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COMPARISON OF ERRORS AND WASTE: ROBOTIC IV AUTOMATION (RIVA) VERSUS MANUAL COMPOUNDING (C2), Ivy Hui, Rita Jew, Children's Hospital of Orange County, Orange, CA (ihui@choc.org)
IRB approval pending

Rates for parenteral admixture compounding errors and waste generated by pharmacy personnel have been studied but have not been compared to those generated by RIVA, a medical device that automatically prepares intravenous syringes or bags. This study compared the rate of error and waste between small volume parenterals compounded by pharmacy technicians versus RIVA. Data was collected prospectively on amount of waste and errors found. The types of errors included any deviation from the following: drug used, drug concentration made, amount of drug used, diluent used, expiration date documented on label, final volume drawn. The total number of products prepared, manually by pharmacy technicians and automatically by RIVA, per day will be retrieved from the pharmacy electronic database. Descriptive statistics and student t-test will be utilized in the data analysis. The results will be discussed.