

MSN-FNP Cardiovascular Exam Questions with Correct Answers

Which of the following beta-blockers is cardio selective?

- A. Nadolol
- B. Propranolol
- C. Atenolol
- D. Penbutolol - ANSWER C. Atenolol

Explanation: Of the beta blockers listed, atenolol is the most cardioselective.

Cardioselective refers to the ability to affect predominately beta 1 receptors rather than beta 2 receptors. Beta 1 receptors are located mainly in the heart and mediate the sympathetic nervous system's direct effects on the heart. Beta 2 receptors are located predominately in the peripheral vascular system and other organs like the lungs.

Although all beta-blockers affect beta receptors, some affect subsets of receptors differently. This has a significant consequences in terms of side effects, as beta-blockers are known to cause extra-cardiac symptoms such as worsened bronchospasms in asthmatics.

Nadolol, propranolol, and penbutolol are non-selective beta-blocker

For the initial pharmacological treatment of essential hypertension, which of the following statements is true?

- A. Diuretics should be the first consideration because of their effectiveness, cost, and low side-effect profile.
- B. ACE inhibitors speed the progression of moderately increased albuminuria independent of blood pressure control in diabetic patients.
- C. Alpha-blockers are of particular benefit for the treatment of hypertension in patients with ischemic cardiomyopathy.
- D. Angiotensin receptor blockers should not be used in place of ACE inhibitors in patients who develop a cough after initiating an ACE inhibitor. - ANSWER A. Diuretics should be the first considered because of their effectiveness, cost, and low side-effect profile.

Explanation: There is no evidence that alpha-blockers are of particular benefit for the treatment of hypertension in patients with ischemic cardiomyopathy. The JNC 8 guidelines state that in the general non-black population, including those with diabetes, initial antihypertensive treatment should include a thiazide-type diuretic, calcium channel blocker (CCB), angiotensin-converting enzyme inhibitor (ACEI) or angiotensin receptor blocker (ARB). In the general black population, including those with diabetes, initial antihypertensive treatment should include a thiazide type diuretic or CCB. Initial treatment with a thiazide-type diuretic was more effective than CCB or an ACEI.

Ky Surface Card Test Study Guide

Michael Hoelscher



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web oxidation reduction redox reactions oxidation $\text{Cu} \rightarrow \text{Cu}^{2+} + 2\text{e}^{-}$ reduction $\text{MnO}_4^{-} + 4\text{H}^{+} + 3\text{e}^{-} \rightarrow \text{MnO}_2 + 2\text{H}_2\text{O}$ l when the half reactions listed above are combined into a balanced chemical equation the ratio of the coefficients $\text{Cu} : \text{MnO}_4^{-}$ is $4 : 3$ is

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web when balancing equations for redox reactions occurring in acidic solution it is often necessary to add H^+ ions or the H_2O pair to fully balance the equation in this video we ll walk through this process for the reaction between dichromate $\text{Cr}_2\text{O}_7^{2-}$ and chloride Cl^- ions in acidic solution created by jay

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web balance each half reaction in basic solution 4 5 6 7 $\text{Cr}_2\text{O}_7^{2-} + \text{NO}_2 \rightarrow \text{NO}_3^- + \text{MnO}_2$ $\text{Cr}_2\text{O}_7^{2-} + \text{NO}_3^- + \text{SO}_2 \rightarrow \text{Mn}_2\text{O}_3$ balance each redox reaction in acid solution using the half reaction method 8 $\text{H}_2\text{O}_2 + \text{Cr}_2\text{O}_7^{2-} \rightarrow \text{TeO}_3^{2-} + \text{N}_2\text{O}_4$ $\text{O}_2 + \text{Cr}_3^{+} \rightarrow \text{TeO}_4^{4-}$ 11 $\text{PbO}_2 + \text{IO}_2 \rightarrow \text{Pb}^{2+}$ 12 $\text{AsO}_3^{3-} + \text{IO}_3^- \rightarrow \text{H}_2\text{AsO}_4^-$

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web practice exercises balance the following equations of redox reactions assign oxidation numbers to all elements in the reaction separate the redox reaction into two half reactions balance the atoms in each half reaction add the two half reactions together and cancel out common terms

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web aug 29 2023 some points to remember when balancing redox reactions the equation is separated into two half equations one for oxidation and one for reduction the equation is balanced by adjusting coefficients and adding H_2O H^+ and e^- in this order balance the atoms in the equation apart from o and h

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web in the redox equation below that occurs in our stomach which of the following pairs identifies the reducing and oxidizing agents respectively $\text{C}_6\text{H}_8\text{O}_6 + 2\text{HNO}_2 \rightarrow \text{C}_6\text{H}_6\text{O}_6 + 2\text{H}_2\text{O} + 2\text{NO}$ choose 1 answer $\text{C}_6\text{H}_8\text{O}_6$ and NO_2 a $\text{C}_6\text{H}_8\text{O}_6$ and NO b NO_2 and $\text{C}_6\text{H}_8\text{O}_6$ c $\text{C}_6\text{H}_6\text{O}_6$ and NO_2 d $\text{C}_6\text{H}_6\text{O}_6$ and NO

2 and c 6 h 8 o 6 b no 2 and c 6 h 8 o 6 h and no 2 c h and