

Dopamine HCl

【IDOPA】Dopamin® 200mg/5mL/Amp

ATC Code : C01CA04

中文名：得保命注射液 «榮民製藥»

適應症：休克症候群及心臟衰竭。

藥理分類：**Adrenergic Agonist; Inotropic Agent.**

用法用量：**Administration:** Usually administer by IV infusion.

May be administered by intraosseous infusion when IV infusion is not possible.

**Indications and dosage regimens:**

**Adult:**

**Hemodynamic support: IV infusion:**

- 2 to 20 mcg/kg/minute; titrate to desired response (maximum: 50 mcg/kg/min; however, doses >20 mcg/kg/min may not have a beneficial effect on blood pressure and may increase the risk of tachyarrhythmias);
- infusion may be gradually increased by 5 to 10 mcg/kg/min increments until optimal response is obtained.

**Cardiogenic shock (off-label dose):** IV: 0.5 to 20 mcg/kg/minute

**Inotropic support in advanced heart failure:** IV infusion: 5 to 15 mcg/kg/minute; lower doses are preferred.

***Hemodynamic effects of dopamine are dose dependent (however, this is relative and there is overlap of clinical effects between dosing ranges):***

**Low-dose:** 1 to 5 mcg/kg/min (**renal dose**)

increased renal blood flow and urine output.

**Note:** The use of low-dose dopamine to prevent or treat acute kidney injury is not recommended (*KDIGO 2012*).

**Intermediate-dose:** 5 to 10 mcg/kg/minute (**β1&β2**)

increased renal blood flow, heart rate, cardiac contractility, and cardiac output

**High-dose:** >10 mcg/kg/minute (**α**)

α-adrenergic effects begin to predominate, resulting in vasoconstriction, increased blood pressure, in addition to increased heart rate, cardiac contractility, and cardiac output due to beta-adrenergic effects.

**Pediatric**

**Hemodynamic support:** Infants, Children, and Adolescents: Continuous IV or intraosseous infusion: 2 to 20 mcg/kg/minute, titrate gradually by 5- to 10-mcg/kg/minute increments until optimal response is obtained (*PALS [Kleinman 2010]*)

**The hemodynamic effects of dopamine are dose-dependent:**

**Low dosage:** 1 to 5 mcg/kg/minute, increased renal blood flow and urine output

**Intermediate dosage:** 5 to 15 mcg/kg/minute, increased renal blood flow, heart rate, cardiac contractility, cardiac output, and blood pressure

**High dosage:** >15 mcg/kg/minute, α-adrenergic effects begin to predominate, vasoconstriction, increased blood pressure. *Source: UpToDate 2020*

不良反應：異位性心跳、噁心、嘔吐、心跳加快、心絞痛、心悸、呼吸困難、頭痛、低血壓和血管收縮。

- 注意事項： 1、腎上腺素腫瘤患者禁用。  
2、Dopamin 200 mg/5mL/Amp 為強效藥物，必須稀釋後方可使用，且不可添加任何鹼性稀釋液。  
3、使用高劑量時，會造成腎血流不足而形成 oligemia（血量不足）。
- 懷 孕 期： 未知 dopamine 是否會通過胎盤障壁。 只有在當孕婦使用 dopamine 的利益高於潛在危險時，才可以使用。
- 授 乳 期： 未知 dopamine 是否會分泌至人類乳汁。因為許多藥物會分泌至人類乳汁中，當投與 dopamine 至授乳婦應小心。
- 相容輸注液： D5W、NS、Dextrose 5% in Lactated Ringer's、Dextrose 5% in NaCl 0.45 or 0.9%、Lactated Ringer's。  
(注意！dopamine 與 sodium bicarbonate 5%不相容。)
- 儲 存： 避光儲存。