

Procaine Benzyl penicillin:

Class: Antibiotic

Indications: Treatment of moderately-severe infections due to *Treponema pallidum* and other penicillin G-sensitive microorganisms that are susceptible to low, but prolonged serum penicillin concentrations; anthrax due to *Bacillus anthracis* (postexposure) to reduce the incidence or progression of disease following exposure to aerolized *Bacillus anthracis*.

Available dosage form in the hospital: PROCAINE BEZYPENICILLIN 300000 IU VIAL, 400000 IU VIAL.

Dosage:

-Usual dose: Adults: I.M.:0.6-4.8 million units/day in divided doses every 12-24 hours.

-Anthrax:

-*Inhalational (postexposure prophylaxis):* I.M.: 1,200,000 units every 12 hours

Note: Overall treatment duration should be 60 days. Available safety data suggest continued administration of penicillin G procaine for longer than 2 weeks may incur additional risk of adverse reactions. Clinicians may consider switching to effective alternative treatment for completion of therapy beyond 2 weeks.

-*Cutaneous (treatment):* I.M.: 600,000-1,200,000 units/day; alternative therapy is recommended in severe cutaneous or other forms of anthrax infection

-Endocarditis caused by susceptible viridans *Streptococcus* (when used in conjunction with an aminoglycoside): I.M.: 1.2 million units every 6 hours for 2-4 weeks

-Gonorrhea (uncomplicated): 4.8 million units as a single dose divided in 2 sites given 30 minutes after probenecid 1 g orally.

-Neurosyphilis: I.M.: 2.4 million units/day with 500 mg probenecid by mouth 4 times/day for 10-14 days; **Note: penicillin G aqueous I.V. is the preferred agent**

-Whipple's disease: I.M.: 1.2 million units/day (with streptomycin) for 10-14 days, followed by oral trimethoprim/sulfamethoxazole or doxycycline for 1 year

Renal Impairment:

Cl_{cr} 10-30 mL/minute: Administer every 8-12 hours.

Cl_{cr} <10 mL/minute: Administer every 12-18 hours.



Moderately dialyzable (20% to 50%)

Common side effect:

CNS stimulation, confusion, drowsiness, seizure, Hemolytic anemia, neutropenia, positive Coombs' reaction. Local: Pain at injection site

Pregnancy Risk Factor: B