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Keeping Up: Review of New Drugs

Acknowledgement

- Thank you to Dr. Trish Freeman, RPh, PhD for the original creation and presentation of 'Keeping Up: Review of New Drugs.'
- With her permission, I am able to present the information to you today with all necessary updates.

Learning Objectives

At the conclusion of this program, the participant should be able to:

- Identify new molecular and biological entities, with the exception of diagnostic compounds, that entered the U.S. drug market from late 2009 through 2010
- Describe each agent's mechanism of action, dosage, adverse reactions, contraindications, and drug interaction profile
- Compare new medicines with other agents used for the same indications
- List special patient instruction and monitoring parameters for each of these agents

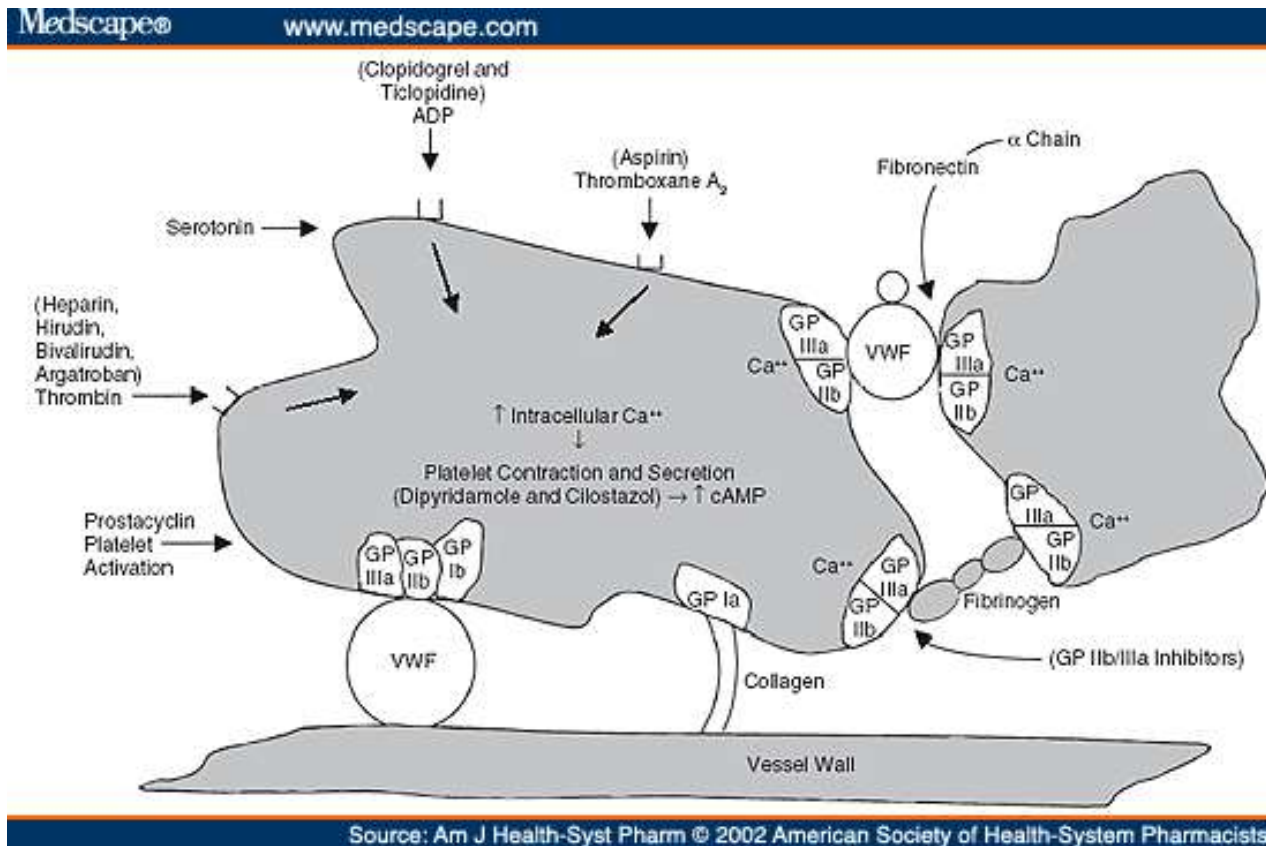
Prasugrel (Effient)

Eli Lilly

- Thienopyridine antiplatelet agent
- Prodrug similar to clopidogrel that requires metabolic conversion to active entity
 - Multiple CYP enzymes involved including 3A4, 2B6, 2C9 and 2C19
- Indications:
 - Reduce rate of thrombotic events in ACS who are to be managed with PCI including
 - UA or NSTEMI
 - STEMI managed with primary or delayed PCI
- Clinical efficacy superior to clopidogrel in trials, but higher incidence of fatal bleeding occurred with prasugrel

Prasugrel (Effient) Eli Lilly

- Mechanism of Action:
 - Inhibits platelet activation and aggregation mediated by the P₂Y₁₂ ADP receptor



Prasugrel (Effient)

Eli Lilly

■ Contraindications:

- Active bleeding
- Prior TIA or stroke

■ Warnings/precautions:

- Significant, sometimes fatal hemorrhage
- Patients 75 years of age and older
- CABG
- Discontinue 7 days prior to elective surgery
- Body weight <60 kg
- Propensity to bleed
- Concomitant use of anticoagulants or NSAIDs

Prasugrel (Effient)

Eli Lilly

- Usual Dose:
 - 60 mg load followed by 10 mg daily with 75 to 325 mg daily of ASA
 - May decrease dose to 5 mg daily in patients under 60 kg
 - May be administered without regards to food

Prasugrel (Effient)

Eli Lilly

- Adverse effects:
 - Bleeding/hemorrhage
 - TTP
 - Nausea
 - Headache
 - Dyspnea
 - Fatigue
- Drug Interactions:
 - Warfarin
 - NSAIDs
 - CYP inhibitors/inducers
not clinically significant

Sumatriptan (Sumavel DosePro)

Zogenix, Inc.

- New dosage form of sumatriptan
- 5-HT receptor antagonist indicated for:
 - acute treatment of migraine attacks, with or without aura
 - acute treatment of cluster headaches
 - Not intended for prophylactic treatment of migraines

Sumatriptan (Sumavel DosePro)

Zogenix, Inc.

■ Contraindications:

- IV administration
- IHD, CV dx
- History of stroke or TIA
- PVD
- Hypertension
- Ergot/triptan use

■ Warnings:

- Serious cardiac events, including MI
- Cerebrovascular events, some fatal
- GI ischemic events
- Raynaud's syndrome
- Serotonin syndrome
- Hypertension
- seizures

Sumatriptan (Sumavel DosePro)

Zogenix, Inc.

- Usual dose:
 - 6 mg subQ to the abdomen or thigh
 - Do not administer in the arm or other body areas
 - 12 mg total in 24 hour period
- Adverse effects:
 - Injection site reactions
 - Warm/hot sensations
 - Heaviness / pressure in head and chest
 - Flushing
 - Dizziness/vertigo
 - Sedation
 - Sinus cavity/jaw discomfort

Sumatriptan (Sumavel DosePro)

Zogenix, Inc.

- Drug interactions:
 - MAOIs – doubles plasma levels of sumatriptan
 - Ergot alkaloids
 - Other triptans
 - SSRI/SNRI due to risk for serotonin syndrome

Dronedarone (Multaq)

Sanofi Aventis

- New antiarrhythmic drug indicated to reduce the risk of cardiovascular hospitalization in patients with paroxysmal or persistent a fib/flutter
 - ATHENA trial showed 24% decrease in CV –related hospitalizations and death over 2 years
- Use in patients with a recent episode of a fib/flutter and associated risk factors and who are in sinus rhythm or who will be cardioverted
 - Age > 70; HTN
 - DM
 - Prior CVA
 - LVEF <40%

Dronedarone (Multaq)

Sanofi Aventis

- Similar in structure to amiodarone (Cordarone) but thought to be safer alternative?
 - Heart failure exacerbation
 - Bradycardia
 - QT prolongation
 - N/V/D
 - Rash
 - Increased serum creatinine
 - NO significant pulmonary adverse events or thyroid adverse events were reported

Dronedarone (Multaq)

Sanofi Aventis

- Contraindications and Warnings:
 - NYHA Class IV heart failure
 - NYHA Class II – III heart failure with a recent decompensation requiring hospitalization or referral to heart failure clinic
 - ANDROMEDA study showed 2 fold increase in mortality in these groups
 - QT interval >500 ms
 - HR <50 BPM
 - Severe hepatic impairment
 - Pregnancy
 - hypokalemia/ hypomagnesemia

Dronedarone (Multaq)

Sanofi Aventis

- Recommended dose:
 - 400mg BID with meals
- Drug Interactions
 - QT – prolonging drugs
 - Strong CYP_{3A} inhibitors
 - CYP_{3A} substrates
 - CYP_{2D6} substrates
 - Other antiarrhythmics
 - CCBs
 - Digoxin
 - Beta Blockers
 - Statins

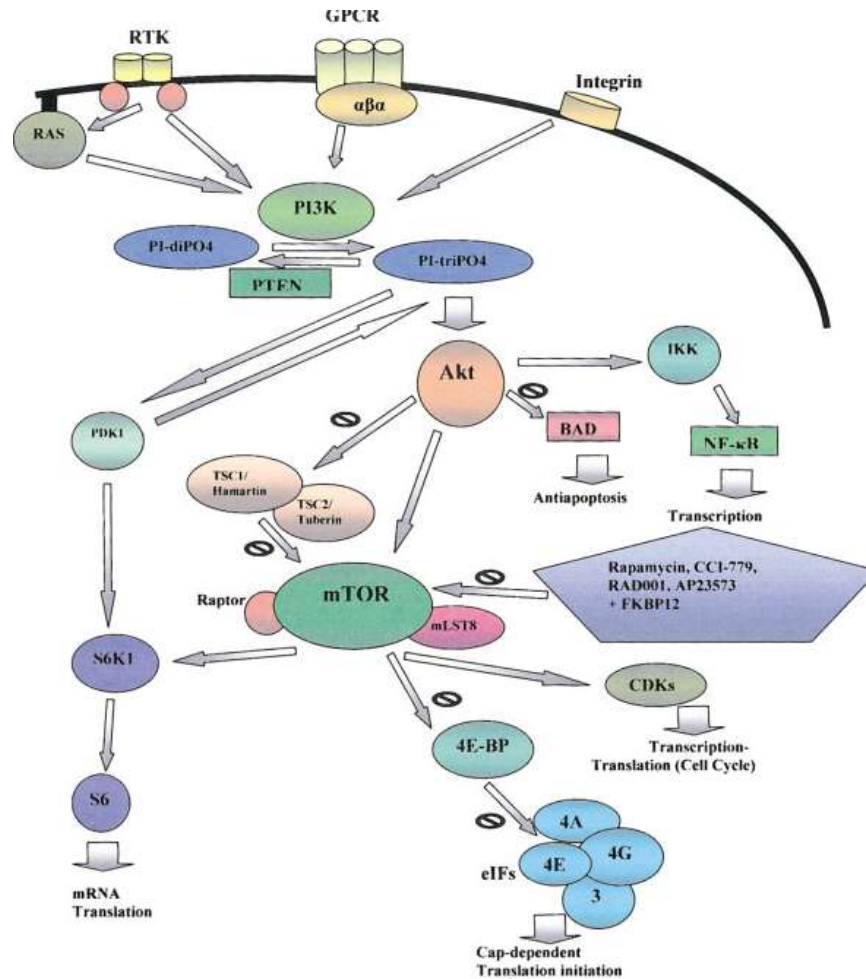
Everolimus (Zortress)

Novartis

- Everolimus is an immunosuppressant analog of sirolimus
- FDA approved to for rejection prophylaxis of renal transplants
- Everolimus is a m-TOR inhibitor by binding to FK binding protein-12 (FKBP-12) inactivating any serine-theronine kinase activity.

Everolimus (Zortress)

Novartis



Everolimus (Zortress)

Novartis

- Drug Interactions
 - CYP_{3A4} substrate
- Recommended Dose
 - 0.75 mg PO twice daily and adjusted in 4 – 5 day intervals based on serum concentrations, tolerability, and response.

Everolimus (Zortress)

Novartis

- May be taken with or without food; requires consistency
- Adverse effects
 - Increased risk of renal and venous thrombosis; Immunosuppressant activity results in increase risk of infections; development of malignancy
 - Hypercholesterolemia, hyperglycemia, electrolyte abnormalities, N/V/D, cough, dyspnea

Morphine sulfate/naltrexone (Embeda)

King Pharmaceuticals

- Combination opioid agonist/antagonist for indicated for management of moderate to severe pain
 - For use when a continuous opioid analgesic is needed for an extended period of time
 - NOT indicated for PRN use
- Unique, abuse-resistant design
 - The opioid antagonist (naltrexone) embedded in the pellet core
 - When taken as directed, no naltrexone released, when crushed, chewed, or dissolved, naltrexone is released and euphoria is significantly reduced

Morphine sulfate/naltrexone (Embeda)

King Pharmaceuticals

- Recommended dose:
 - Varies based on severity of pain and degree of opioid tolerance
 - Available in 20, 30, 50, 60, 80 and 100 mg capsules
 - May be administered once or twice daily
 - Capsule may be opened and sprinkled on apple sauce
- Adverse Effects:
 - Similar to other opioid analgesics
- Drug Interactions:
 - Similar to other opioid analgesics

Morphine sulfate/naltrexone (Embeda) King Pharmaceuticals

■ Warnings

- Misuse or abuse by tampering with the capsule can cause rapid release and absorption of both morphine and naltrexone
 - Morphine dose might be fatal, particularly if person is opioid-naïve
 - In opioid-tolerant persons, the absorption of naltrexone might increase risk of precipitating withdrawal
- Indicated for use in opioid-tolerant individuals only
- Patients should not consume alcoholic beverages or use Rx or OTC medications containing alcohol

Fentanyl buccal soluble film (Onsolis)

Meda Pharmaceuticals

- New dosage form of fentanyl
- Indicated for management of breakthrough pain in patients with cancer, 18 years of age and older **who are already receiving and are tolerant to opioid therapy for their underlying persistent cancer pain**
 - Not indicated in opioid-intolerant patients
- Recommended dose:
 - 200 mcg initially up to a maximum of 4 x 200 mcg films or a single 1200 mcg film, to achieve adequate analgesia without undue adverse effects
 - Maximum of one dose per episode and no more than 4 doses in 24 hours
 - Doses must be separated by at least 2 hours
- Available as a buccal film in 200, 400, 600, 800 and 1200 mcg strengths

Fentanyl buccal soluble film (Onsolis)

Meda Pharmaceuticals

- Due to abuse potential will be available through a restricted distribution program
- FOCUS
 - Prescribers and pharmacies must enroll
 - Requirement of FDA's REMS program
 - Strict education needed as dose can be fatal to children and non-opioid tolerant adults

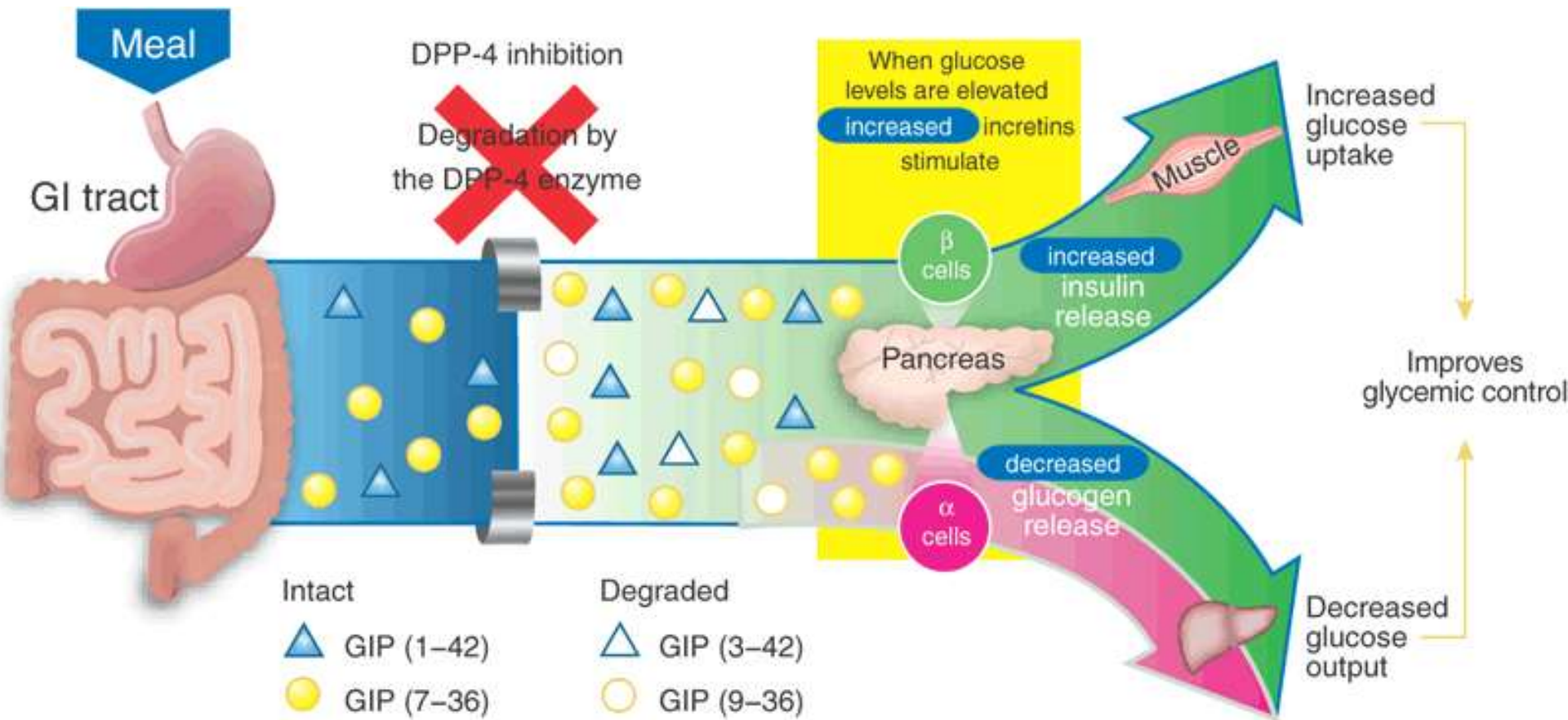
- Use tongue to wet the inside of cheek or rinse mouth with water to wet the area
- Hold the film in place on a clean, dry finger with the pink side facing up
- Place the film inside mouth with the pink side against the inside of moistened cheek and press and hold film against cheek for 5 seconds
- Leave the film in place until dissolves – usually within 15 to 30 minutes
- Avoid touching or moving the film while it dissolves
- No food until after the film dissolves, but can drink after 5 minutes



Saxagliptin (Onglyza)

AstraZenca

- DPP-4 inhibitor to improve glucose control in patients with type 2 diabetes
 - Used as adjunct to diet and exercise
 - Has not been studied in combination with insulin
- MOA:
 - DPP-4 inhibitors slow the inactivation of incretin hormones such as glucagon-like peptide 1 (GLP-1) which are released by the intestines during the day and work to regulate insulin secretion from the pancreas
 - GLP-1 is rapidly inactivated by the enzyme DPP-4
- Joins sitagliptin (Januvia)



Saxagliptin (Onglyza)

AstraZenca

- Recommended dose:
 - 2.5 to 5 mg once daily taken without regards to meals
 - Use lower dose in patients with renal insufficiency (CrCl <50 mL/min)
 - Use lower dose in patients on strong CYP₃A_{4/5} inhibitors
- Adverse effects:
 - Respiratory tract and urinary tract infections
 - Headache
 - Peripheral edema; esp. in combination with TZDs
 - Hypoglycemia; esp. in combination with sulfonylureas
 - Hypersensitivity reactions

Incretin-based Therapies

Incretin mimetics^{6.21-23}

- Route of Administration:

Injectable

- GLP-1 receptor agonist:
- Synthetic GLP-1 analogues that mimic some effects of incretin hormones
- Peptides

Incretin enhancers^{6.21,24}

- Route of Administration:

Oral

- DPP-4 inhibitors
- Increase circulating levels of endogenous intact GLP-1 and GIP
- Low molecular weight agents

Liraglutide (Victoza)

Novo Nordisk

- New human GLP-1 analogue that acts as a GLP-1 receptor agonist administered via subQ injection
 - 97% amino acid homology to native GLP-1
- Mechanism of Action:
 - increases intracellular cyclic AMP (cAMP) leading to insulin release in the presence of elevated glucose concentrations
 - decreases glucagon secretion in a glucose-dependent manner and delays gastric emptying.
- Indication:
 - as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus.

Liraglutide (Victoza)

Novo Nordisk

- Recommended dose:
 - 0.6 mg per day for one week administered once daily at any time of day, independently of meals
 - Increase to 1.2 mg daily after 1 week, if acceptable glycemic control is not reached, may increase to max dose of 1.8 mg
 - Inject subcutaneously in the abdomen, thigh or upper arm
 - Follow dose-titration to avoid GI adverse effects
- How Supplied:
 - Solution for subcutaneous injection, pre-filled, multi-dose pen that delivers doses of 0.6 mg, 1.2 mg, or 1.8 mg (6 mg/mL, 3 mL)
 - Refrigerate until first use, room temp storage acceptable after first use for 30 days

Liraglutide (Victoza)

Novo Nordisk

- The FDA approval of Victoza was based on five double-blind, randomized, controlled clinical trials, one of 52 weeks duration and four of 26 weeks duration, in 3,978 subjects
- As monotherapy, significantly reduced A1c greater than 8 mg daily glimepiride
- Also showed significantly reduced A1c as add-on therapy to glimepiride, metformin and thiazolidinediones
- May need to lower doses of sulfonylureas when initiate add-on therapy with liraglutide
- Has not been studied in combination with insulin, or in patients with type I diabetes

Liraglutide (Victoza)

Novo Nordisk

■ Warnings/Precautions:

- Thyroid C-cell tumors at clinically relevant exposures in rodents
- Not known whether Victoza causes thyroid C-cell tumors, including medullary thyroid carcinoma (MTC) in humans
- Pancreatitis
- Severe hypoglycemia when used in combination with sulfonylurea

■ Contraindications:

- personal or family history of MTC or in patients with Multiple Endocrine Neoplasia Syndrome type 2 (Men2)

Liraglutide (Victoza)

Novo Nordisk

- Adverse Effects:
 - Nausea
 - Vomiting
 - Diarrhea
 - Constipation
 - Headache
 - Anti-liraglutide antibody formation

Ulipristal (Ella)

Watson

- MOA: Selective progesterone receptor modulator with progesterone agonist/antagonist activity
- Dose: 30 mg up to 120 hours (5 days) after intercourse).
- Adverse events: HA, Abdominal Pain, N/V. If a patient throws up within the first 3 hours of dose, the patient should receive another dose.
- Available by prescription only.

Pitavastatin (Livalo)

Kowa Pharmaceuticals, Inc

- New HMG-CoA reductase inhibitor
- Indications:
 - Primary hyperlipidemia and mixed dyslipidemia as adjunct to diet to reduce
 - TC
 - LDL-C
 - Apo B
 - TG
 - and to increase HDL

Pitavastatin (Livalo)

Kowa Pharmaceuticals, Inc

- Warnings:
 - Myopathy and rhabdomyolysis
 - Dose –dependent
 - doses > 4mg daily associated with severe myopathy in premarketing studies
 - Additional risk factors include age >65, renal impairment, hypothyroidism and concurrent fibrate use
 - Renal insufficiency
 - Not studied in patients with CLcr <30 mL/min
 - Liver dysfunction
 - Persistent elevations can occur - monitor

Pitavastatin (Livalo)

Kowa Pharmaceuticals, Inc

- Usual dose:
 - 4 mg daily with or without food at any time of the day
 - Initial dose 2mg for patients with normal renal function
 - Initial dose 1 mg in patients with CrCl <60 mL/min
- Contraindications:
 - Cyclosporine
 - Pregnancy (Category X)

Pitavastatin (Livalo)

Kowa Pharmaceuticals, Inc

ADVERSE EFFECTS:

- Myalgia
- Back pain
- Diarrhea
- Constipation

DRUG INTERACTIONS:

- Lopinavir/ritonavir – avoid use
- Erythromycin - max dose 1 mg daily
- Rifampin – max dose 2 mg daily
- Fibrates

Asenapine (Saphris)

Schering-Plough

- New atypical antipsychotic for sublingual administration
- Indications:
 - Acute treatment of schizophrenia in adults
 - Acute treatment of manic or mixed episodes associated with bipolar 1 disorder in adults

Asenapine (Saphris)

Schering-Plough

- Usual Dose:
 - 5 mg sublingually BID for schizophrenia
 - 10 mg sublingually BID for bipolar disorder
 - Decrease to 5 mg BID if AEs occur
- Patient instructions:
 - place tablet under tongue, will dissolve in seconds
 - Refrain from eating or drinking for 10 min

Dalfampridine (Ampyra)

Acorda Therapeutics

- Potassium channel blocker that enhances conduction in damaged nerves
 - Exact mechanism has not been fully elucidated
- Specifically indicated as a treatment to improve walking in patients with multiple sclerosis

Dalfampridine (Ampyra)

Acorda Therapeutics

- Recommended dose:
 - 10 mg twice daily, taken with or without food
 - This is the maximum dose and should not be exceeded
 - doses should be taken approximately 12 hours apart
 - Patients should not take double or extra doses if a dose is missed
 - Do not chew, crush, divide or dissolve tablets

Dalfampridine (Ampyra)

Acorda Therapeutics

■ Contraindications:

- History of seizures
- Moderate to severe renal impairment (Clcr <50 mL/min)
- Stop therapy and do not resume if patient experiences a seizure while receiving Ampyra

■ Warnings/Precautions:

- Mild renal impairment (Crcl 51 – 80 mL/min)
 - Monitor baseline creatinine and estimate clearance prior to initiating therapy
- Increased risk for UTIs

Dalfampridine (Ampyra)

Acorda Therapeutics

- Adverse effects:
 - Urinary tract infection
 - Insomnia
 - Dizziness
 - Headache
 - Nausea
 - Asthenia
 - Back pain
 - Balance disorder
 - Multiple sclerosis relapse
 - Paresthesia
 - Constipation
 - Dyspepsia
 - Seizures

Aztreonam (Cayston)

Gilead

- New inhalation form of aztreonam indicated to improve respiratory symptoms in cystic fibrosis (CF) patients with *Pseudomonas aeruginosa* or in patients colonized with *Burkholderia cepacia*
 - Both adults and children 7 years of age and older
- Available as single-use vial for reconstitution with a 1 mL ampule of sterile diluent
- Designed for administration via inhalation using an Altera Nebulizer System
 - Bronchodilator should be administered first

Aztreonam (Cayston)

Gilead

- Adverse effects:
 - Cough
 - Nasal congestion
 - Wheezing
 - Pharyngolaryngeal pain
 - Chest discomfort
 - Pyrexia
 - Abdominal Pain
 - Vomiting
- Recommended dose :
 - one single-use vial (75 mg of aztreonam) administered 3 times a day for a 28-day course (followed by 28 days off Cayston therapy)
 - dosage is not based on weight or adjusted for age
 - doses should be administered at least 4 hours apart

Capsaicin (Qutenza)

NeurogesX

- Transdermal patch containing 8% capsaicin in a localized dermal delivery system
 - Capsaicin is a synthetic equivalent of the naturally occurring compound found in chili peppers
- Mechanism of action:
 - Capsaicin is an agonist for the transient receptor potential vanilloid I receptor (TRPV1), an ion channel-receptor complex expressed on nociceptive nerve fibers in the skin
 - Topical administration of capsaicin causes an initial enhanced stimulation of the TRPV1 nociceptors that may be associated with painful sensations
 - Pain relief thought to be mediated by a reduction in TRPV1 expressing nociceptive nerve endings

Capsaicin (Qutenza)

NeurogesX

- Specifically indicated for the management of neuropathic pain associated with postherpetic neuralgia
- Recommended initial dose is a single, 60-minute application of up to four patches
- Treatment may be repeated every three months or as warranted by the return of pain (not more frequently than every three months)
- Adverse effects:
 - Application site erythema
 - Application site pain
 - Application site pruritus
 - Application site papules

New Dosage Forms of Diclofenac

- Diclofenac potassium (Cambia) – oral solution for acute treatment of migraine headaches; mix 50 mg packet in 30 – 60 ml water prior to administration
- Diclofenac potassium (Zipsor) – liquid filled capsules for relief of mild to moderate pain; 25 mg QID
- Diclofenac sodium (Pennsaid) - topical solution for osteoarthritis of the knee
 - recommended initial dose of the drug is 40 drops per knee, 4 times a day
 - spread evenly around front, back and sides of the knee, 10 drops at a time
 - repeat this procedure until 40 drops have been applied and the knee is completely covered with solution

Other New Dosage Forms

- Exalgo (hydromorphone hydrochloride) extended release
 - Schedule II mu-opioid agonist
 - Utilizes the [OROS PUSH-PULL](#) osmotic delivery system to release hydromorphone at a controlled rate over an extended period
 - Specifically indicated for the management of moderate to severe pain in opioid tolerant patients requiring continuous, around-the-clock opioid analgesia for an extended period of time
 - 8mg to 64 mg daily ; available in 8, 12 and 16 mg tablets
 - Tablets administered every 24 hours with or without food
 - discontinue all other extended-release opioids when initiating Exalgo therapy

Other New Dosage Forms

- Doxepin (Silenor):
 - New formulation of doxepin for use in treatment of insomnia due to difficulties with sleep maintenance
 - originally approved in 1969 as the first tricyclic antidepressant
 - Doses of 25 – 150 mg used for these indications
 - Mechanism of action for sleep secondary to histamine type 1 receptor antagonism
 - 6 mg daily 30 min before bedtime; decrease to 3mg in elderly
 - Not to be taken within 3 hours of a meal

Other New Dosage Forms

- Ketorolac tromethamine (Sprix):
 - intranasal dosage form of ketorolac for short-term (up to 5 days) use for treatment of moderate to moderately-severe pain that requires opiate-level analgesia
 - 1 spray (15.75 mg) in each nostril every 6 – 8 hours, max dose is 126 mg in 24 hours (4 doses)
 - Patients 65 years or older, patients with renal insufficiency or patients weighing less than 50 kg should use one spray in ONE nostril every 6 – 8 hours for max of 63 mg in 24 hours

Other New Dosage Forms

- Ondansetron (Zuplenz)
 - Oral Soluble Film
 - Approved for postoperative, highly and moderately emetogenic cancer chemotherapy-induced, and radiotherapy-induced nausea and vomiting
 - Dosing is consistent; Adults max 24 mg/day PO
 - Place film on tongue and it will dissolve in 4 to 20 seconds. Once dissolved, the patient may swallow with or without liquid.

New Ophthalmic Products

- Two new fluoroquinolones for treatment of bacterial conjunctivitis
 - Gatifloxacin (Zymaxid)
 - 1 drop every two hours in the affected eye(s) while awake, up to 8 times on Day 1
 - 1 drop two to four times daily in the affected eye(s) while awake on Days 2 through 7
 - Besifloxacin (Besivance)
 - 1 drop in affected eye(s) TID four to twelve hours apart x 7 days
- One new antihistamine product for itching associated with allergic conjunctivitis
 - Bepotastine (Bepreve)
 - 1 drop to eyes BID

New Vaccine Products

- Meningococcal Vaccine (Menveo)
 - A vaccine to prevent meningococcal disease caused by *Neisseria meningitidis* serogroups A, C, Y, and W-135 in person 11 to 55 years of age.
- Pneumococcal 13-valent conjugate vaccine (Prevnar 13)
 - A vaccine to prevent *Streptococcus pneumoniae*-related infections in children 6 weeks through 5 years.

Other New Dosage Forms

- Metoclopramide hydrochloride (Metozolv ODT)
 - Oral disintegrating form of metoclopramide for short-term treatment of GERD (4-12 weeks) in those who fail to respond to conventional therapy and diabetic gastroparesis
 - 10 – 15 mg ACHS
 - Take on empty stomach 30 min before eating
- Therapy should not exceed 12 weeks 2nd to risk of tardive dyskinesia

Other New Dosage Forms

- Colchicine (Colcrys) – for gout flares and familial Mediterranean fever
- Miconzaole (Oravig) – 50 mg buccal tablet to be dissolved in upper gum region once daily x 14 days for oral pharyngeal candidiasis
- Rifaximin (Xifaxan 550) – 550 mg BID to reduce risk of hepatic encephalopathy in patients with liver failure (alone or in combination with lactulose)

Other New Dosage Forms

- Pregabalin (Lyrica)
 - New oral solution formulation
- Pramipexole (Mirapex ER)
 - New extended-release formulation for Parkinson's Disease
- Memantine (Namenda XR)
 - New extended-release formulation for Alzheimer's Disease
- Trazodone (Oleptro)
 - New extended-release formulation for depression

New Combinations

- Vimovo = naproxen + esomeprazole
 - treatment of arthritis in patients at risk for NSAID-associated ulcers
- Dutasteride/tamsulosin (Jalyn)
 - Combination of a 5-alpha reductase inhibitor and an alpha-1A blocker for the treatment of benign prostatic hyperplasia (BPH)
 - One capsule (0.5mg dutasteride/0.4mg tamsulosin) PO daily.
 - Should be taken 30 minutes after same meal each day.

REMS: Risk Evaluation and Mitigation Strategies

- REMS is a strategy by the FDA to manage a known or potential serious risk associated with a drug or biological product
- will be required for a given drug if FDA finds that a REMS is necessary to ensure that the benefits outweigh the risks of the product
- can include a Medication Guide, Patient Package Insert, a communication plan, elements to assure safe use, and an implementation system

REMS: Risk Evaluation and Mitigation Strategies

- List of approved REMS can be accessed at <http://www.fda.gov/Drugs/DrugSafety/PostmarketDrugSafetyInformationforPatientsandProviders/ucm111350.htm>
- Many drugs require medication guides as part of REMS that should be provided to any patient prior to taking the medication
 - Current approved medication guides can be accessed at <http://www.fda.gov/Drugs/DrugSafety/ucmo85729.htm>

Questions?