

## 1220 ticarcillin/clavulanate

- Not to use any prescription, OTC products, herbs without approval of prescriber; products with aspirin, NSAIDs may cause bleeding; to be taken with aspirin; prescriber will order, do not alter dose
- To notify all health care providers of product use
- That product can be taken without regard to meals
- That it may take longer for bleeding to stop
- **To notify prescriber if pregnancy is planned or suspected, not to breastfeed**

### ticarcillin/clavulanate (Rx)

*Func. class.:* Broad-spectrum antiinfective

*Chem. class.:* Extended-spectrum penicillin,  $\beta$ -lactamase inhibitor

**ACTION:** Interferes with cell-wall replication of susceptible organisms; osmotically unstable cell-wall swells, bursts from osmotic pressure; clavulanate inhibits  $\beta$ -lactamase and protects against enzymatic degradation of ticarcillin

**USES:** Respiratory, soft-tissue, and urinary tract infections; bacterial septicemia; effective for gram-positive cocci (*Staphylococcus aureus*, *Streptococcus faecalis*, *Streptococcus pneumoniae*), gram-negative cocci (*Neisseria gonorrhoeae*), gram-positive bacilli (*Clostridium perfringens*, *Clostridium tetani*), gram-negative bacilli (*Bacteroides*, *Fusobacterium nucleatum*, *Escherichia coli*, *Proteus mirabilis*, *Salmonella*, *Morganella morganii*, *Proteus rettgeri*, *Enterobacter*, *Pseudomonas aeruginosa*, *Serratia*); and *Peptococcus*, *Peptostreptococcus*, and *Eubacterium*

**CONTRAINDICATIONS:** Neonates, hypersensitivity to penicillins

**Precautions:** Pregnancy, hypersensitivity to cephalosporins, renal disease

## DOSAGE AND ROUTES

### Systemic/urinary tract infections, moderate/severe infections

- **Adult  $\geq 60$  kg: IV INFUSION** 3.1 g q4-6hr
- **Adult  $< 60$  kg: IV INFUSION** 200-300 mg/kg/day q4-6hr
- **Child  $> 60$  kg: IV INFUSION** 3.1 g q4-6hr
- **Child  $< 60$  kg: IV INFUSION** 200-300 mg/kg/day q4hr
- **Full-term neonates/infants  $< 3$  mo (unlabeled): IV** 50 mg/kg q4hr for severe infections; IV 50 mg/kg q6hr for mild to moderate infections

### Mild to moderate infections

- **Child  $\geq 60$  kg: IV INFUSION** 3.1 g q6hr
- **Child  $< 60$  kg: IV INFUSION** 200 mg/kg/day q6hr

### Renal dose

- **Adult: IV INFUSION** loading dose 3.1 g; CCr 60 mL/min, 3.1 g q4hr; CCr 30-59 mL/min, 2 g q4hr; CCr 10-29 mL/min, 2 g q8hr; CCr  $< 10$  mL/min, 2 g q12hr; CCr  $< 10$  mL/min with hepatic dysfunction, 2 g q24hr

**Available forms:** Inj 3 g ticarcillin, 0.1 g clavulanate; IV infusion 3 g ticarcillin, 0.1 g clavulanate; powder for inj 3 g ticarcillin, 0.1 g clavulanate

### Administer:

- Product after C&S, give  $\geq 1$ hr before bactericidal antiinfectives, change IV site q48hr

### Intermittent IV INFUSION route

- After diluting  $\leq 3.1$  g/13 mL of sterile water or NaCl (200 mg/mL), shake; may further dilute in  $\geq 50$ -100 mL NS, D<sub>5</sub>W, or LR sol and run over  $\frac{1}{2}$  hr
- Store reconstituted sol 12-24 hr at room temperature, or 3-7 days refrigerated

**Y-site compatibilities:** Allopurinol, amifostine, amikacin, anidulafungin, atropine, aztreonam, bivalirudin, bumetanide, ceFAZolin, cefepime, cefotaxime, ceFOXitin, ceTAZidime, ceftizoxime, ceTRIAXone, cefuroxime, chloramphenicol, cimetidine, clindamycin, cyclophosphamide, cycloSPORINE, dexamethasone, dexmedetomidine, digoxin,