



REGIONAL ADULT PARENTERAL DRUG MONOGRAPH

GENERIC NAME
penicillin G sodium

Effective Date: Dec 2012

Revised Date: Jan 12 2022

CLASSIFICATION
Antibiotic

OTHER NAMES
Crystapen

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ADMINISTRATION POLICY:

IV Intermittent - May be administered by a nurse **MINI-BAG PLUS COMPATIBLE**

IM Injection - May be administered by a nurse

RECONSTITUTION/DILUTION/ADMINISTRATION:

Available as: 1 million unit and 5 million unit vials.

To Reconstitute:

Strength	Sterile Water	Final Volume	Final Concentration
1 MU**	1.8 mL*	2 mL	500,000 Units/mL
5 MU**	3.1 mL*	5 mL	1 MU**/mL

*Refer to package insert as volume of diluent may vary depending on manufacturer.

**MU = million units

IV Intermittent:

MINI-BAG PLUS COMPATIBLE

Dilute in at least 50 mL normal saline. Administer over 30 to 60 minutes.

IM Injection:

Administer deep IM into a large muscle (e.g. gluteus maximus). Multiple injection sites may be required depending on volume.

Maximum rate:

15 minutes

Maximum concentration:

IV: 100,000 units/mL

IM: 500,000 units/mL

DOSAGE:

Usual:

1 to 4 million units IV/IM every 4 to 6 hours

Maximum single dose:

5 million units

Maximum daily dose:

30 million units

STABILITY/COMPATIBILITY:

Stability of Reconstituted Solution: 24 hours at room temperature

Stability of Final Admixture: 24 hours at room temperature

Compatibility:

Compatible with normal saline, D5W, dextrose-saline combinations and Lactated Ringer

PRECAUTIONS, POTENTIAL ADVERSE REACTIONS:

- Contraindicated in patients allergic to penicillins
- Use cautiously in patients allergic to cephalosporins
- Hypersensitivity reactions, including anaphylaxis, rash, pruritus
- Sodium overload with high doses
- Convulsions after high doses, especially in renal insufficiency
- Local reactions including: phlebitis, pain

ADDITIONAL NOTES AND NURSING CONSIDERATIONS:

- Dosage reduction required in renal dysfunction.
- 1 million units penicillin G sodium yields 1.68 mmol (38.7 mg) sodium
- Elderly patients: High doses can cause delirium. Adjust dose based on creatinine clearance.