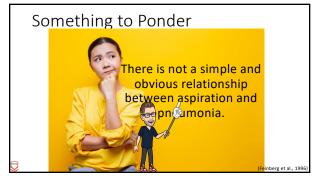


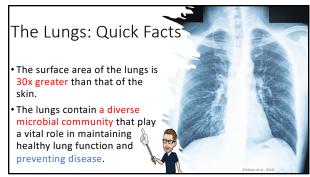
Disclosures

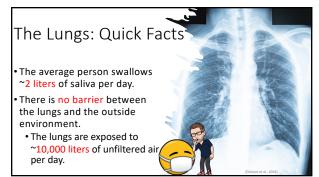
•Financial: none

•Non-Financial: none

2







5

Pneumonia: Quick Facts

- There are an estimated 1.5 million cases of community acquired pneumonia (CAP) in the U.S. each year.
 - 1 in 3 patients with CAP die within one year of developing CAP.

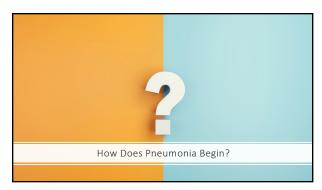


Pneumonia: Quick Facts

Healthcare acquired pneumonia (HCAP) is one of the most common nosocomial infections and accounts for more deaths than other nosocomial infections.

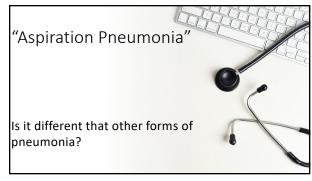


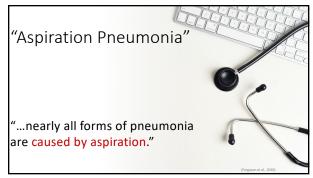
7

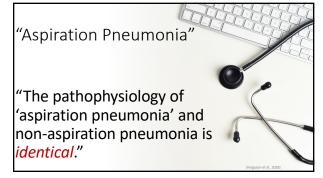


8



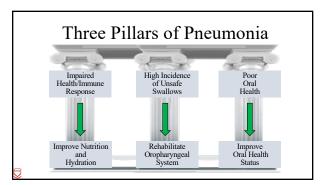


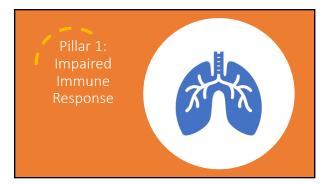


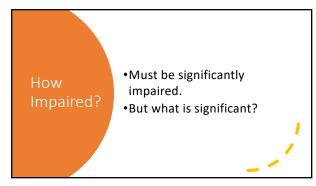


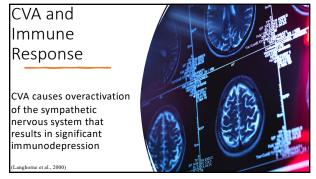












CVA and Immuno-Suppression

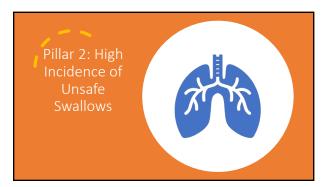
- •Most Common Infections Post-CVA
 - •24% developed UTI
 - •22% developed chest infections
- •19% developed other infections

(Langhorne et al., 2000)

19



20



Prandial Aspiration and Pneumonia

- Dysphagia is a consistent pattern of behaviors.
- Dysphagia alone is insufficient for the development of pneumonia (Campbell-Taylor, 2008).

22

Altered Diets and Thickened Liquids

- •Thickened liquids are ordered for up to ¼ of all long-term care residents.
- •30-45% of residents in rehabilitation facilities receive modified diet textures.

23

Prandial Aspiration and Pneumonia •"There is no convincing evidence to suggest that texture modified foods and thickened liquids benefit adults with dysphagia by preventing pneumonia and its consequences."

(O'Keeffe, 2018)

Body of Evidence

- •Over 20 rigorous and welldesigned studies
- •Covering 28 years (since 1996)
- •Results continue to agree that aspiration alone is unsufficient to develop pneumonia

[Abdelhamid et al., 2016; Alagiakrishnan et al., 2013; Anderson et al., 2013; Bassis et al., 2015; Beck et al., 2017; Bliney et al., 2003; Campbell-Taylor, 2008; Feinberg et al., 1996; Folley et al., 2008; Greeganage et al., 2012; Hanson et al., 2011; Hines et al., 2010; Jones et al., 2016; Knuijt et al., 2011; Loeb et al., 2003; Palinter et al., 2017; Saksabita et al., 2014; Speyer et al., 2010; Steele et al., 2015; Thomas, 2008; Vogel et al., 2015)

25

Modified Diets: Known Complications • Interfere with medication absorption • Slowed digestion/delayed gastric emptying

- Malnutrition
- Dehydration, poor recovery from illness, debilitation, prone to infections
- Dehydration
 - Renal failure, constipation, UTI, impaired mental status, respiratory infection, hypotension, delirium, poor recovery from illness, fever

- Increase economic cost
- Significantly reduced quality of life
 - Patient descriptions: "vile" & "awful"

(Begum, 2010; Cichero, 2013; Mukand, 2003; Nadel, 1980; O'Keeffe

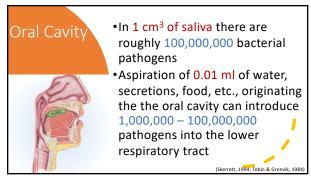
26

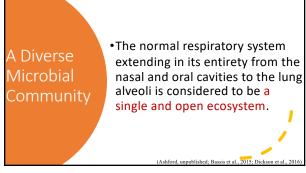


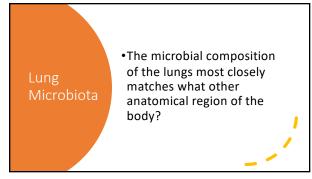
Interference with Daily Life

• "Modified diets are a more intrusive intervention than any medication and are widely used in the absence of a high-quality evidence base."









Aspiration:
Good or Bad?

"Collectively, these observations support an emerging model that exposure to oral-derived microbiota (notably Prevotella spp.) during health is part of the central homeostatic processes that regulate pulmonary inflammatory processes."



