Medical Terminology

HTN Drug Project

Hypertension Treatment: Comparison and Contrast of Drug Classes

Directions: You (and one partner, optional) will create a project to compare and contrast 8 different drug classes used in treating hypertension (HTN or high blood pressure). Your project can be a flip-book, Google slides, or a PowerPoint Presentation. You will compare and contrast the following 8 drug classes:

1. Thiazide diuretics
2. Loop Diuretics
3. Angiotensin Converting Enzyme (ACE) inhibitors
4. Angiotensin Receptor Blockers (ARBs)
5. Beta Blockers (including both B1 selective and non-selective)
6. Calcium channel blockers (including dihydropyridine and non dihydropyridine CCBs)
7. Alpha blockers
8. Direct vasodilators and others

You will research the drug classes on the internet and include the following information for each drug class. You MUST include your references. The citation will include the full URL address and the date accessed to avoid plagiarism:

1. The name of the drug class as listed above (numbers 1 though 8) will be the title for each page or slice
2. MOA: or mechanism of action, which describes how the drug works to decrease blood pressure. Be specific and do not simply cut and paste.
3. Side effects: A list and brief explanation of the major AND most common side effects of the drug class (at least three side effects and describe what they are, x. somnolence – this is when the patient experiences excessive drowsiness and is tired al the time).
4. Names of 4 different medications in the drug class used to treat hypertension. (generics are lower case, and Brand Name Drugs are capitalized with a registered trademark using ®) Use open parenthesis ( then the capital letter R, then close parenthesis ) with no spaces to make ®
5. Dosage: dosage forms, dose in mg, the route of administration, and frequency used to treat hypertension (ex. metoprolol succinate 50mg tablet by mouth daily, hydrochlorothiazide 25mg by mouth every morning)