

# Vasodilators MCQ.

1. Which of the following drugs is a **vasodilator** commonly used in treating hypertension?
  - A) Hydralazine
  - B) Furosemide
  - C) Metoprolol
  - D) Lisinopril
  
2. What is the main side effect of minoxidil?
  - A) Hypertrichosis
  - B) Hypokalemia
  - C) Bradycardia
  - D) none of the above
  
3. Which vasodilator acts by increasing the production of nitric oxide (as a main action)?
  - A) Hydralazine
  - B) Minoxidil
  - C) Nitroprusside
  - D) Fenoldopam
  
4. Which drug is a **dopamine 1 receptor agonist** and used as a vasodilator?
  - A) Hydralazine
  - B) Minoxidil
  - C) Nitroprusside
  - D) Fenoldopam
  
5. How do vasodilators affect plasma renin levels?
  - A) Increase plasma renin levels
  - B) Decrease plasma renin levels
  - C) Have no effect on plasma renin levels
  - D) The effect varies depending on the specific vasodilator.

6. Which combination is commonly used to block the side effects of vasodilators?
- A) Diuretics and ACE inhibitors
  - B) Beta blockers and calcium channel blockers
  - C) Diuretics and beta blockers
  - D) ACE inhibitors and calcium channel blockers
7. What is the main side effect of hydralazine **at high doses**?
- A) Lupus-like syndrome
  - B) Hypertrichosis
  - C) Hypokalemia
  - D) Bradycardia
8. Which vasodilator is commonly used in controlling blood pressure in pregnancy-induced hypertension?
- A) Hydralazine
  - B) Minoxidil
  - C) Nitroprusside
  - D) Fenoldopam
9. What is the main mechanism of action of minoxidil?
- A) Activation of calcium channels
  - B) Increased efflux of potassium ions
  - C) Production of nitric oxide
  - D) Agonism of dopamine 1 receptors
10. Which vasodilator is commonly used in emergency hypertension?
- A) Hydralazine
  - B) Minoxidil
  - C) Nitroprusside
  - D) Fenoldopam
11. What is the main side effect of nitroprusside? (**Wrong Question : canceled**)
- A) ~~Hypertrichosis~~
  - B) ~~Hypokalemia~~
  - C) ~~Reflex tachycardia~~

- D) ~~Lupus-like syndrome~~

12. Which vasodilator is suitable for patients with kidney problems and emergency hypertension?

- A) Hydralazine
- B) Minoxidil
- C) Nitroprusside
- D) Fenoldopam

13. What is the effect of hydralazine on intracellular calcium levels?

- A) Increases intracellular calcium levels
- B) Decreases intracellular calcium levels
- C) Has no effect on intracellular calcium levels
- D) The effect varies depending on the individual

14. What is the primary effect of minoxidil on arteries?

- A) Venous dilation
- B) Arterial dilation
- C) Increased heart rate
- D) Sodium and water retention

15. Which vasodilator is associated with the side effect of hypertrichosis?

- A) Hydralazine
- B) Minoxidil
- C) Nitroprusside
- D) Fenoldopam

16. How do vasodilators affect myocardial contractility?

- A) Increase myocardial contractility
- B) Decrease myocardial contractility
- C) Have no effect on myocardial contractility
- D) The effect varies depending on the specific vasodilator

17. Which combination is commonly used to block the side effects of **minoxidil**?
- A) Diuretics and ACE inhibitors
  - B) Beta blockers and calcium channel blockers
  - C) Diuretics and beta blockers
  - D) ACE inhibitors and calcium channel blockers
18. What is the primary effect of **nitroprusside** on veins and arteries?
- A) Venous dilation
  - B) Arterial dilation
  - C) Increased heart rate
  - D) Sodium and water retention
  - E) A+B
19. Which vasodilator is suitable for patients with **renal insufficiency and heart failure**?
- A) Hydralazine
  - B) Minoxidil
  - C) Nitroprusside
  - D) Fenoldopam
20. What is the primary effect of fenoldopam on arteries?
- A) Venous dilation
  - B) Arterial dilation
  - C) Increased heart rate
  - D) Sodium and water retention

# Answers

1. A) Hydralazine
2. A) Hypertrichosis
3. C) Nitroprusside
4. D) Fenoldopam
5. A) Increase plasma renin levels
6. C) Diuretics and beta blockers
7. A) Lupus-like syndrome
8. A) Hydralazine
9. B) Increased efflux of potassium ions
10. C) Nitroprusside
11. C) Reflex tachycardia
12. D) Fenoldopam
13. B) Decreases intracellular calcium levels
14. B) Arterial dilation
15. B) Minoxidil
16. A) Increase myocardial contractility
17. C) Diuretics and beta blockers
18. E) **A+B**
19. D) **Fenoldopam**
20. B) Arterial dilation

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V 2: Q 18 and Q19

