

NON-FORMULARY**NAME OF DRUG**

ticarcillin-clavulanate

CLASSIFICATION

Antibiotic

ALTERNATE NAMES

TIMENTIN

INDICATIONS

- semi-synthetic penicillin indicated for the treatment of moderate to severe infections caused by susceptible strains of bacteria
- non-formulary (Dec 8, 2008); all orders for ticarcillin-clavulanate will be automatically interchanged to an equivalent dose of piperacillin-tazobactam

RECONSTITUTION AND STABILITY

- reconstituted solution should not be stored longer than 6 hours at room temperature or 24 hours in refrigerator
- for IV use: reconstitute each 3.1 g vial with 13 mL sterile water for injection to give a ticarcillin concentration of 200 mg/mL (= 3 g ticarcillin/15 mL)

COMPATIBILITY

- compatible with sterile water for injection, D5W, NS, LR
- compatible via Y-site with cyclosporine, diltiazem, fluconazole, heparin, insulin regular, meperidine, morphine, multivitamins, ondansetron, potassium chloride
- do not administer at same time as aminoglycosides due to in vitro inactivation of the aminoglycoside; space doses at least one hour apart
- do not mix with other drugs in the same container

ROUTES OF ADMINISTRATION

- IV intermittent
- dilute dose in 50 mL of compatible IV solution
- administer over 30 minutes

VH & HSC ADMINISTRATION POLICY

- A - Not to be administered by the direct IV route

NAME OF DRUG (cont)

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DOSAGE

Adults:

Moderate-severe infections: 3.1 g IV q4-6h

Dosage must be reduced in renal impairment:

<u>Creatinine Clearance (mL/min)</u>	<u>Dosage</u>
> 50	3.1 g q4-6h
30-50	3.1 g q6h
< 30	3.1 g q8h
Hemodialysis	3.1 g q12h
CAPD	3.1 g q12 h

POTENTIAL HAZARDS OF PARENTERAL ADMINISTRATION

- anaphylaxis, hypersensitivity reactions (rash, pruritis, urticaria, myalgia, drug fever, chills)
- thrombophlebitis

IMPORTANT IMPLICATIONS

- use with caution in patients with a history of allergic reactions to penicillins or cephalosporins
- common adverse effects include nausea, vomiting, diarrhea, headache
- if patient also receiving vancomycin via buretrol, use separate buretrol for administration of Timentin[®] to prevent precipitation
- elevated liver enzymes and serum creatinine have been reported
- contains 4.83 mmol sodium (4.83 mEq, 111 mg) per gram of Timentin
- when administered concomitantly with an aminoglycoside, space the doses at least one hour apart
- Timentin is partially dialysed; administer dose post dialysis