

Fosfomycin

Fosfomycin is a synthetic, broad-spectrum, bactericidal antibiotic with *in vitro* activity against large numbers of gram-negative and gram-positive organisms including *E. coli*, *Klebsiella spp*, *Proteus spp*, *Pseudomonas spp*, and VRE. It does not have activity against *Acinetobacter*. Fosfomycin is available as an oral formulation only and its pharmacokinetics allow for one-time dosing.

Acceptable uses

- Management of uncomplicated UTI in patients with multiple antibiotic allergies and when oral therapy is indicated
- Uncomplicated UTI due to VRE
- Salvage therapy for UTI due to multi-drug resistant gram-negative organisms (e.g. ESBL, *Pseudomonas*) on case by case basis.

Unacceptable uses

- Never use for management of infections outside the urinary tract because fosfomycin does not achieve adequate concentrations at other sites.

Dose

- Uncomplicated UTI: 3g (1 sachet) PO once.
- Complicated UTI: 3g (1 sachet) PO every 3 days, up to 21 days of treatment.
- Powder should be mixed with 90-120 mL of cold water, stirred to dissolve and taken immediately.

Toxicity

- Diarrhea, nausea, headache, dizziness, asthenia and dyspepsia

Antibiogram

Organism	Number	%S	%I	%R
Escherichia coli	700	90.71%	5%	4.29%
Klebsiella pneumoniae	197	81.22%	9.64%	9.14%
Klebsiella oxytoca	21	100%	0%	0%
Proteus mirabilis	66	89.39%	6.06%	4.55%
TOTAL	984	88.92%	5.90%	5.18%
*percentages calculated from AML ESBL Log				

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