Avoid Liability: Know Your Patients’ Medications & Their Impact on Dental Treatment
Hosted by the
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No. 1  ATORVASTATIN (generic)
- HMG-CoA reductase Inhibitor
- Decrease serum total and LDL cholesterol
- grapefruit juice interactions
- Lipitor®
- Similar medications:
  - rosuvastatin (Crestor®)
  - lovastatin (Mevacor®, Altoprev®)
  - simvastatin (Zocor®)-cheaper
  - pravastatin (Pravachol®)
  - pitavastatin (Livalo®)
  - fluvastatin (Lescol®)
- possible side effects of statins
  - muscle weakness
  - increased blood glucose or HbA1c
  - decreased cognitive ability-questionable
- CONTRAINDIANTED IN PREGNANCY AND BREAST FEEDING
- Do statins influence pulpal morphology?
- New cholesterol lowering medications-expensive
  - PCSK9 inhibitors-mechanism
    - alirocumab (Praluent®) –Sanofi/Regneron
    - evolocumab (Repatha®)-Amgen
No. 2  **LISINOPRIL** (generic)
- Antihypertensive Medication Compliance
- Zestril®, Prinivil®
- antihypertensive sometime combined with medications to treat heart failure
- **ACE** (Angiotensin Converting Enzyme) inhibitor (**ACEi**)
- Dental Implications
  - Orthostatic (postural) hypotension-**watch out**!
  - Scalded mouth syndrome
  - Non-productive cough
  - NSAID interaction with long-term use
  - Angioedema
- **Other ACE inhibitors**
  - benazepril (Lotensin®)
  - captopril (Capoten®)
  - enalapril (Vasotec®, Epaned®)
  - fosinopril (Monopril®)
  - moexipril (Univasc®)
  - pirindopril (Aceon®, Coversyl®)
  - quinapril (Accupril®)
  - trandolapril (Mavik®)
  - Tekturna ® (aliskiren)-direct renin inhibitor

No. 3  **ALBUTEROL** (generic)
- Beta 2 receptor agonist
- bronchodilator (relaxes muscles in the lungs)
- asthma, COPD
- prevention of exercise-induced bronchospasm
- **use caution** with aspirin/NSAIDs in some patients
- Ventolin HFA®, Proair HFA®
- **ADVAIR DISCUS®**
  - fluticasone and salmeterol
  - maintenance treatment of asthma
  - no problems with vasoconstrictor
  - oral candidiasis/aspergillus niger
- **FLUCONAZOLE** (generic)
  - oral antifungal
  - Diflucan®
  - 100 mg BID first day and 100 mg/day for 13 days
  - contraindicated with patients taking clopidogrel (Plavix®)
No. 4  **LEVOTHYROXINE** (generic)
- Synthroid®
- replacement therapy (hypothyroidism)
  - incidence is about 5% in the U. S.
  - women 9x more likely than men
  - subclinical hypothyroidism
- local anesthetic with vasoconstrictor is **NOT** contraindicated
- Fluoride is **NOT** contraindicated with levothyroxine

No. 5  **AMLODIPINE BESYLATE** (generic)
- calcium channel blocker
- antihypertensive, angina pectoris
- gingival hyperplasia
- Norvasc®
- Other calcium channel blockers
  - diltiazem(Cardizem®, Tiazac®)
  - felodipine (Plendil®)
  - nifedipine (Adalat®, Procardia®)
  - verapamil (Covera-HS®, VerelanPM®, Calan)
  - nicardipine (Cardene®)
- **clarithromycin interaction-could be fatal**

No. 6  **GABAPENTIN** (generic)
- Neurontin®
- analgesic for neuropathic pain
  - fibromyalgia
  - diabetic neuropathy
  - post-herpetic neuropathy
- abuse potential (may enhance the abuse and overdose of opioids)

No. 7  **OMEPRAZOLE** (generic)
- hydrogen ion pump inhibitor (PPI)
- **GastroEsophageal Reflux Disease (GERD)**
- possible side effects related to altered stomach Ph
  - increased risk for hip, wrist, and spine fracture
  - increased risk for Clostridium difficile
  - decreased serum magnesium
  - possible Vitamin B₁₂ deficiency
similar medications
- esomeprazole (Nexium®)
- lansoprazole (Prevacid®)
- dexlansoprazole (Dexilent®, Kapidex®)
- rabeprazole (Aciphex®)
- pantoprazole (Protonix®)
- Zegarid®-a rapid release form of omeprazole

No. 8  **METFORMIN** (generic)
- first line drug for type II diabetes mellitus (along with diet and exercise)
- appoint in the morning
- Glucophage®
- other uses

No. 9  **LOSARTAN POTASSIUM** (generic)
- Angiotensin Receptor Blocker (ARB)
- antihypertensive, reduce the risk of stroke, and slow the progression of kidney disease in patients with diabetes
- Dental Implications
  - Orthostatic hypotension
  - Scalded mouth syndrome
  - Non-productive cough (less than ACE Inhibitors)
  - NSAID interaction with long-term use
- Other popular ARBs
  - candesartan (Atacand®)
  - irbesartan (Avapro®)
  - valsartan (Diovan®)
  - olmesartan (Benicar®)

No. 10  **HYDROCODONE WITH ACETAMINOPHEN** (generic)
- opiate & non-opiate analgesic
- addictive
- second most abused drug by general dentists
- Schedule II (as of **October 6, 2014**)
- opiate metabolism-CYP2D6
- genetic differences
  - NO CODEINE in CHILDREN -see AAP & FDA
- most common side effect of opiates: Nausea and vomiting
- Hydrocodone is more efficacious than codeine as an analgesic but causes less nausea & vomiting
- opiate-induced N/V occurs in CRTZ located in medulla
- **analgesic efficacy is not related to N/V**
- phenothiazines will block the CRTZ
  - drug interactions between phenothiazines and opiates

**Rx** Hydrocodone with acetaminophen 7.5/325 mg
Disp. Twelve (12) tablets
Sig: Take one tablet by mouth every four to six hours as needed for the relief of pain.
Do not exceed six tablets in 24 hours

**THE PHARMACOLOGY OF ACETAMINOPHEN**
- The analgesic effect of acetaminophen occurs predominantly in the Central Nervous System (CNS)
- Mechanism of action
  - cyclo-oxygenase 3 (COX3) inhibition
  - located in the central nervous system (CNS)
  - some peripheral effects
- Clinical Effects
  - analgesic
  - antipyretic
  - No gastritis
  - No effects on uric acid-gout☺
  - No anti-platelet effects
- NO ANTI-INFLAMMATORY EFFECTS
- Maximum daily dose of acetaminophen is 3000 mg
- Maximum effective dose of acetaminophen is 1000 (650) mg

**No. 11 HYDROCHLORTHIAZIDE** (generic)
- HCTZ
- diuretic/antihypertensive
- depletes potassium
- eat lots of bananas and drink lots of orange juice
- watch out for potassium chloride supplements

**No. 12 METOPROLOL TARTRATE/SUCCINATE** (generic)
- Selective Beta Blocking Agent (Beta1 blocking agent)
- Indications
  - antihypertensive
  - premature atrial (PACs) and/or ventricular contractions (PVCs)
  - other abnormal cardiac rhythms
- Lopressor®, /Toprol XL®
- DO NOT DISCONTINUE ABRUPTLY
- Long-term use of NSAIDs (~ 3 weeks) may diminish hypotensive effectiveness of beta blockers
- Other selective Beta₁ blocking agents
  - nebivolol (Bystolic®)
  - atenolol (Tenormin®)
  - bisoprolol (Zebeta®)
  - acebutolol (Sectral®)
  - esmolol (Brevibloc®)
  - betaxolol (Kerlane®)

NO DRUG INTERACTIONS WITH VASOCONSTRICTOR

No. 14  **SERTRALINE** (generic)
- Selective Serotonin Reuptake Inhibitor (SSRI)
- depressive episodes
- chronic fatigue syndrome
- chronic pain
- adjunctive therapy for attention deficit hyperactivity disorder (ADHD)
- Zoloft®
- possible side effects
  - bruxism
  - bleeding

No. 15  **FUROSEMIDE ORAL** (generic)
- loop diuretic
- antihypertensive
- Lasix®

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