Please see below SBAR regarding the recent update to our Renal Dose Adjustment Guidelines for Antimicrobials as well as corresponding changes to default weights in Epic for weight-based antimicrobials. Please contact myself or any member of the ASP team with any questions or concerns.

Situation: Updates have been made to our Renal Dose Adjustment Guidelines for Antimicrobials (found here: nm-anti-infective-renal-dosing-guidelines.pdf (unmc.edu)) to better specify weights for dosing weight-based antimicrobial agents. Corresponding changes to default dosing weights in Epic orders will follow.
Background: Weight-based antimicrobials are often ordered using the patient's total body weight or dosing weight that defaults in Epic. These are not always appropriate and may lead to supratherapeutic drug levels and/or toxicity, especially in obese patients.
Our Renal Dose Adjustment Guidelines for Antimicrobials document contains the recommended weight to use for many of these antimicrobials to ensure pharmacists have easy access to information regarding the appropriate dosing weight when it is something other than actual body weight (i.e., adjusted or ideal body weight).
Assessment: After review of our current Renal Dose Adjustment Guidelines, updates were made to include additional ideal and/or adjusted body weight specifications that were previously not included. The following weight specifications are included in the document and will be updated in Epic:

- Ideal body weight (IBW)
  - Flucytosine
- Adjusted body weight (AdjBW)
  - Acyclovir
  - Aminoglycosides
  - Amphotericin B
  - Cidofovir
  - Foscarnet
  - Ganciclovir
  - Polymyxin B
  - Sulfamethoxazole-Trimethoprim
  - Voriconazole

Recommendation: Please utilize the Renal Dose Adjustment Guidelines for Antimicrobials document when verifying orders for weight-based antimicrobials to ensure the appropriate weight is used for dosing. In order to encourage appropriate prescribing and improve safety for obese patients, a ticket has been submitted to change Epic orders to default to the correct dosing weight for adult patients.