

# The First 10 Days

## THE SCIENCE BEHIND BABY BRAINS

[REFERENCE GUIDE]

We are aware that most physicians are unfortunately not aware of all of the evidence we have about the connection between acetaminophen and chemical injury to babies. However, WPLab, Inc. does not provide medical advice and does not recommend any particular method of treating fevers or pain in children. This resource is a free resource for parent education, and should not be used as a medical recommendation or take the place of medical advice.



## 3 THINGS TO KNOW ABOUT THE

# FIRST 10 DAYS

## AND THE BABY BRAIN

The first 10 days are critical for the health and neurodevelopment of your baby. It's also the time of life when they are most susceptible to some chemicals.



### The question is, why?

1

Bodies are very good at processing chemicals, and often use a chemical reaction called glucuronidation to do so.

2

However, babies are very bad at this because their glucuronidation pathways isn't very efficient until the baby is about 10 days old.

3

Because babies don't have this pathway, some chemicals become very toxic. Baby brains are very sensitive at that age and can be very vulnerable to toxicity.

In our modern society, babies need to process lots of different chemicals like pesticides and plastics that contaminate their environment, or drugs that the baby is given.

### Acetaminophen is a great example.

A newborn baby can get acetaminophen from more than one place. It be passed along from the mother if she was given it during labor and delivery, or even during circumcision. The body uses the glucuronidation pathway to process acetaminophen, but because babies are not good at this process, it can lead to toxic reactions that target the brain.

It's important to be aware of these issues and make a plan for what you will tell the doctors about you and your baby's preferred care as part of your birthing and post-birthing plan.

For learn more about how the babies brains are affected by acetaminophen, read "[Drugs and the Baby Brains](#)," or visit [wplaboratory.org/resources](http://wplaboratory.org/resources).



#### More about WPLab Inc.

WPLab is a not-for-profit company that conducts research and education related to immune system dysfunction in high-income countries. A current focus is the interaction between the immune system and acetaminophen (paracetamol) early in life, and how that interaction affects brain development. We are currently conducting laboratory work, and, at the same time, work with social media and other venues to educate caregivers about what is known regarding the impact of acetaminophen (paracetamol) on the developing brain. For more information about WPLab, please see our website at [www.WPLaboratory.org](http://www.WPLaboratory.org).