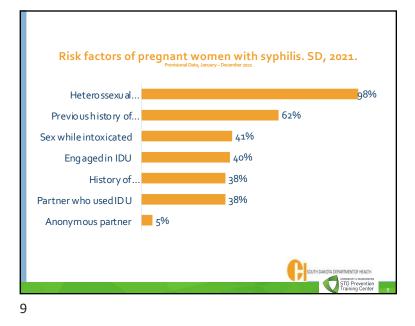
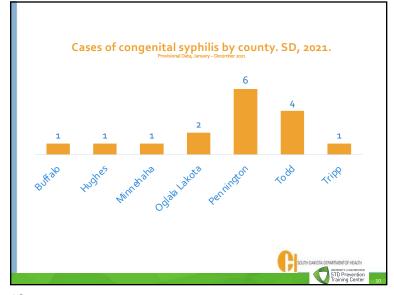
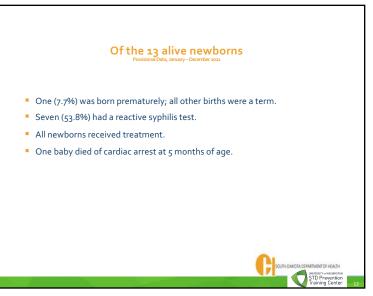


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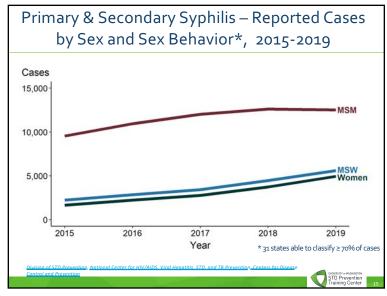
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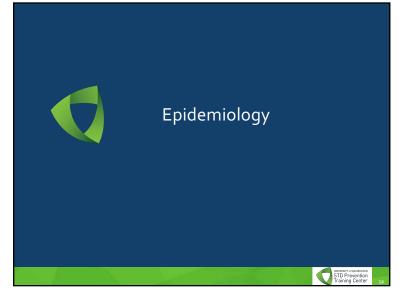


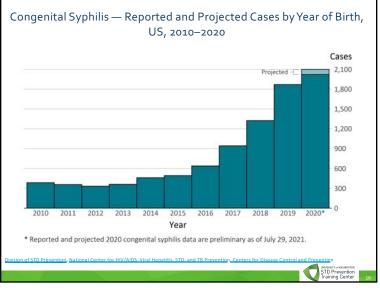


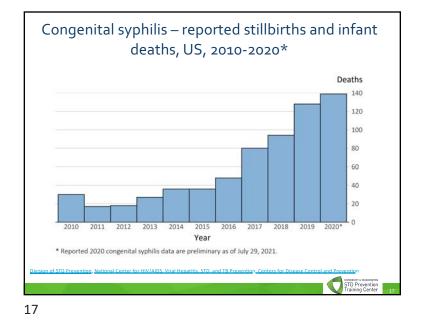


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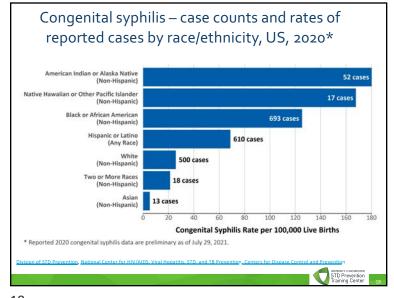






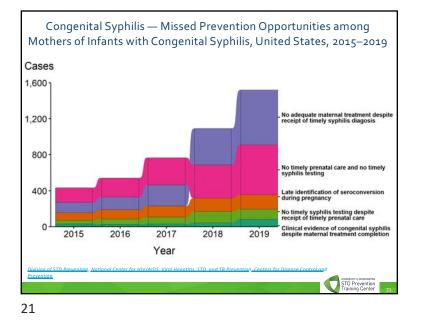


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2021 0	DATA Provisional Advance of 3 1,122
ADULT SYPHILIS	CONGENITAL / SYPHILITIC STILLBIRTHS
874 Infections Reported 522% Increase from 2020	16 Congenital and 4 Syphilitic Stillbirths 300% Increase from 2020
1,050% Increase from 5-Year Median	700% Increase in 5-Year Median
93% heterosexual exposure     45% history of other STIs     45% history of incarceration     75% American Indian     59% Reported age range of 25-39 years-old     This is a preventable disease: awarer imely treatment is key to preventio	<ul> <li>36% sex while intoxicated</li> <li>27% used IV drug use</li> <li>21% cases reported among an institutionalized population</li> </ul>
alk to public health if suspected cas	

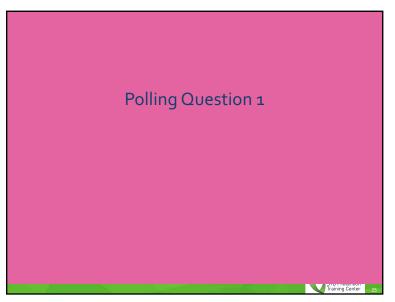


### Patient Case

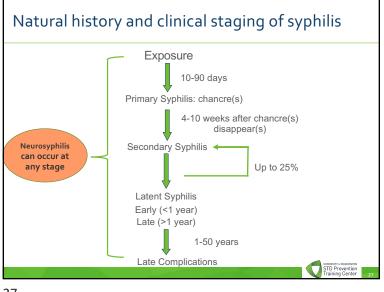
- Your patient is a 37 year old pregnant woman who presents to your clinic for routine testing.
- She has no symptoms, but has a positive RPR titer of 1:8 found on routine screening.
- Her confirmative TPPA is also reactive.
- She tests on occasion, and her last test was negative 2 years ago.



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### Congenital syphilis

- Transplacental infection can occur during any stage of syphilis and at any time during gestation
- Results in spontaneous abortion, stillbirth, infant with active or latent syphilis
  - High morbidity and mortality

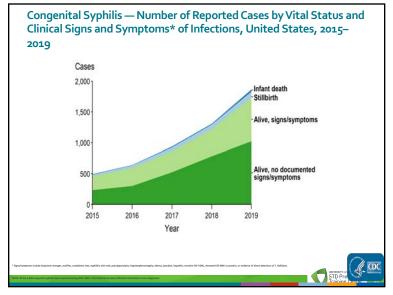
Bates' Guide to Physical Examination and History Takina. 8th ed: eurorad.or

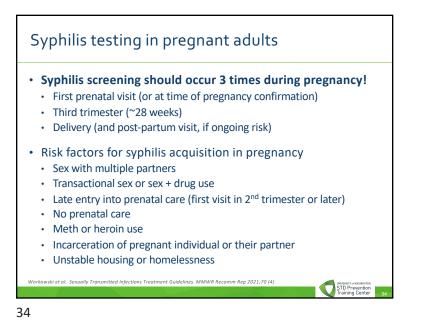


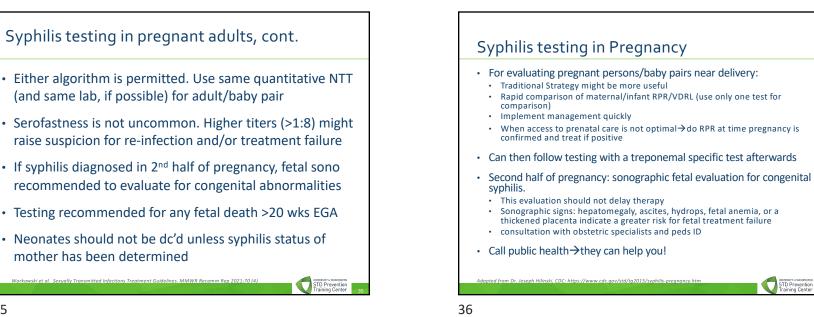












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### Case

- 29 yo pregnant woman seen for first pregnancy visit. Her syphilis screening comes back with a reactive RPR (1:2) and a syphilis IgG that is positive.
- She recalls that she was treated for secondary syphilis 2 years ago. You obtain records and see that her initial titer was 1:256.
- After treatment, the RPR had fallen to 1:16 at six months, then to 1:2 at 1 year.
- The titer remained at 1:2 two years later.

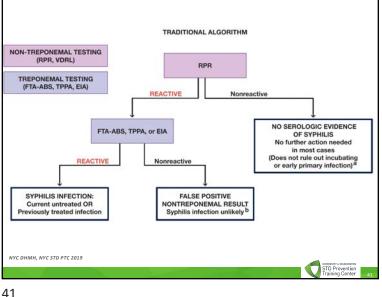
# STD Prevention

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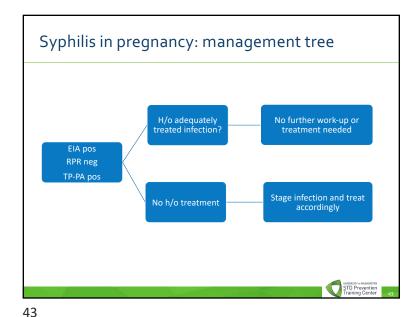
STD Preventio Training Cente

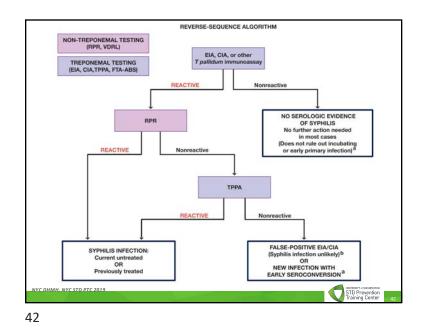
# Polling Question 2

Training Center

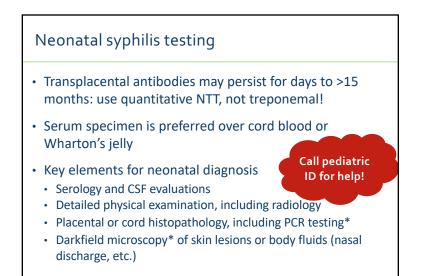


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Workowski et al. Sexually Transmitted Infections Treatment Guidelines, MMWR Recomm Rep 2021:70 (4.

45

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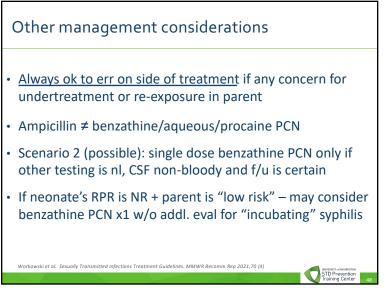
Scenario	Exam	Titer relative to mother	Other considerations	Management <sup>∆</sup>
Proven/ Probable	Abnl*	e ≥4x <u>o</u>	Positive darkfield, PCR, silver stain from placenta, cord, lesions, body fluid	Aqueous crystalline PCN G IV x10 days or procaine PCN G IM daily x10 days
Possible	Normal *		Mother inadequately treated (non-PCN tx) or within 30 days of delivery	May treat as above or with benzathine PCN G IM x1
Less likely	Normal	≤4x	Mother appropriately treated >30 days prior, no relapse/reinfection	Benzathine penicillin G IM x1 or monitor for RPR decline
Unlikely	Normal	≤4x	Mother appropriately treated and titer low/stable	No treatment, follow serologically
<sup>A</sup> No missed no significa	d doses perm nt bilirubiner	nitted. Ceftriaxo mia, infant unab	g bone XR, other clinically indicat ne IV may be ok if aqueous crysta ole to tolerate IM – consult pediat t Guidelines. MMWR Recomm Rep 2021;70 (4)	alline PCN shortage,

Neonatal evaluation and treatment scenarios



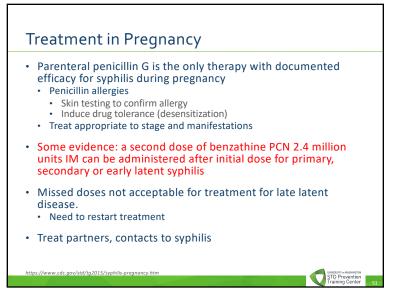
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STD Prevention Training Center

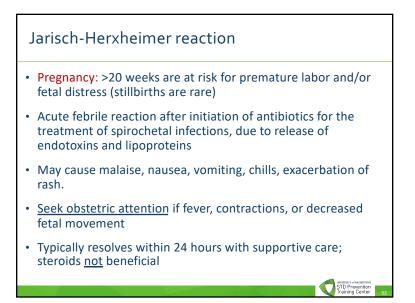


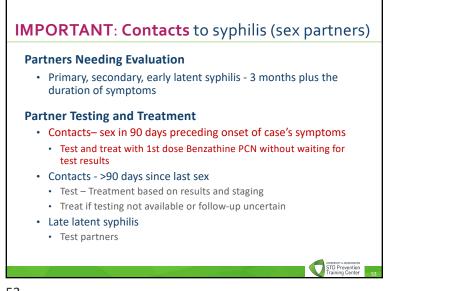


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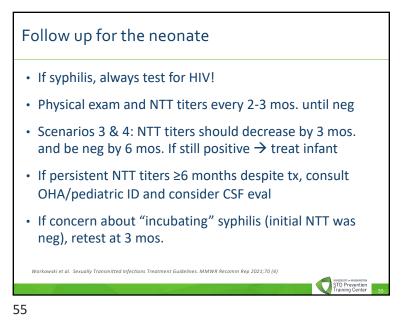


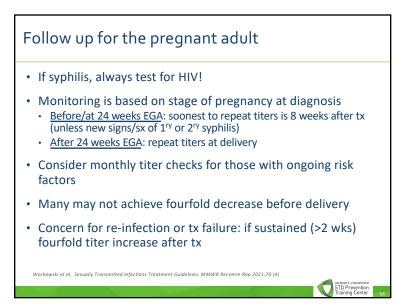
able. Treatment recom	mendations for syphilis during pregnan	су
Primary	Benzathine penicillin G 2.4 million units	For HIV-positive women,
Secondary	intramuscularly (IM) x 2	administer at least two doses of
Early non-primary, non-		benzathine penicillin G 2.4
secondary	abnormalities on sono	million units IM and strongly
		consider three doses
Late syphilis (>1 year or	Benzathine penicillin G 2.4 million units	
unknown duration) Neuro or ocular syphilis	intramuscularly (IM) weekly x 3 Penicillin 4 million units intravenously	
Neuro or ocular syprillis	every 4 hours for 10-14 days	
,	; in 2 <sup>nd</sup> and 3 <sup>rd</sup> trimester tween doses is 7 days; up to 9 days course	may be permitted,
<ul> <li>If PCN-allergic: urg</li> </ul>	ent skin testing to confirm $ ightarrow$ dese	nsitization
		ntacts tested and treated!



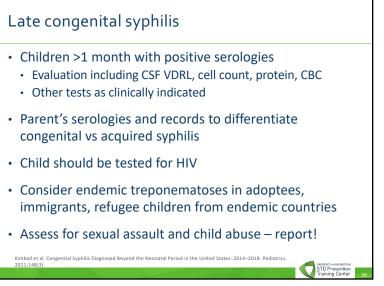


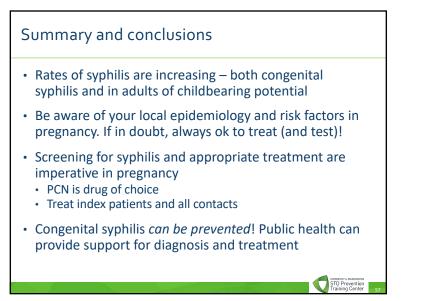
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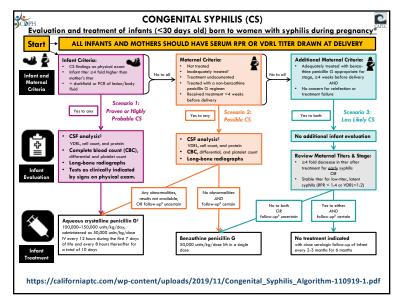
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<ul> <li>PRENATAL CARE PROVIDERS</li> <li>All pregnant women should be screened for syp</li> <li>At first prenatal appointment or at time of initial pregnancy diagnosis if concerned for poor follow up</li> </ul>	hilis <u>three times</u> during pregnancy during this outbreak settin At 28 weeks At delivery
All pregnant women delivering a stillbirth (gest	ational age ≥20 weeks)
seen in emergency rooms and urgent care for rear reproductive age (15-45 years) and sex partners to	r, some of those same women and/or their partners were sons other than prenatal care. Screening women of o women of reproductive age can reduce congenital syphilis.
ADEQUATE TREATMENT FOR INFECTED CASE DL     Completion of a penicillin-based regimen, ap     before delivery.	RING PREGNANCY propriate for stage of infection, initiated 30 or more days
	cillin. If allergic, she must be desensitized and treated to
No infant should leave the hos serological status documented	
	UNITED STD Preventio



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## Your best friends

### DISEASE INTERVENTION SPECIALIST (DIS) CONTACT INFORMATION

Contact your local DIS with syphilis questions or if you need assistance contacting a client for testing, treatment, and counseling for syphilis, HIV/AIDS, and other sexually transmitted infections.

Aberdeen	Mobridge	Sioux Falls
402 S. Main St.	210 East Grand Crossing, Suite A	4101 West 38 <sup>th</sup> St., Suite 102
Aberdeen, SD 57401-4127	Mobridge, SD 57601	Sioux Falls, SD 57106
Toll-free: 1-866-805-1007	Toll-free: 1-833-618-2740	Toll-free: 1-866-315-9214
Pierre	Rapid City	Watertown
740 E. Sioux, Suite 107	909 E. St. Patrick, Suite 10	2001 9 <sup>th</sup> Ave. SW #500
Pierre, SD 57501-3395	Rapid City, SD 57701	Watertown, SD 57201-4038
Toll-free: 1-866-229-4927	Toll-free: 1-866-474-8221	Toll-free: 1-866-817-4090
Mitchell 1420 North Main St. Mitchell, SD 57301 605-995-8051	Main office Toll-Free: 800-592-1861	



