

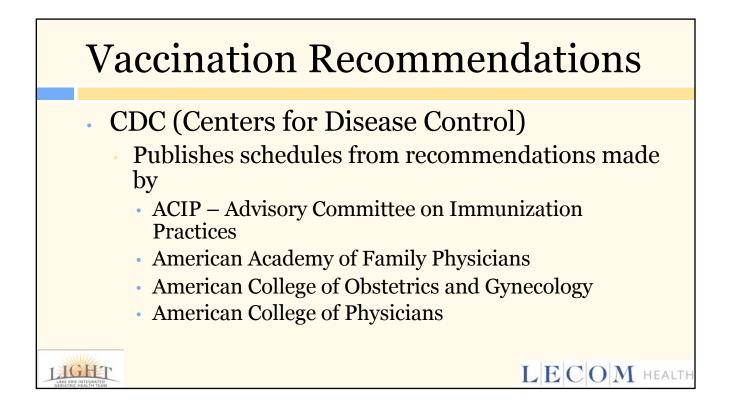
Community Immunity

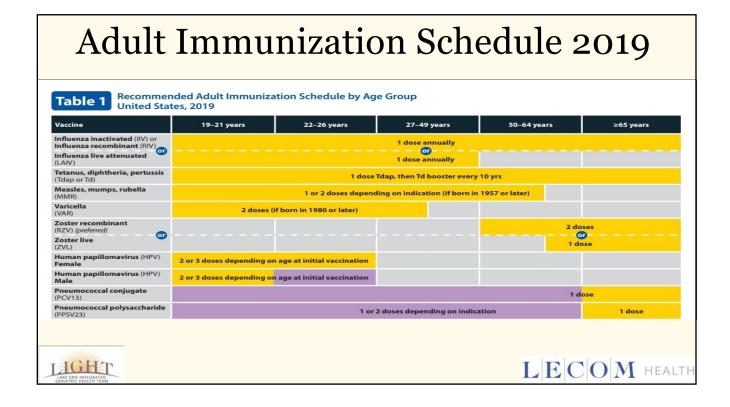
- Ro (R naught) is the number of people predicted to become infected by one person
- Ro for influenza is about 1.5
- Ro for pertussis is about 15
- Ro is the basis for calculating threshold
- Example: Ro for measles is about 15
 - (Unvax pop): 1 15 225 3375 50,600 people
 - (Vax pop 90%): 1 2 3 5 8 people

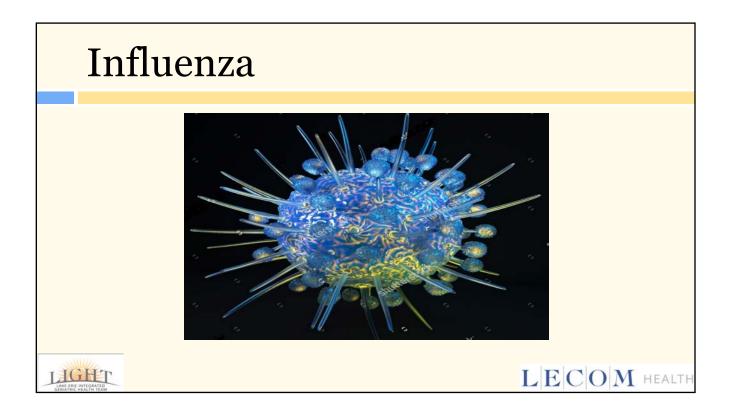
LIGHET LARE ERIE INTEGRATE

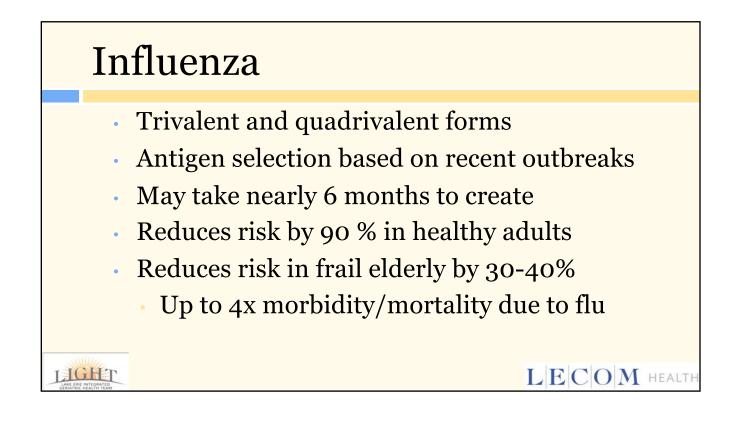
L|E|C|O|M health

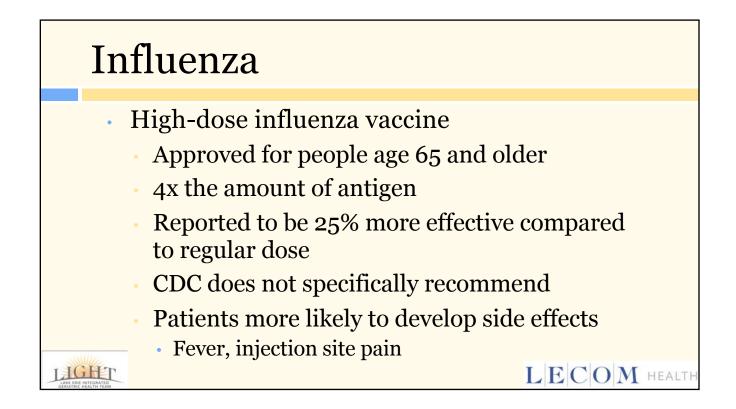
Community Immunity				
	Disease	R0	Threshold (%)	
	Mumps	4-7	75–86	
	Polio	5-7	80–86	
	Smallpox	5-7	80–85	
	Diphtheria	6-7	85	
	Rubella	6-7	83–85	
	Pertussis	12-17	92–94	
	Measles	12-18	83–94	
LAKE ERIE INTEGRATED GERIATEIC HEALTH TEAM				${ m M}$ Health

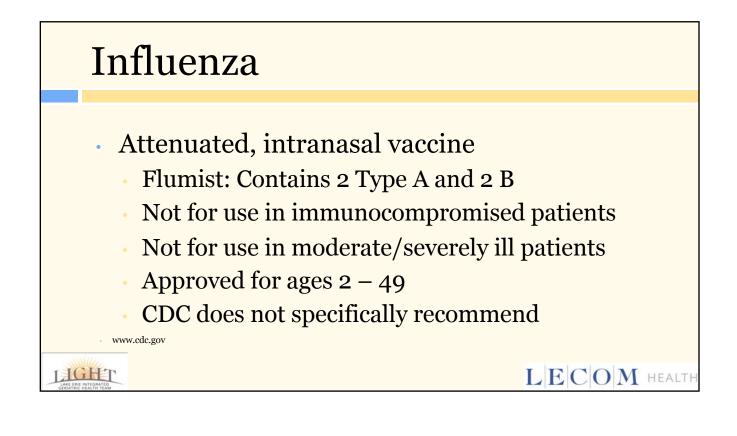


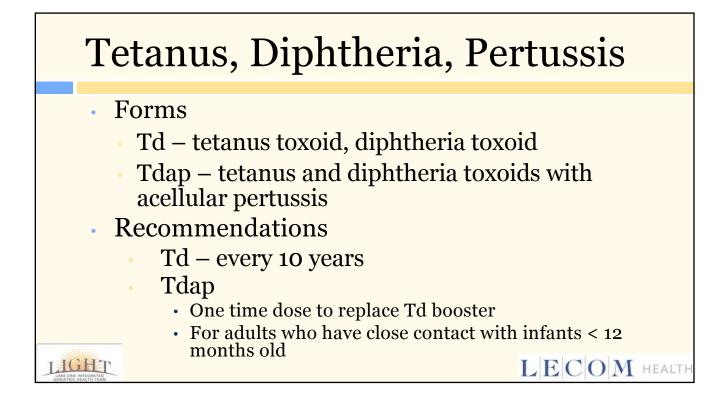


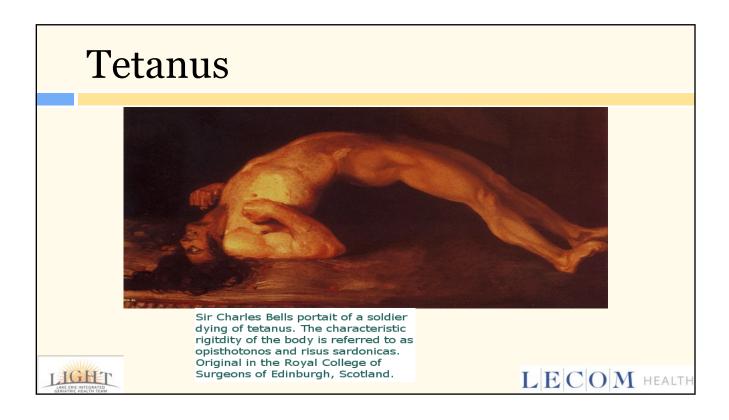


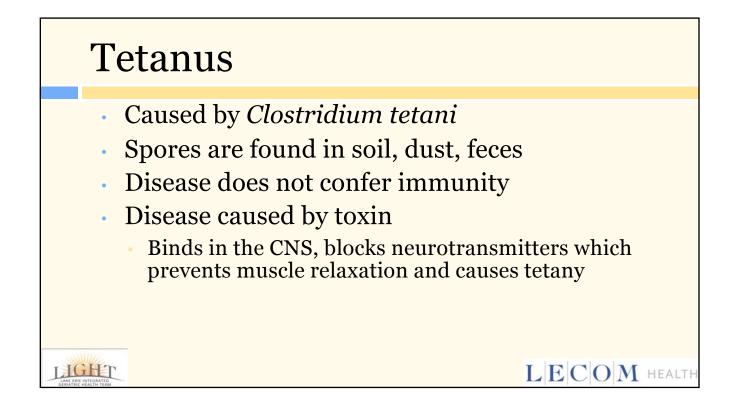


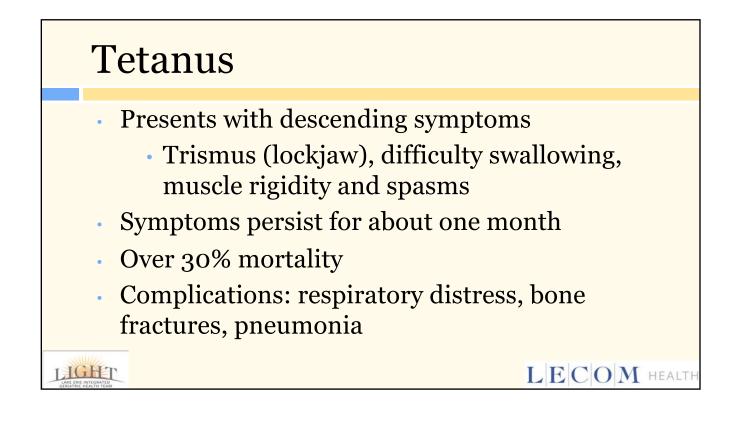


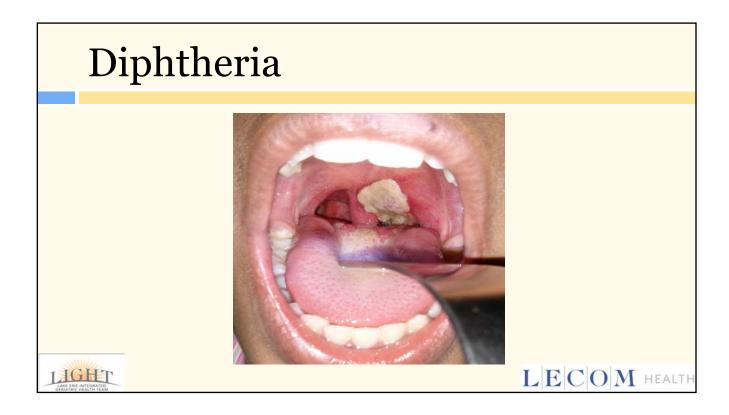


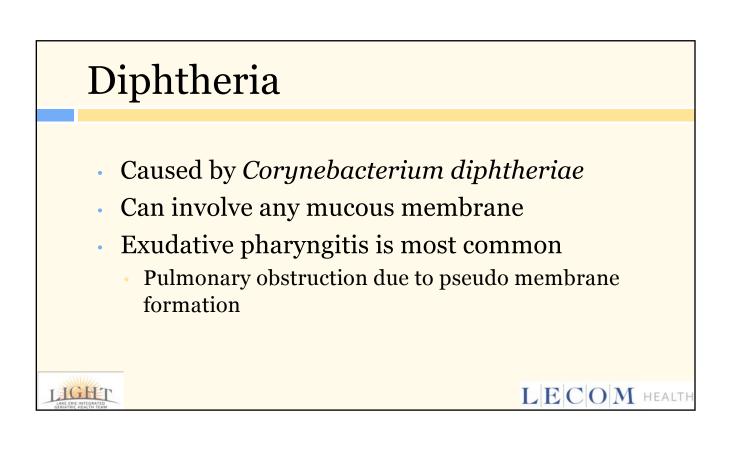


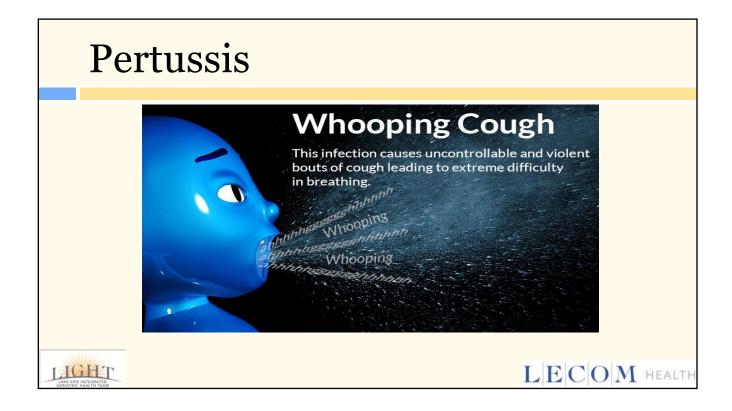


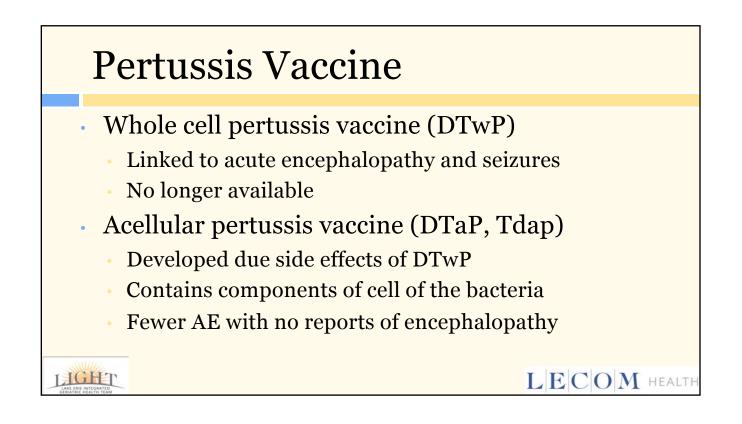












Acellular Pertussis Vaccine

- Less effective than whole-cell vaccine
- Give one Tdap in place of tetanus booster
- Immunized patient may be carriers
- Recent resurgence in whooping cough
 - Possibly due to immunized carriers

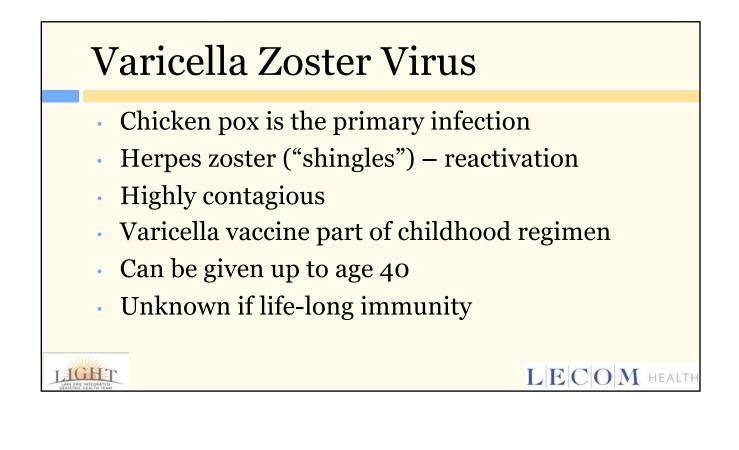
LIGHT

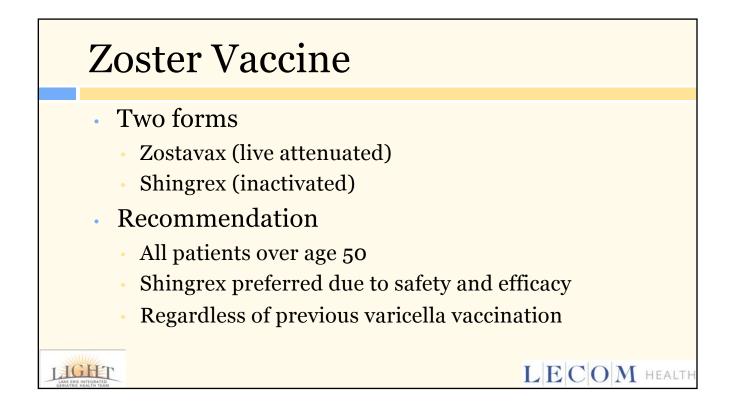
- Not having received adult booster (Tdap)
- Unimmunized patients create reservoir of disease

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LECOM Health





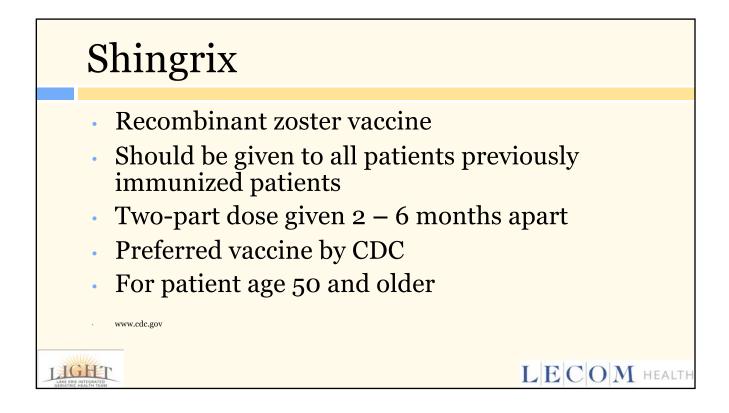


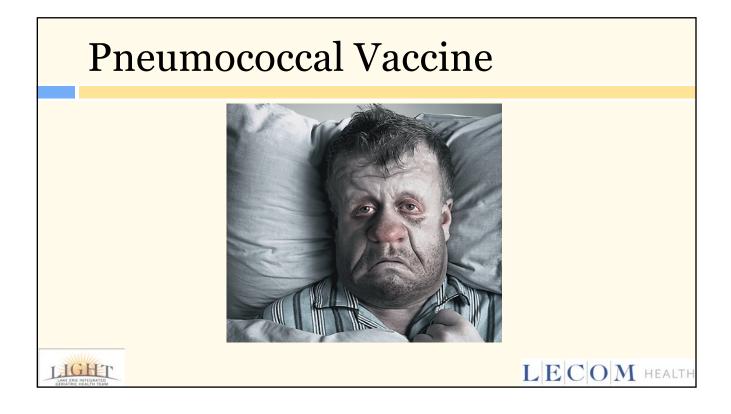
Zostavax

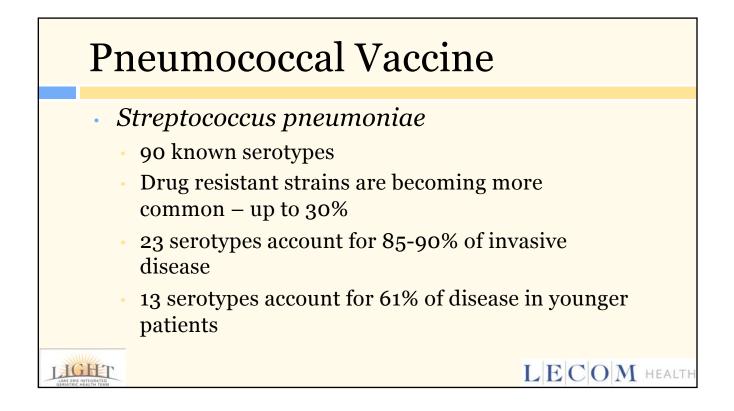
- Identical to varicella vaccine (attenuated) but with ~15x higher titer
- About 50% effective
- Can not be given to immunocompromised
- CDC recommends to adults 60 and over

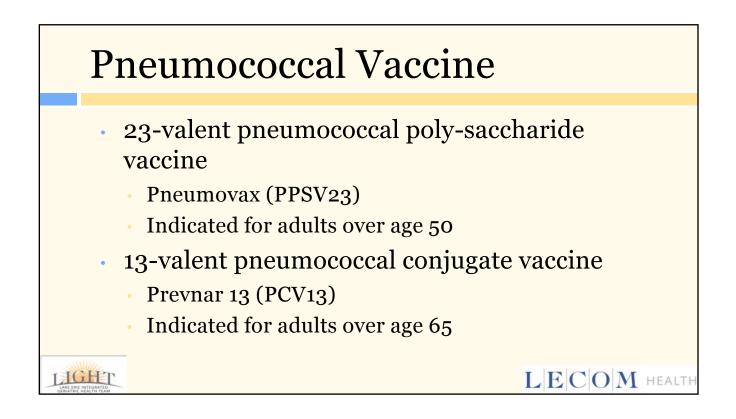
www.cdc..gov

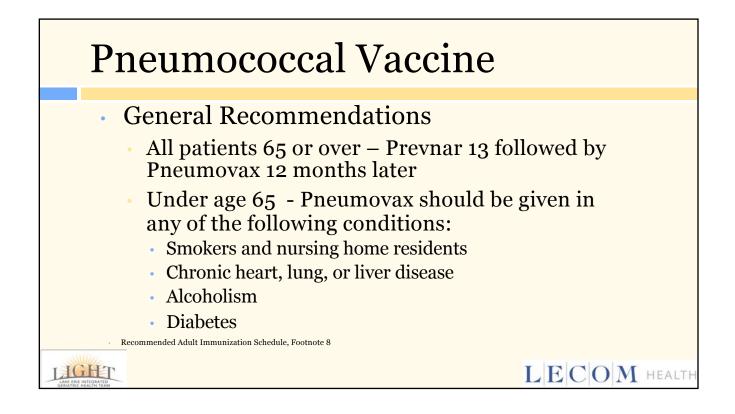
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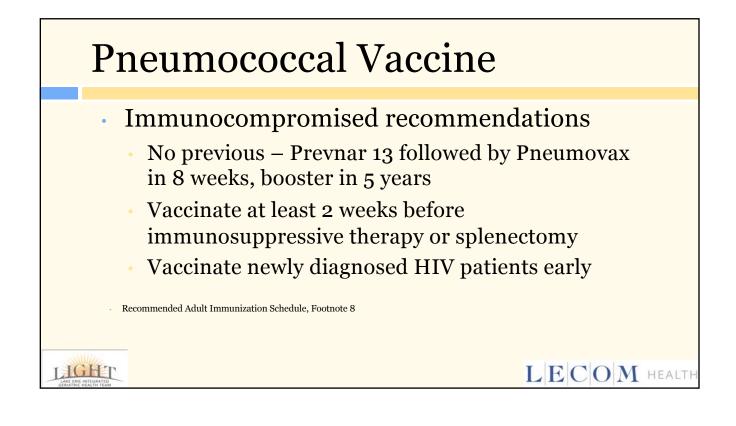


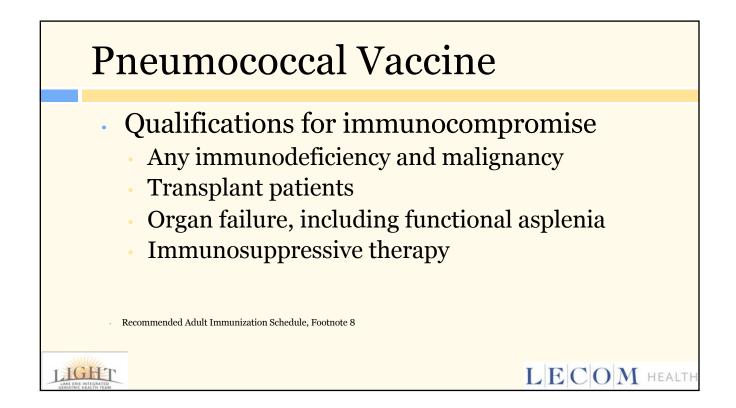


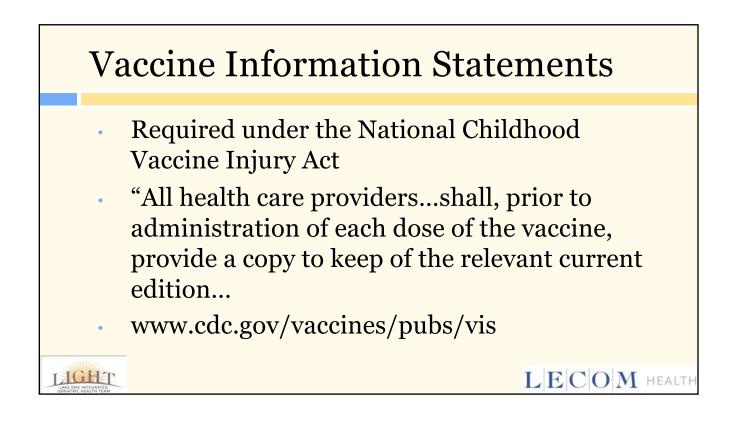


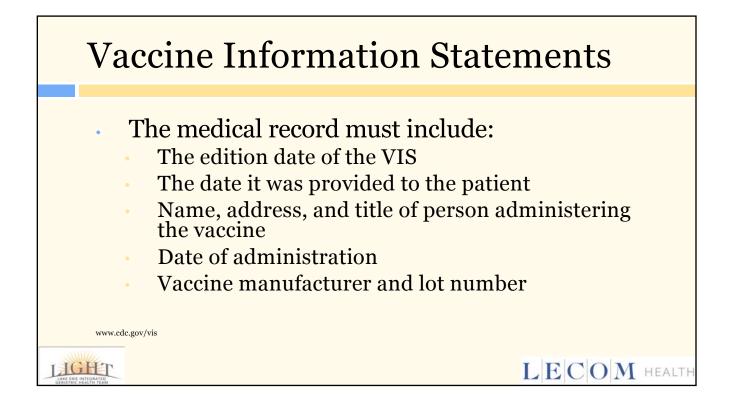


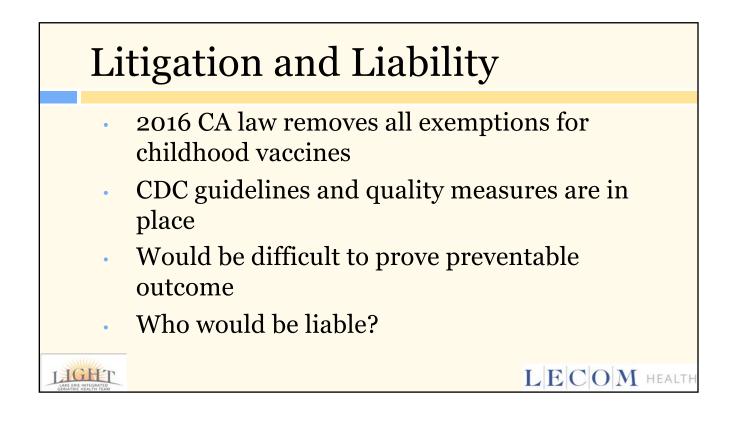


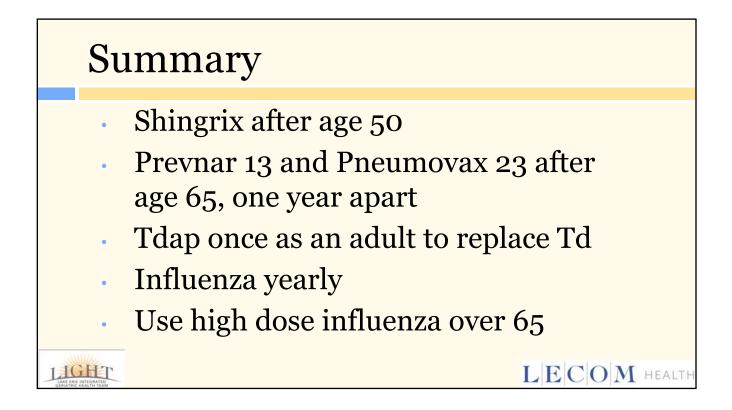


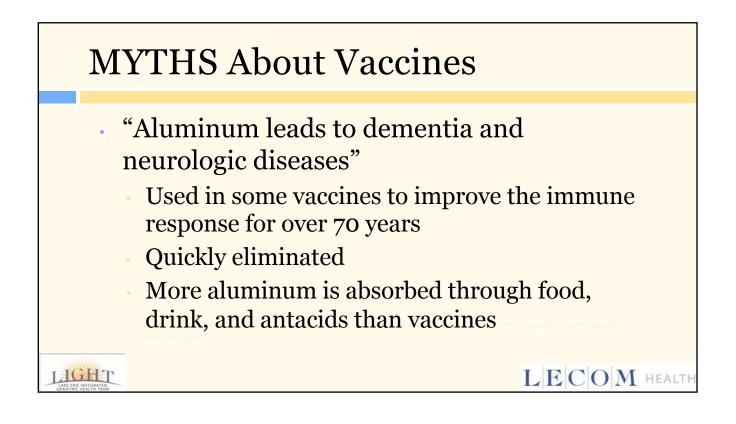


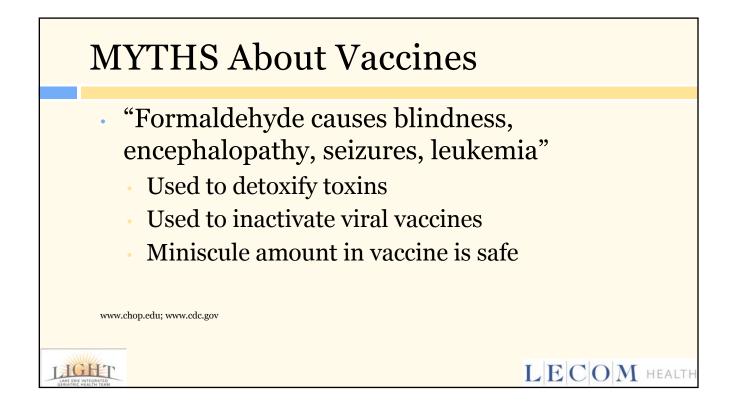


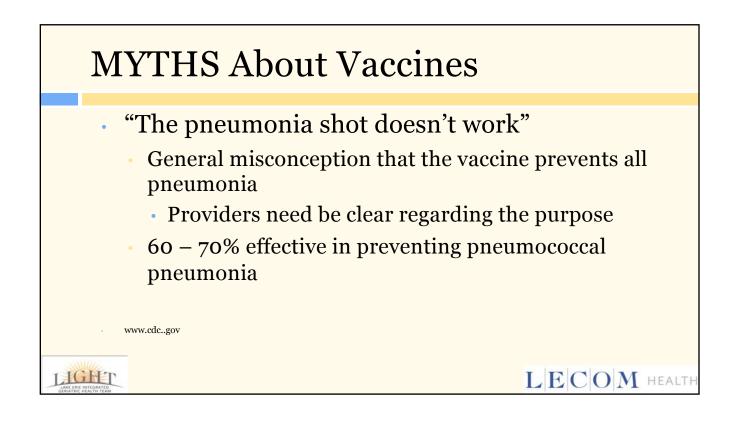


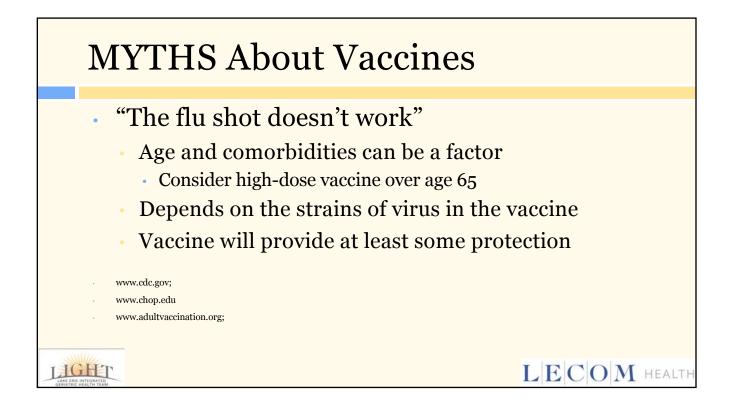


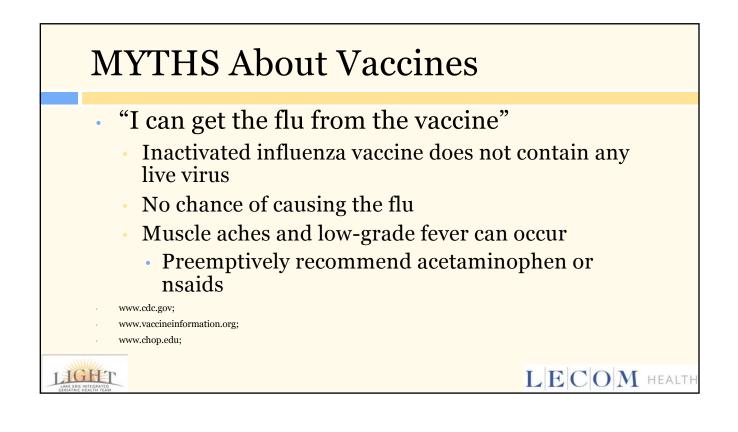


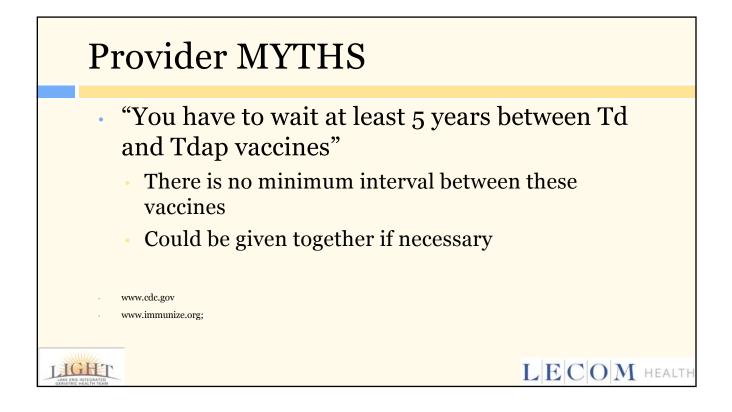


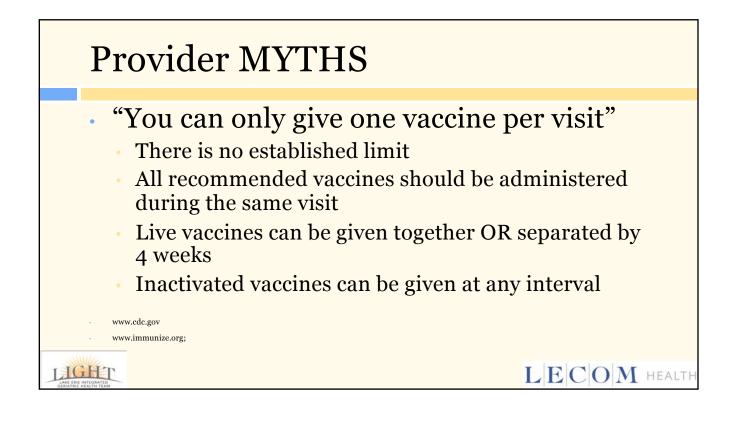


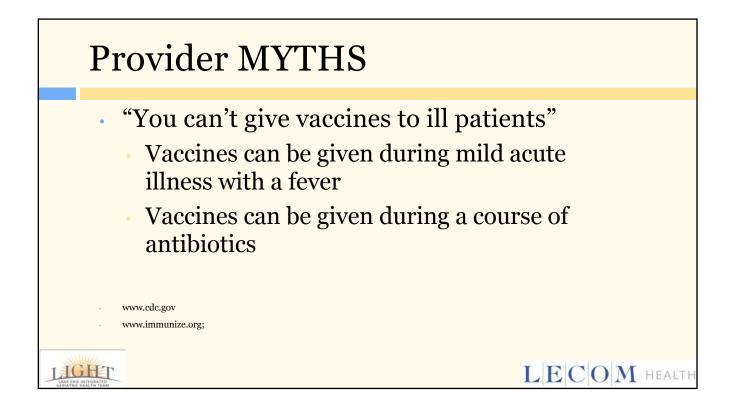


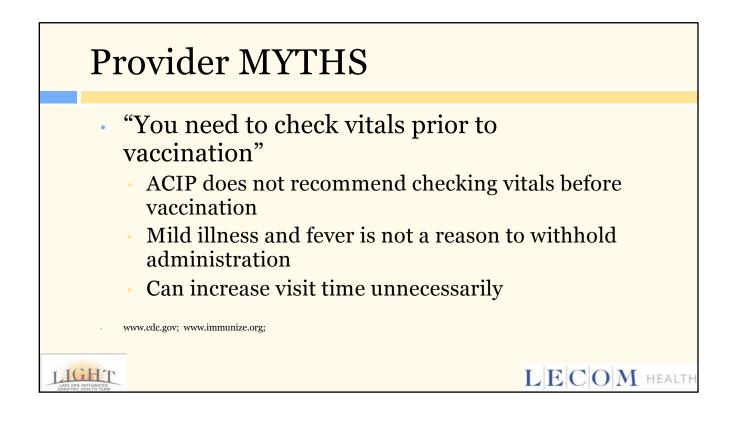








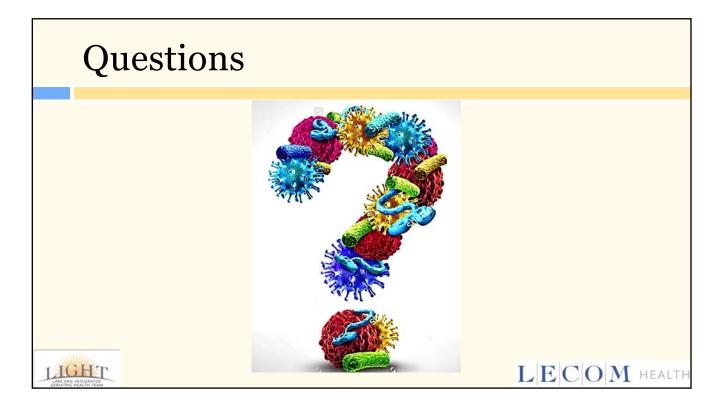




Resources

- American Geriatric Society www.jags.com
- British Society of Rheumatology
- CDC www.cdc.gov/vaccines/
- Immunization Action Coalition www.immunize.org/
- Morbidity and Mortality Weekly Report www.cdc.gov/mmwr/
- National Foundation for Infectious Diseases www.nfid.org/
- National Network for Immunization Information www.immunizationinfo.org/
- Natural News www.naturalnews.com
- US Pharmacist www.uspharmacist .org
- Vaccine Adverse Event Reporting System vaers.hhs.gov/
- WebMD www.webmd.com

LIGHT



LECOM HEALTH