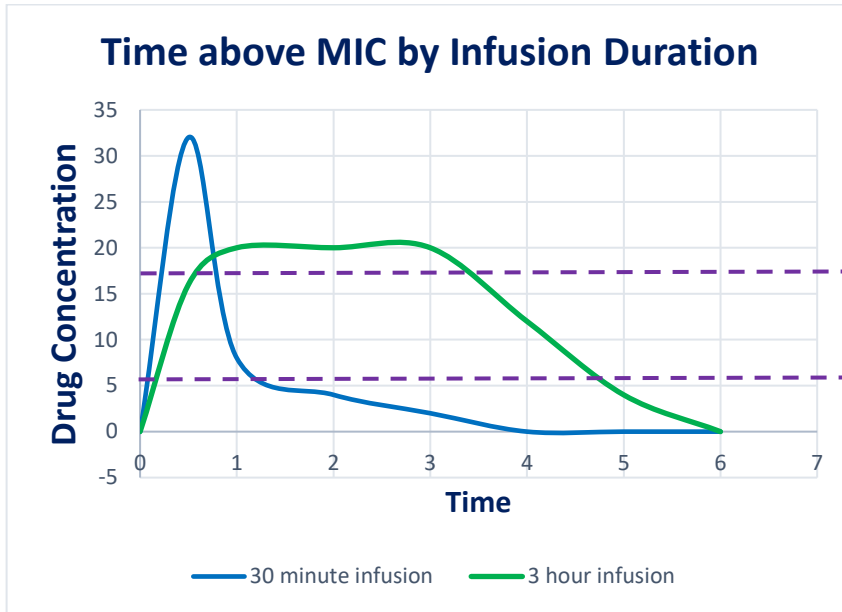


PRACTICE CHANGE: Meropenem and Piperacillin-Tazobactam Extended Infusion for Adults

Why is this important for our patients?



The **key to meropenem and piperacillin-tazobactam effectiveness** is keeping the drug levels above the bacteria's **MIC (minimum inhibitory concentration)**. This is needed to stop bacterial growth.

MIC of a **more** resistant bacteria

MIC of a **less** resistant bacteria

The **green line (3-hour extended infusion)** keeps the drug level above the **MIC (purple lines)** longer than the **blue line (30-minute infusion)**. This improves bacterial killing and resolution of infection.

What is my role?

Initial dose: over 30m

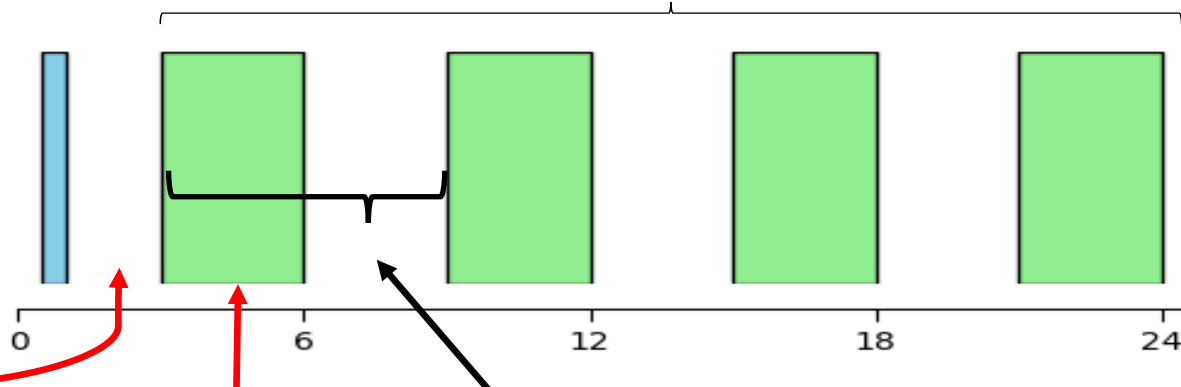
Subsequent doses: Extended infusions over 3h

1. **No change** to initial dose, over 30 mins.

2. **NEW interval** between dose 1 and dose 2:

Piptazo - 3 hours

Meropenem - 4 hours



3. **NEW:** Subsequent doses infused over 3 hours

4. **No change** to intervals after dose 2 (adjust for renal impairment as usual).



Alaris pump will prompt a choice of 30 mins or 3 hrs. Ensure the "infuse over" duration selected matches order in PowerChart.

IV bags will have a new sticker applied as a reminder.

