# จดหมายข่าว

กลุ่มงานเภสัชกรรม โรงพยาบาลสมเด็จพระยุพราชสว่างแดนดิน จังหวัดสกลนคร

## Fosfomycin sodium: Dose adjustment in patients with kidney impairment


### Fosfomycin sodium

**รูปแบบยา**: powders for solutions for injections or infusions

**ความแรง**: 4 gm/vial

**Mechanism of action**: Inhibition of the synthesis of cell wall peptidoglycan

**In vitro activity:**

**Gram positive**: *S. aureus* (including MRSA), *S. epidermis*, *S. pneumoniae*, *E. faecalis*, VRE

**Gram negative**: ESBL-producing Enterobacteriaceae, CRE, MDR-*P. aeruginosa*

**Anaerobe**: *Peptococcus* spp., *Peptostreptococcus* spp.

แนะนำให้ใช้ combination เพื่อป้องกันการดื้อยา

**ขนาดยา**

| Indication | Daily dose (gm/day) (maximum 8 gm/dose) |
|---|---|
| Blood stream infection | 12-24 |
| Bone and joint infection | 12-24 |
| Infective endocarditis | 12-24 |
| Complicated intra-abdominal infection | 12-24 |
| Hospital-acquired or Ventilator-associated pneumonia | 12-24 |
| Complicated skin and soft tissue infection | 12-24 |
| Complicated urinary tract infection | 12-24 |
| Bacterial meningitis | 16-24 |

**การปรับขนาดยาตามการทำงานของไต**

| CrCl[a] (ml/min) | % of indication – specific recommended daily dose to be administered | Frequency | Example: Full dose 12 gm/day | Example: Full dose 16 gm/day |
|---|---|---|---|---|
| 40 - 130 | 100% | 2 to 4 divided doses | 4 gm IV q 8 h | 4 gm IV q 6 h |
| 30 – 39[b] | 75% (70% to 80%) | 2 to 3 divided doses | 3 gm IV q 8 h | 4 gm IV q 8 h |
| 20 - 29[b] | 60% (50% to 70%) | 2 to 3 divided doses | 4 gm IV q 12 h | 4 gm IV q 12 h |
| 10 - 19[b] | 40% (30% to 50%) | 2 to 3 divided doses | 3 gm IV q 12 h | 2 gm IV q 8 h |
| <10[b] | 20% (20% to 30%) | 1 to 2 divided doses | 3 gm IV q 24 h | 2 gm IV q 12 h |
| Hemodialysis | 2 to 4 gm then 2 to 4 gm after HD (3 times weekly) | | | |
| Peritoneal dialysis | 2 to 4 gm q 48 h | | | |

a Estimated using the Cockcroft-Gault formula (manufacturer's labeling).

b The initial (loading) dose should be increased to twice the maintenance dose; not to exceed 8 g (manufacturer's labeling). For example, if the maintenance 4 gm then the loading dose should be 8 g

Reference: 1. Fosfomycin, Uptodate 2023, 2. Sanofos IV Dosage & Drug Information | MIMS Thailand. https://www.mims.com/thailand/drug/info/sanofos%20iv

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