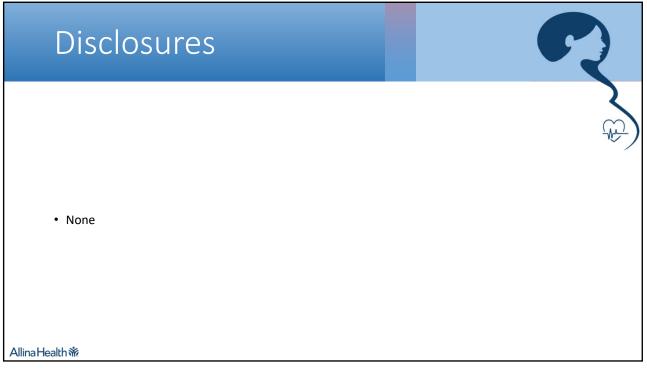


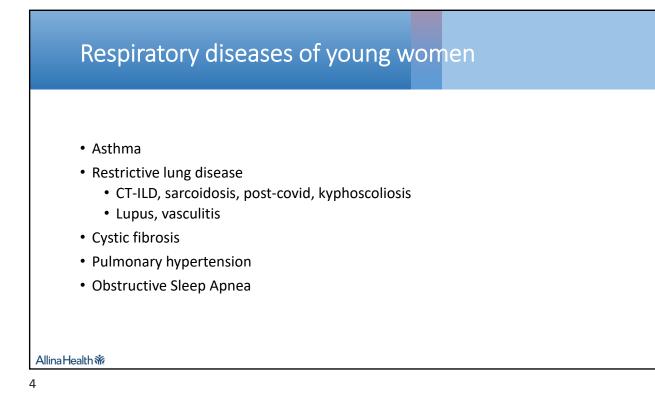
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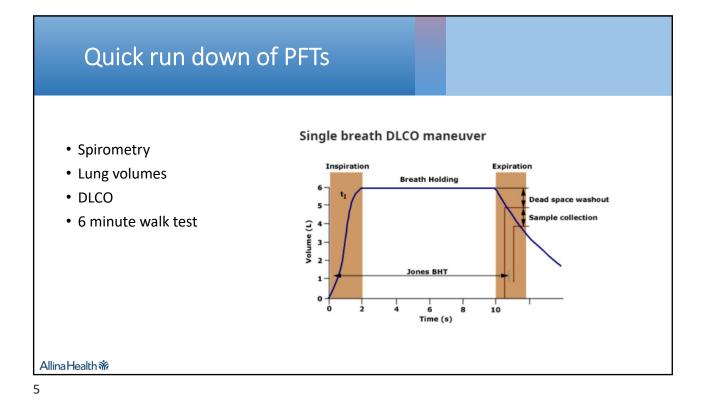


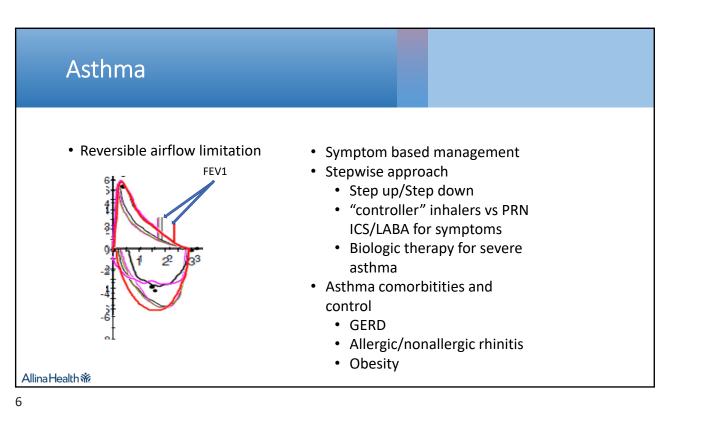
Objectives

- Describe common pulmonary processes occurring in young women
- Describe maintenance medications that are used in pregnancy
- Identify medications used for chronic respiratory conditions that are unsafe during pregnancy
- Describe oxygen delivery devices

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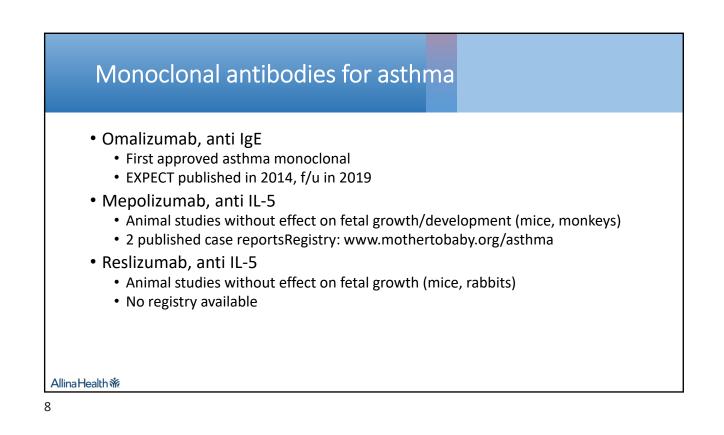




Asthma in pregnancy

- Classic "rule of thirds"
- Potential pregnancy related effects on type 2 inflammation
- · Asthma control and maternal/fetal outcomes
- Medication management
 - Controller medication use in patients with moderate or severe asthma
 - Concerns regarding medication adherence
 - · Concerns regarding fetal effects of medications
 - Unknowns in newer meds

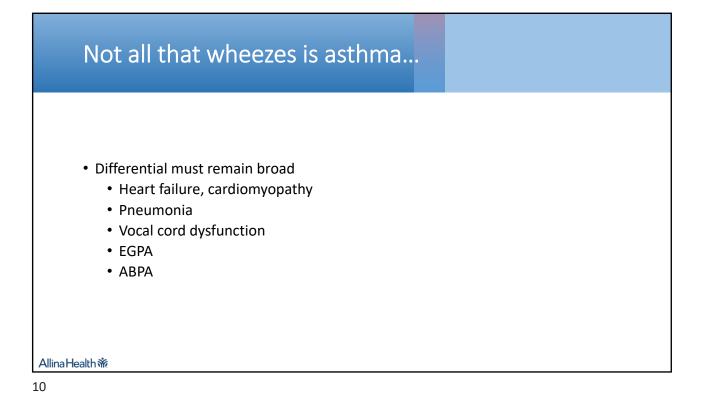
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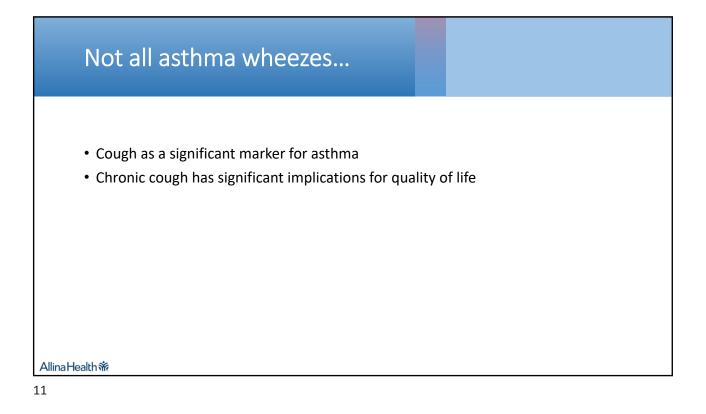


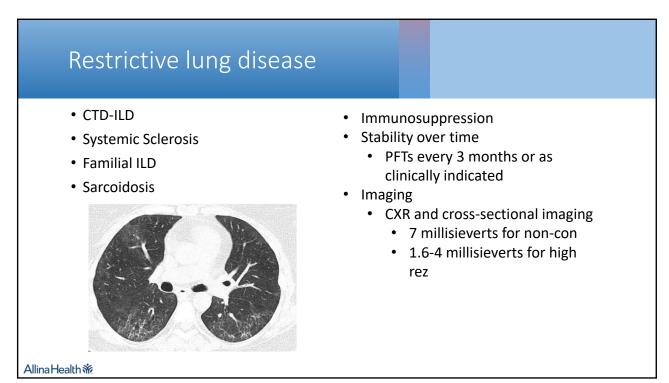
Monoclonal antibodies in asthma

- Benralizumab, IL-5 alpha receptor blocker
 - Animal study with monkeys, no observed teratogenicity
 - Case report with late preterm delivery by C-section
 - Registry: mothertobaby.org/fasenra
- Dupilumab, IL-4Ralpha blocker, blocks IL-4 and IL-13 responses
 - Animal study with monkeys, no observed teratogenicity
 - Case series, no reported teratogenic effects
 - Registry: www.mothertobaby.org/ongoing-study/dupixent
- Tezepelumab, TSLP blocker
 - Animal studies with monkeys no teratogenic effects
 - No registry available

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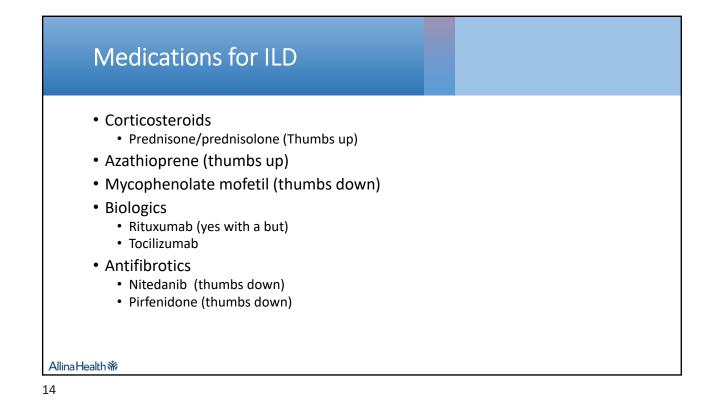


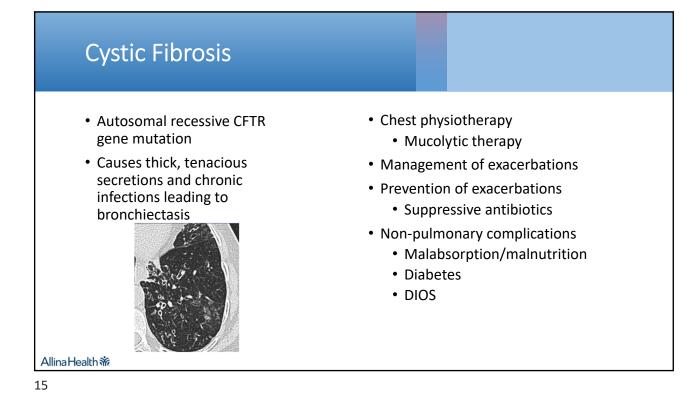
Pregnancy related changes in PFTs

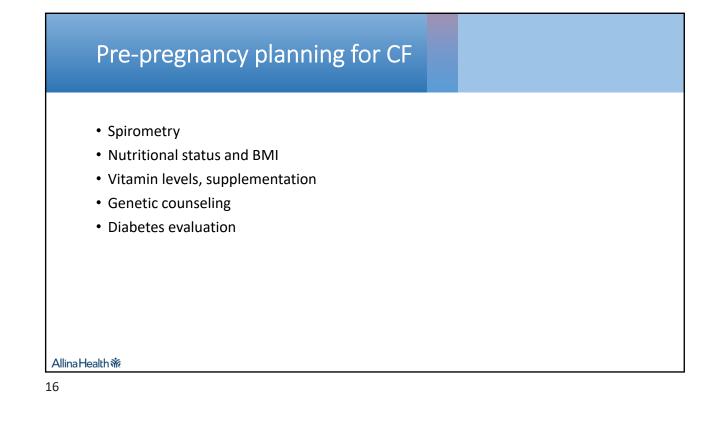
- Reduction in FRC
- Exertion and change in tidal volume before respiratory rate
- Dyspnea related to limitation in FRC

13

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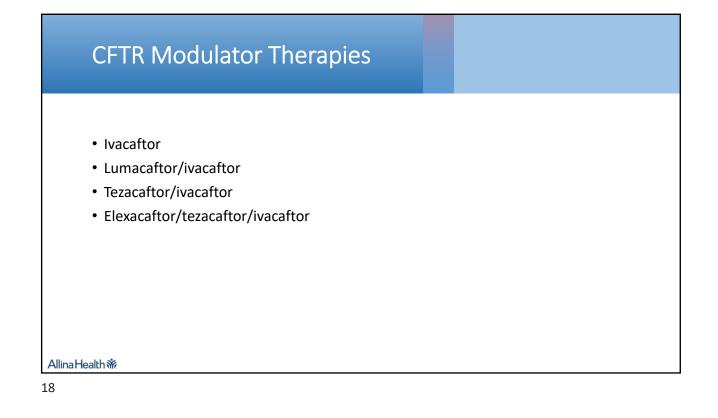




Exacerbation prevention in CF

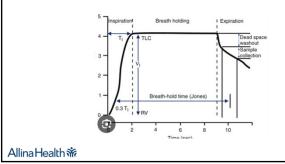
- Chronic azithromycin therapy
- Inhaled antibiotics
 - Tobramycin, Aztreonam, Colymycin, Levofloxacin

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Pulmonary arterial hypertension

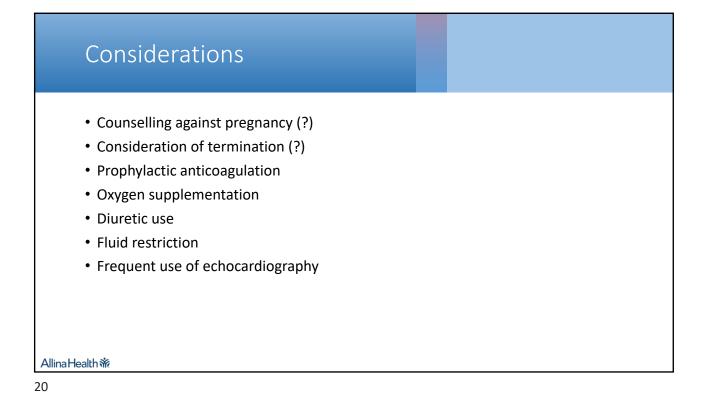
- Obliterative vasculopathy (capillary dropout)
- Right ventricular failure
- Isolated reduction in DLCO

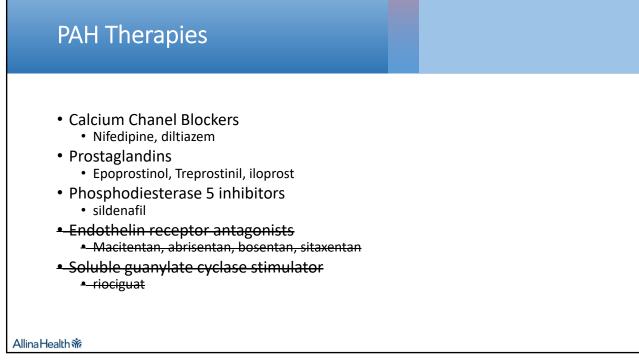


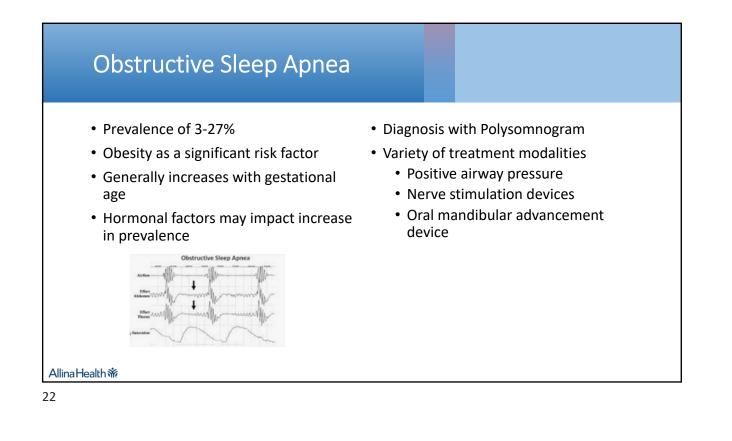
Establish underlying diagnosis

- WHO groups
- Establish functional class
 - WHO functional class
 - NYHA functional class
- Fluid management
- Medication management

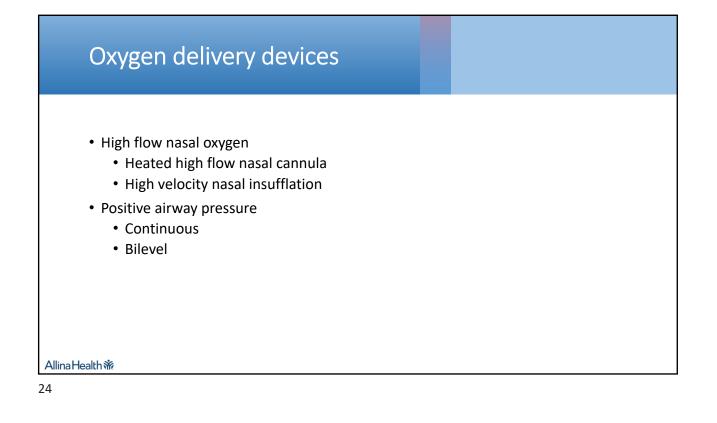


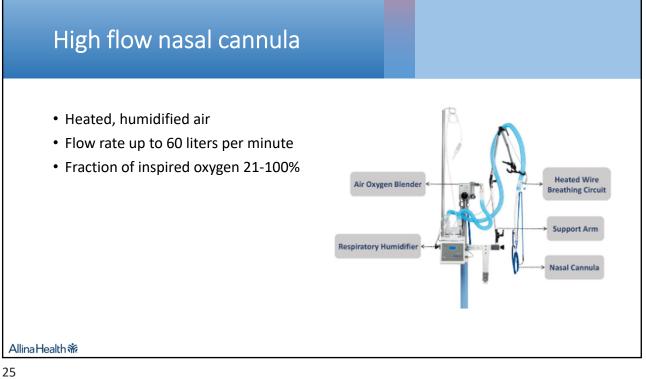


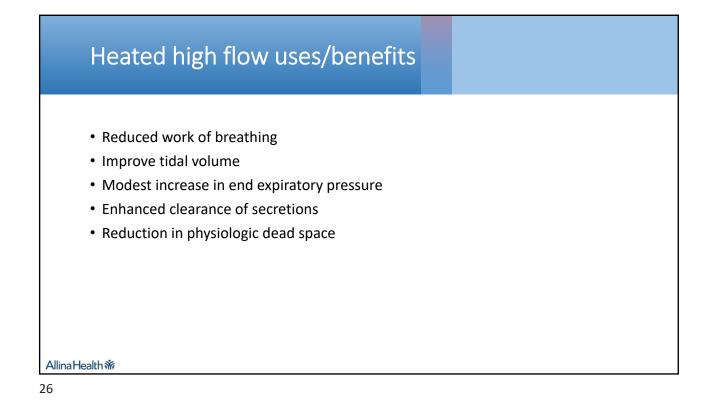




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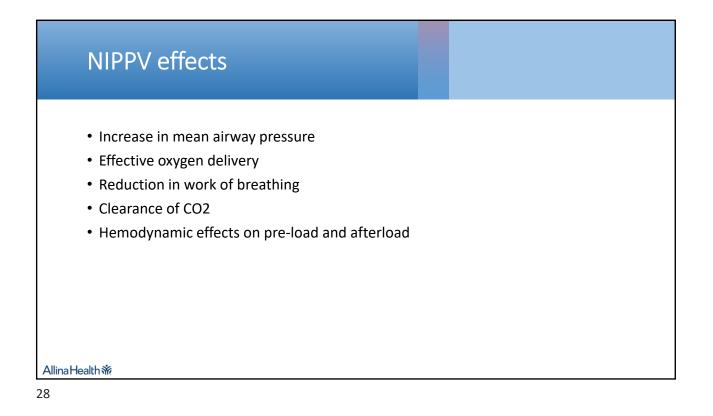






Non-invasive Positive Pressure Ventilation





Recognition of deterioration

- What is "stable"?
 - What does the trajectory look like and how quickly are things changing?
 - Physical evaluation, distress, respiratory muscle use
 - · Beware minimizing symptoms, dyspnea or distress
- What tests to order, how to interpret?
 - ABG vs VBG
 - Imaging
- When to call for help?

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