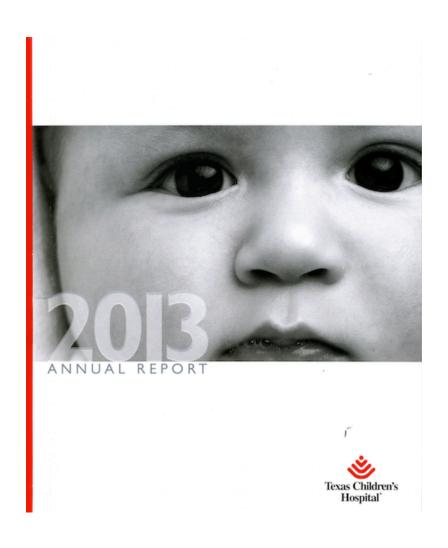
July 28, 2014 Eight Days After Launch

Photo courtesy Farah Armstrong



Change Behavior through Education

Image courtesy Texas Children's Hospital, Houston, Texas



Cute, Cuddly and Contagious

Image courtesy Texas Children's Hospital, Houston, Texas

Cytomegalovirus (CMV) warning for Pregnant Women: Danger!



Do not kiss this cute baby on the mouth. Those saliva bubbles may harbor CMV which may cause birth defects as Children's and death in the unborn.

A Clear Message Thank You Utah!

https://www.facebook.com/UtahCMVCouncil



Texas Capitol, Here We Come!

