PTCE DUMP SHEET

Medications organ systems cont.



Table showing common antidiabetic combinations

Drugs in combination	Brand names
Sitagliptin and metformin	Janumet, Janumet XR
Canagliflozin and metformin	Invokamet
Empagliflozin and linagliptin	Glyxambi
Empagliflozin and metformin	Synjardy, Synjardy XR
Metformin and saxagliptin	Kombiglyze XR
Glyburide and metformin	Glucovance
Empagliflozin, linagliptin, and metformin	Trijardy XR

Thyroid hormone

Synthetic T3, also known as liothyronine (Triostat, Cytomel,) and synthetic T4, also known as levothyroxine (Synthroid, Unithroid, Levoxyl). Iron, calcium, and antacids can interfere with the absorption of levothyroxine.

· Gastrointestinal drugs

omeprazole (Prilosec), pantoprazole (Protonix), esomeprazole (Nexium) and lansoprazole (Prevacid), ranitidine (Zantac), famotidine (Pepcid), and cimetidine (Tagamet), loperamide (Imodium A-D) and atropine plus diphenoxylate (Lomotil), polyethylene glycol (MiraLAX) and magnesium hydroxide (Milk of Magnesia), docusate (Colace), psyllium (Metamucil), bisacodyl (Dulcolax) and senna (Fletcher's Laxative, Senokot).

Sedatives - hypnotics

zolpidem (Ambien), eszopiclone (Lunesta), zaleplon (Sonata), ramelteon (Rozerem), suvorexant (Belsomra), phenobarbital (Sezaby), amobarbital (Amytal sodium), diazepam (Valium), alprazolam (Xanax), triazolam (Halcion), lorazepam (Ativan), clonazepam (Klonopin),elprazolam (Prosom), flurazepam (Dalmane), temazepam (Restoril) and midazolam (Versed). Buspirone (BuSpar, Vanspar) - anxiolytic.

Adverse effects

· ACE inhibitors and ARBs

fetal anomalies, fetal death

· Aldosterone antagonists

hyperkalemia, erectile dysfunction and gynecomastia.

· Alpha blockers

orthostatic hypotension

ACE inhibitors

dry cough

· Beta blockers

mask symptoms of hypoglycemia

Diuretics

electrolyte imbalances

Statins

myalgia, elevation of liver enzymes

Fibrates

gallstones

Aminoglycosides

Nephrotoxicity, muscle weakness and paralysis, hearing loss.

• Fluoroquinolones:

Tendinitis, bone and cartilage anomalies like Achilles tendon rupture, prolongation of QTc, pseudomembranous colitis, photosensitivity.

Chloramphenicol

Aplastic anemia, "gray baby" syndrome due to severe inhibition of red blood cell production in the bone marrow.

Macrolides:

Hypersensitivity reactions, erythromycin and clarithromycin have highest risk of QTc prolongation, cholestatic jaundice, tinnitus and deafness; clarithromycin and erythromycin are potent inhibitors of liver enzymes cyt P450.

. Colistin and Polymyxin B

Nephrotoxicity

Adverse effects

Tetracyclines

Yellowing of teeth, dizziness, vertigo, pseudomembranous colitis, photosensitivity, fatty liver, risk of esophageal ulcerations

· Trimethoprim plus sulfamethoxazole

Stevens-Johnson syndrome, crystalluria, kernicterus (severe jaundice in neonates), renal failure, sulfa allergies.

Metronidazole

Neuropathy, headache, seizures, alcohol withdrawal syndrome with severe nausea, vomiting, dizziness, sweating, etc when taken with alcohol.

Clindamycin

Pseudomembranous colitis, esophageal ulcers

Imipenem

Seizures

Cephalosporins

Pseudomembranous colitis, hypersensitivity reactions, leukopenia, thrombocytopenia, Coombs positive hemolytic anemia

Penicillins

Hypersensitivity reactions, rashes, anaphylaxis, urticaria, angioedema, serum sickness, exfoliative dermatitis, seizures, nephritis, pseudomembranous colitis, Coombs positive hemolytic anemia, leukopenia, thrombocytopenia. Patients who are allergic to penicillin may show 2-10% cross reactivity to cephalosporins.

Vancomycin

Hypersensitivity reactions like rash, fever, neutropenia, phlebitis, and "red man" syndrome due to histamine release on rapid intravenous infusion.

· Antipsychotics that may prolong QTc

They include thioridazine, haloperidol, olanzapine, risperidone, and ziprasidone. That may precipitate cardiac arrest and arrhythmias.