

# PRACTICE CHANGE ALERT

**10/20/21: Due to increased adapter use, we will transition to IV push administration for select antibiotics at all campuses**

## WHAT

In 2019, BBraun adapters were widely implemented at St. Charles to allow nurses to connect vial to bag right before administration for 30 different drugs.

Supply of adapters has remained consistent, but use (especially with high patient volumes) is nearly outpacing ability to obtain.

Transitioning a select group of drugs to be given via IV push will reduce adapter use by 25% allowing us to continue to use adapters for urgent or more challenging mixtures.

Nurses at all campuses will now be directed to mix and administer cefazolin 1gm and ceftriaxone 2gm doses as IV push over 3 to 5 minutes.

Orders in Epic will show clear dilution and administration instructions and both drug and required diluent will be available in Pyxis. For example:

- Dilute ceFAZolin 1gm vial with 7.5 mL sterile water for injection. Shake well until dissolved. Inject the solution slowly as IV push over 3 to 5 minutes.
- Reconstitute ceTRIAXone 2 g vial with 19.2 mL sterile water for injection and shake well. Withdraw entire contents of vial and administer slowly as IV push over 3 minutes.
- Drug vial and diluent should be saved after preparation for barcode scanning during administration.

## WHERE

All St. Charles campuses

## WHY

ICU Medical pumps and their "B" line offer an alternative solution to manual push administration if desired. Reminder syringes larger than 10mL do not require an adapter.

An antibiotic given by 3-5 minute IV push does not change the time that the drug concentration remains above the minimum inhibitory concentration (MIC) by a significant amount compared to 30-minute standard infusions. Meaning this change will not impact the efficacy of these antibiotic regimens.