

## Respiratory Medications

"I BREATHE IN MY COURAGE AND EXHALE MY FEAR"

Pulmonary Strong Wellness 2020

#### Two Names??



- ☐ Every medication has two names- GENERIC and BRAND
- ☐ **Generic** name- is the scientific name which describes the main chemical in the drug.
- ☐ **Brand** name- is the name that the specific company uses when it makes that drug.
- ☐ Example-Acetaminophen-a common headache medicine. Brand names include Anacin Aspirin Free and Tylenol.

### Classes of Pulmonary Medications

□ Bronchodilators (Short and Long
 Acting OR Adrenergic and Anticholinergic)

 □ Corticosteroids- "Steroids"
 □ Combination Medication
 □ Mucolytics
 □ Allergy medications
 □ Antibiotics

#### **Bronchodilators**

☐ Preferred delivery method--INHALERS--but can be taken as pills, liquids or nebulized liquids

**MDI**-Metered Dose Inhaler (aerosol)

**DPI**-Dry Powder Inhaler (powder)

Nebulizer-changes medication from a liquid to a mist

**SMI**-Soft Mist Inhaler (Respimat)

☐ Relaxes tight muscles in the airways which open the airways, relieves cough & mucus production

☐ Side Effects may include increase heart rate, headache and shakiness-

Bronchioles

Open Airway

Narrowed Airway

Inflammation

tremors

## **Short-Acting Bronchodilators**

- ☐ Provide quick relief--therefore fast-acting--within 15-20 min
- ☐ Last 2-6 hours
- ☐ Known as a "Rescue Inhaler"
- ☐ Used on a <u>"as needed"</u> basis
- ☐ Using your "Rescue" inhaler before activities &/or triggers that make your breathing worse, may help lessen or prevent increased shortness of breath
- ☐ Increased use of rescue inhalers may indicate COPD/Lung Disease is not well controlled



# Short-Acting Bronchodilators (SABA)

- ☐ Atrovent (ipratropium bromide) MDI or Nebulizer
- ☐ Combivent Respimat (albuterol and atrovent) SMI
- ☐ DuoNeb Nebulizer (Liquid form of Combivent)
- ☐ Proair, Proventil, Ventolin (all albuterol) MDI or RespiClik
- ☐ Xopenex (levalbuterol) MDI or Nebulizer

# Long-Acting Bronchodilators (LABA)

- ☐ DOES NOT provide quick relief-do not take for an "attack".
- ☐ Last 12-24 hours
- ☐ Usually referred as "Maintenance" or "Controller" Inhalers.
- ☐ Used on a **regular scheduled** basis-not "as needed"

# Long-Acting Bronchodilators (LABA or LAMA)

☐ Serevant (salmeterol xinafoate)-MDI or DP	I
☐ Perforomist (formoterol)-Nebulizer	
☐ Brovana (Aformoterol)-Nebulizer	
☐ Spiriva HandiHaler-DPI or Respimat SMI	
(tiotropium)Avoid getting powder in eyes	
☐ Striverdi Respimat-SMI (olodaterol	
hydrochloride)	
☐ Incruse Ellipta-DPI (unmeclidinium)	
☐ Tudorza Pressair-DPI (aclidinium bromide)	

### **Corticosteroids**

#### Possible Side Effects of Steroids

☐ Increased appetite, weight gain	
☐ Sudden mood swings	<b>NOTE</b> - Frequency of side
☐ Muscle weakness	effects may vary from
☐ Blurred vision	patient to patient.
☐ Increased growth of body hair	-Not all patients develop
☐ Easy bruising	side effects.
☐ Swollen, "puffy face"	
☐ Acne	
☐ Worsening diabetes	
☐ High blood pressure	
☐ Nervousness, restlessness	
☐ Stomach irritations	
☐ Water retention, swelling	
☐ Cataracts or glaucoma	
☐ Osteoporosis (bone weakening disease	e)

Confidential & Proprietary | Elliot Hospital All Rights Reserved

## **Inhaled Corticosteroids (ICS)**

Alvesco (ciclesonide) MDI
Arnuity Ellipta (fluticasone furoate) DPI
Asmanex (mometasone) MDI
Flovent (fluticasone propionate) Diskus or MDI
Pulmicort (Budesonide) DPI or nebulizer
QVAR (beclomethasone) MDI

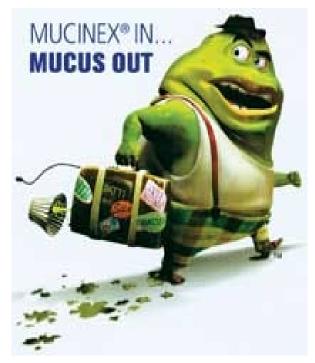
#### **Combination Medication**

2 + Medications combined into one inhaler

☐ Include LABA & ICS such as Advair Diskus, Breo Ellipta, Dulera and Symbicort ☐ Triple therapy inhalers such as Trelegy Ellipta & Breztri Aerosphere has ICS with 2 different types of bronchodilators ☐ A short acting maintenance & rescue inhaler (SABA) such as Combivent ☐ A inhaler that contains 2 different types of bronchodilators such as Anoro Ellipta, Stiolto Respimat & Bevespi Aerosphere

## Mucolytics

- ☐ Muco (coming from mucous)
- ☐ Lytic (meaning to eat or dissolve)
- ☐ Mucinex and Mucomyst
- ☐ These medications help to break the bonds in mucous that make it so thick, and therefore you can cough it up easier.
- ☐ Make sure to note the color for the doctor!



### **Allergy Medications**

- □ Mast cells are part of your body's defense system
  □ When allergens make contact with these cells they dissolve or rupture and release a number chemicals including histamines
  □ Histamines-causes swelling and increased mucus production
  □ Goals of Allergy medication are to block histamine release from mast cells that cause
  - histamine release from mast cells that cause allergic reaction. These meds help stabilize mast cells and are used to prevent asthma attacks & symptoms of seasonal or chronic allergic rhinitis

#### **Antihistamines**

- ☐ Zyrtec (certirizine)
- ☐ Claritin (loratadine)
- ☐ Allegra (fexofenadine)
- ☐ Astelin (azelastine)
- ☐ Chlor-Trimeton (chlorpheniramine)



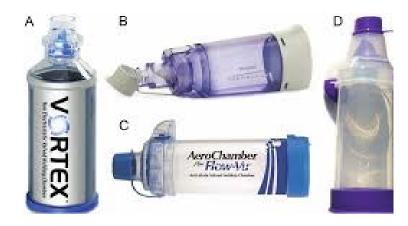
#### **Antibiotics**

- ☐ Antibiotics are used to treat infections caused by BACTERIA
- ☐ It's IMPORTANT to take all your antibiotics and medications as prescribed
- ☐ If antibiotic is not taken as directed—bacteria may become weaken, but not destroyed
- ☐ Call your doctor at the first signs of infection



## Spacers/Valve Holding Chambers (VHC)

- ☐ Spacers/VHC are crucial!
- ☐ They increase the deposition of the
  - medication
- ☐ Makes the MDI easier to use
- ☐ Strongly recommended to use a spacer/VHC with a ICS MDI
- ☐ Should NEVER be used for DPI's (Dry Powder Inhalers)



### **Proper MDI Technique**

- 1. Shake the MDI for at least 5-10 sec. **Remember to PRIME.** Prime rates differ, please check manufacturers specifications
- 2. Attach the spacer to the inhaler with the canister in a upright position then shake several times
- 3. Exhale to the end of your normal breath-**not** into the spacer.
- 4. Actuate it (squeeze it while it's in a spacer)
- 5. Take a slow steady deep breath in. This should take 3-4 seconds. If the spacer makes a "whistling" sound, you are breathing in too fast. You should **NOT** hear a "whistle"
- 6. HOLD it for 5 -10 seconds, take spacer out of your mouth. Pucker your lips as if you were going to blow out a candle. Breathe out slowly
- 7. Inhalers that require 2 puffs, wait at least 30 sec-1 minute between puffs.
- 8. Replace the cap on the mouthpiece of the MDI & spacer after you have finished

#### **FYI**

Don't use nebulizers, or MDI's near a flame or heat source
Don't start new over the counter drugs without talking to MD
Cleaning your nebulizer, MDI or spacers weekly. Never wash
in soap with lotion ie Palmolive
Pure WHITE Ivory liquid soap is the best if using soap
Simple disinfectant-3 parts water to 1 part vinegar-soak for 30
min, rinse well and air dry
Cleaning & Disinfecting are 2 different procedures! Refer to
Self Protection PowerPoint for Disinfecting procedure.

