

Meropenem Trihydrate

【IMEPM】Melopen® 0.5g/Vial

ATC Code : J01DH02

中文名：美保平乾粉注射劑 《意欣國際》

適應症：對 Meropenem 具有感受性之細菌引起之感染症。

藥理分類：Antibiotic, Carbapenem.

用法用量：Administration:

- IV infusion over 30 minutes. (仿單)
- IV: Administer IV infusion over 15 to 30 minutes; (UpToDate, 2022)
- IV bolus injection (5 to 20 mL) over 3 to 5 minutes. (UpToDate, 2022)

Dosage regimen: (仿單)

使用本品時，給藥開始後第三天應判斷是否必要繼續給藥，停藥或改用更適宜的其它藥物。本品的使用期間以 14 天為原則。

成人：

1 天 0.5~1g Meropenem(效價)，分 2~3 次投與，經 30

分鐘以上靜脈點滴注射。根據年齡和症狀可調整劑量，對於嚴重患者或難治感染患者，每天劑量可增至 2g(效價)。

兒童：

一天 30-60mg(效價)/kg，分 3 次投與，經 30 分鐘以上靜脈點滴注射。根據年齡和症狀，可調整劑量，對於嚴重或是難治性感染兒童患者，每天劑量可增至 120mg(效價)/kg。但是不能超過成人的一天最大劑量 2g。

Dosing: Kidney Impairment: Adult

CrCl (mL/minute)	If the usual recommended dose is 1 g every 8 hours ^c	If the usual recommended dose is 2 g every 8 hours ^c
30~130	No dosage adjustment necessary	No dosage adjustment necessary
25~50	1g Q12H	2g Q12H
10~25	0.5g Q12H	1g Q12H
<10	0.5g Q24H	1g Q24H
Hemodialysis, (thrice weekly) ^d	0.5g Q24H	1g Q24H
Peritoneal dialysis	0.5g Q24H	1g Q24H

^C: Dose may be administered using the traditional intermittent infusion method (over 30 minutes) or extended infusion method (over 3 hours).

^D: Dialyzable (38% over a 4-hour session). When scheduled dose falls on a dialysis day, administer after dialysis.

From Micromedex 2021:

Adult--

Bacteremia associated with intravascular line:

- 1 g IV every 8 hours .

Bacterial meningitis:

- 6 g/day IV divided every 8 hours .

Febrile neutropenia:

- 1 gram IV every 8 hours for at least 7 days (study dosage).

Hospital acquired pneumonia:

- 1 g IV Q8H x 7 days; may administer via **extended infusion**[※].

※**Extended infusion administration:** Administer over 3 hours.

Note: Must consider meropenem's limited room temperature stability if using extended infusions.

Infection of skin and/or subcutaneous tissue, Complicated:

- 500 mg IV Q8H; increase to 1 g IV Q8H for infections caused by Pseudomonas aeruginosa; infuse over 15 to 30 minutes or administer IV bolus injection (5 to 20 mL) over 3 to 5 minutes.

Infectious disease of abdomen, Complicated:

- 1 g IV every 8 hours; infuse over 15 to 30 minutes or administer IV bolus injection (5 to 20 mL) over 3 to 5 minutes.

Pediatric dosing--**Bacterial meningitis**

- (> 28 days) 120 mg/kg/day IV divided every 8 hours; consider adding aminoglycoside for Pseudomonas aeruginosa.
- (>=3 months) 40 mg/kg IV infusion every 8 hours; MAX 2 g IV every 8 hours.

Febrile neutropenia

- 20 mg/kg IV every 8 hours for at least 7 days (study dosage).

Infection of skin and/or subcutaneous tissue, Complicated:

- (>=3 months) 10 mg/kg IV every 8 hours; increase to 20 mg/kg IV every 8 hours for infections caused by Pseudomonas aeruginosa; MAX dose 500 mg IV every 8 hours OR 1 g IV every 8 hours for infections caused by Pseudomonas aeruginosa.
- (>=3 months, > 50 kg) 500 mg IV every 8 hours; increase to 1 g IV every 8 hours for infections caused by Pseudomonas aeruginosa.

Infectious disease of abdomen, Complicated:

- (Younger than 3 months, gestational age less than 32 weeks and postnatal age less than 2 weeks) 20 mg/kg IV every 12 hours; infuse over 30 minutes.
- (Younger than 3 months, gestational age less than 32 weeks and postnatal age 2 weeks and older, or gestational age 32 weeks or older and postnatal age less than 2 weeks) 20 mg/kg IV every 8 hours; infuse over 30 minutes.
- (Younger than 3 months, gestational age 32 weeks or older and postnatal age 2 weeks or older) 30 mg/kg IV every 8 hours; infuse over 30 minutes.
- (3 months or older) 20 mg/kg IV every 8 hours; MAX dose 1 g IV every 8 hours; infuse over 15 to 30 minutes or administer IV bolus injection (5 to 20 mL) over 3 to 5 minutes.
- (3 months or older, over 50 kg) 1 g IV every 8 hours; infuse over 15 to 30 minutes or administer IV bolus injection (5 to 20 mL) over 3 to 5 minutes.

不良反應： 注射部位疼痛、噁心、嘔吐、頭痛。

注意事項： 1. 只能使用點滴靜脈注射。
2. 腎功能不全的患者($Cl_{cr} \leq 50 \text{ mL/min}$)，投予的劑量及投藥間隔時間須調整。
3. 與 valproic acid 併用時，會降低 valproic acid 血中濃度，不可併用。

交互作用：

- Valproic acid：↓ the serum concentration of Valproate Products.
- BCG (Intravesical)：↓ the therapeutic effect of BCG (Intravesical).

懷 孕 期： 判斷治療的有益性超過危險性時，才可用於妊娠期婦女或有可能妊娠的婦女。尚未確立妊娠期給藥的安全性。

授 乳 期： 給藥期間應避免哺乳。在研究報告中，發現本品會分泌至人類母乳中。

調 製： 以 NS 溶解使用，不得使用注射用水。可用 100ml 以上之 NS 稀釋，經 30 分鐘以上靜脈點滴給藥。

安 定 性： 用 NS 溶解後，室溫下應於 6 小時以內使用，在 5°C 下應於 24 小時以內使用。

稀釋後效價： 在 25±2℃ 的溫度下，把本藥品 0.5g/vial 溶解在一般輸注液時，本藥品的殘存效價維持在 90% 以上的時間如下表所示。

輸注液		殘存效價維持在 90% 以上的時間 (hr)
名稱	容量 (mL)	
生理食鹽水	10	6
	100	24
5% 葡萄糖注射液	10	1
	100	3
5% Xylitol 注射液	500	3
5% Fructose 注射液	500	3
Hartmann's 輸液	500	3
Potacol-R 注射液	500	6

儲 存： 25 °C 下儲存。