

RIVA Pediatrics Program

ARxIUM & The Emily Jerry Foundation Partnership Aims to Eradicate Errors in Pediatric IV Compounding

At ARxIUM, patient safety is at the top of our list of core values and is the primary driver for innovation in the pharmacy solutions we offer. We believe that there is no place where safety is more imperative than in the preparation of sterile IV compounded medications for pediatric patients. That is why we are so honored and excited to have formed a unique partnership with The Emily Jerry Foundation (EJF).



This partnership was formed in response to the growing number of patients that die every year from medical errors. According to Johns Hopkins Universityⁱ, that includes more than 250,000 in North America and other studies show that number could be more than double. Regardless of which study you reference, it is clear that preventable medication errors represent the largest percentage of errors.

That is why ARxIUM and EJF will focus on addressing preventable errors in the IV compounding process at pediatrics facilities. With these patients being the most susceptible to negative outcomes from medication errors due to their smaller body weights and dose concentrations, the partnership has the aggressive objective of eliminating those errors in the IV compounding process. In addition, ARxIUM and EJF aim to form a consortium of children's hospitals in North America to join us in our quest to reach zero errors in IV compounding by 2021.

The Problem: Humans Make Mistakes

We recognize that the wonderful people who work with these vulnerable patients are committed to providing the safest care resulting in excellent outcomes, but the fact is that humans make mistakes. Mistakes in manual IV compounding can be the result of any number of factors, including but not limited to:

- A regulatory standard that doesn't go far enough
- Inconsistent and/or flawed processes
- Humans are not and never will be perfect

The Solution: The Right Automation

We believe automation is the best way to address the problem, but it has to be the right automation. **RIVA**, our award-winning IV compounding system used by hospitals around the world to accurately prepare IV syringes and bags, is the right automation. Eliminating most of the failure points in the manual IV compounding process, RIVA was designed to accommodate the need for extreme precision and accuracy. In fact, the first live dose ever prepared by RIVA was administered to a premature infant in 2008. Since then, RIVA has prepared over 8 million precision doses!



Additionally, this best-in-class technology is not only safer for your patients, but it's safer for your pharmacy staff. RIVA eliminates the need for the repetitive motion required in the manual process, which can lead to fatigue and potential injury for your staff. RIVA limits the need for exposure to hazardous medications that can cause harm to the staff responsible for preparing doses.

Program Benefits

We want your hospital to join our consortium and our pursuit of zero errors in IV compounding by 2021. We understand it's an aspirational objective and it certainly won't be easy, but we truly believe that it is achievable. While reaching this goal would be the ultimate benefit, we want to call out a few more that we intend to provide:

- Support for hospital executives and foundations in attracting/prioritizing investments towards safer IV compounding practices
- Opportunities to connect with like-minded members of the consortium, providing the opportunity to share best practices, hear different perspectives and collectively address the issue of errors in IV compounding
- Potential special terms and financing opportunities for those who participate in the consortium

Join Us, Today!

Our experienced team will be reaching out shortly to provide more information. In the meantime, if you are interested in getting your hospital involved in this program, contact us today at RIVA_Pediatrics@ARxIUM.com.

ⁱ <https://hub.jhu.edu/2016/05/03/medical-errors-third-leading-cause-of-death/>