

Penicillin G Sodium

【IPG3】 Penicillin G 300 萬 U/Vial

ATC Code : J01CE01

中文名： 苄基青黴素鈉注射液用粉 300 萬單位 《永豐》

適應症： 葡萄球菌、鏈球菌、肺炎雙球菌、腦膜炎球菌及其他具感受性細菌引起之感染症。

藥理分類： **Antibiotic, Penicillin.**

用法用量： **Administration: IV, IM**

IM: deep injection in the upper outer quadrant of the buttock.

IV: Intermittent IV: over 15 to 30 minutes. Dose >10 million units: IV slowly.

**Indications and dosage regimens:**

**Adult:** MU = *million units*

Usual dosage range: 12 to 24 MU/day, divided every 4 to 6 hours.

**Actinomyces species: IV:**

**Cervicofacial disease:** 1 to 6 MU /day, divided every 4 to 6 hours.

**Thoracic and abdominal disease:** 10 to 20 MU/day, divided every 4 to 6 hours.

**Clostridium species: IV:**

**Botulism, gas gangrene, tetanus:** 20 MU /day, divided every 4 to 6 hours.

**Skin and soft tissue necrotizing infections (off-label use):** 2 to 4 MU every 4 to 6 hours; use in combination with clindamycin and continue until further debridement is not necessary.

**Cutibacterium acnes infection of deep-brain stimulation hardware (off-label use): IV:**

24 MU /day in divided doses every 4 hours.

**Diphtheria (adjunctive therapy to antitoxin and for prevention of carrier state): IV:**

2 to 3 MU /day, divided every 4 to 6 hours for 10 to 12 days.

**Anthrax: IV:**

Minimum 8 MU /day in divided doses every 6 hours.

**Endocarditis, treatment: IV:**

**Enterococcus:** 18 to 30 MU /day as continuous infusion or in divided doses every 4 hours with concomitant streptomycin.

**Erysipelothrix rhusiopathiae:** 12 to 20 MU /day, divided every 4 to 6 hours for 4 to 6 weeks

**Listeria monocytogenes:** 15 to 20 MU /day, divided every 4 to 6 hours for 4 weeks

**Viridans group streptococcus and S. bovis:**

**Native valve:** 12 to 24 MU /day as continuous infusion or in divided doses every 6 hours for 2 weeks with concomitant gentamicin.

**Prosthetic valve:** 24 MU /day as continuous infusion or in divided doses every 4 or 6 hours for 6 weeks (with or without concomitant gentamicin for the first 2 weeks).

**Meningitis, bacterial: IV:**

4 MU every 4 hours. Meningitis due to Listeria, combination with an aminoglycoside.

**Fusospirochetosis** (including Vincent disease): IV:

5 to 10 MU /day, divided every 4 to 6 hours.

**Neurosyphilis**(including ocular syphilis): IV:

18 to 24 MU /day, divided every 4 hours for 10 to 14 days.

**Note:** For late neurosyphilis (syphilis exposure >1 year ago), penicillin G benzathine may be used to complete a 3-week treatment course following initial IV penicillin G aqueous therapy.

**Pasteurella** infections (bacteremia, meningitis): IV:

4 to 6 MU /day, divided every 4 to 6 hours for 2 weeks.

**Streptococcus** infections: IV:

**Group B streptococcus, maternal** prophylaxis for prevention of neonatal disease:

5 MU as a single dose at the onset of labor or prelabor rupture of membranes, then 3 MU Q4H until delivery.

**Skin infections:**

2 to 4 MU every 4 to 6 hours; combined with clindamycin for necrotizing infections.

**Group A streptococcus** infection, severe:

3 to 4 MU Q4H with clindamycin for 10 to 14 days.

**Streptococcal pneumonia:** IV:

12 to 24 MU /day, divided every 4 to 6 hours.

#### **Pediatric:**

General dosing, susceptible infection: Infants, Children, and Adolescents:

**Mild to moderate infection:**

100,000 to 150,000 units/kg/day in divided doses every 6 hours;  
maximum daily dose: 8 MU/day.

**Severe infections:**

200,000 to 300,000 units/kg/day in divided doses every 4 to 6 hours; maximum daily dose: 24 million units/day;

Note: Use highest dose in range for CNS infections.

**不良反應：** 噁心、嘔吐、腹瀉、過敏反應。

**交互作用：** ● **Probenecid** : ↑ penicillin level.

● **Acemetacin** : ↑ the serum concentration of Penicillin.

● **Methotrexate**: ↑ the serum concentration of **Methotrexate**.

**注意事項：** 1. 氣喘或過敏者須謹慎使用。  
2. 本品含鈉離子，須監測血液中電解質。  
3. 高劑量(>10 MU)時需緩慢施打。

**懷孕期：** 1. Maternal use of penicillins has generally not resulted in an increased risk of adverse fetal effects.  
2. Drug of choice for treatment of syphilis during pregnancy and drug of choice for the prevention of early-onset Group B Streptococcal disease in newborns

**哺乳期：** 1. Present in breast milk. Caution be exercised.  
2. Compatible with breastfeeding when used in usual recommended doses.