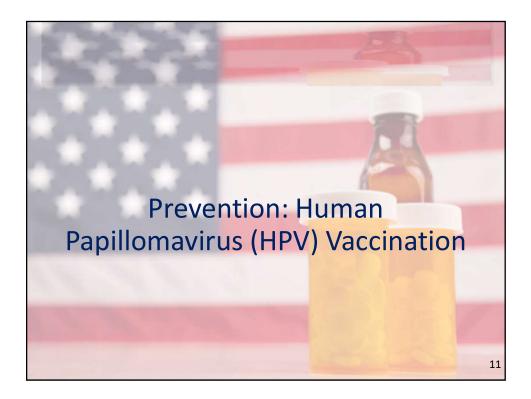
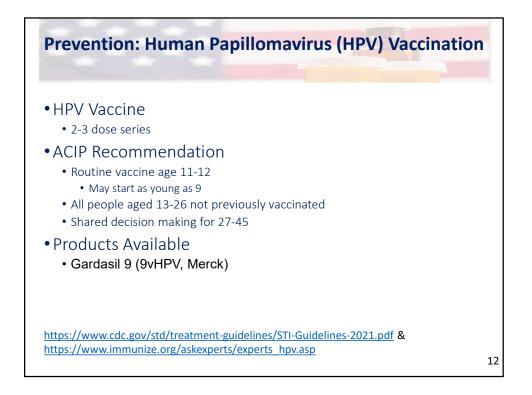
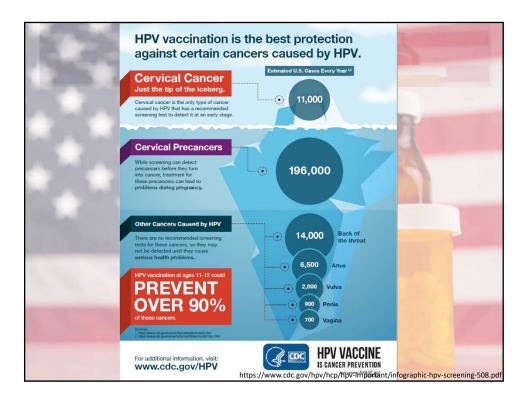
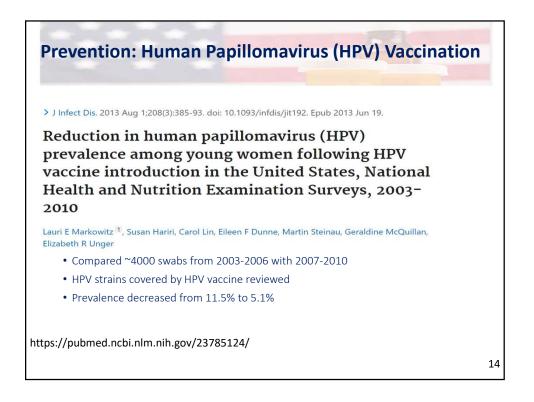


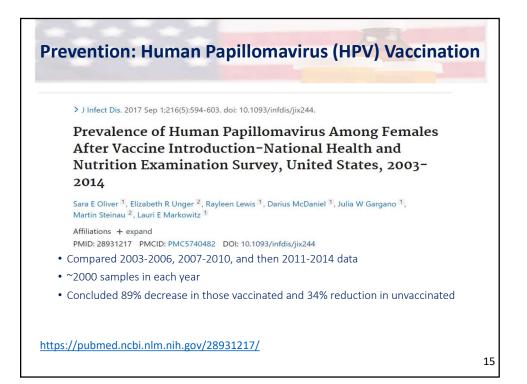
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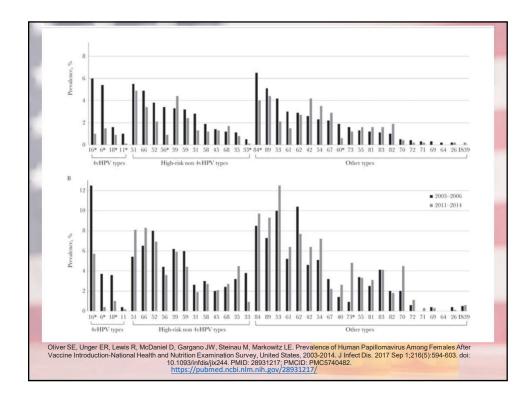






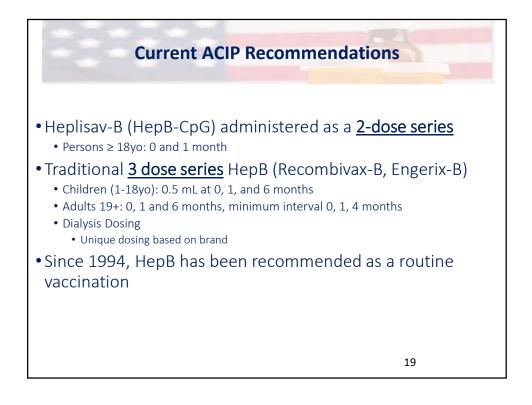


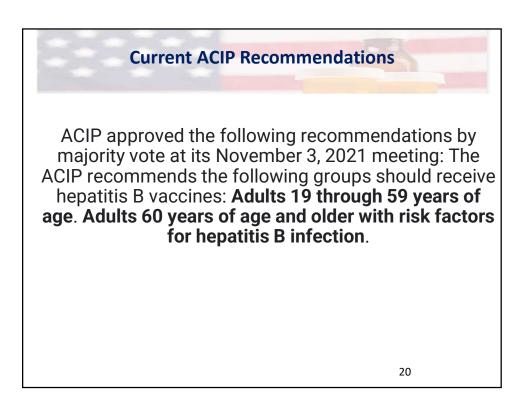


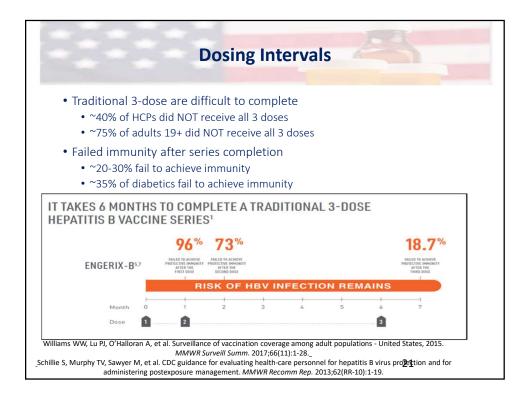


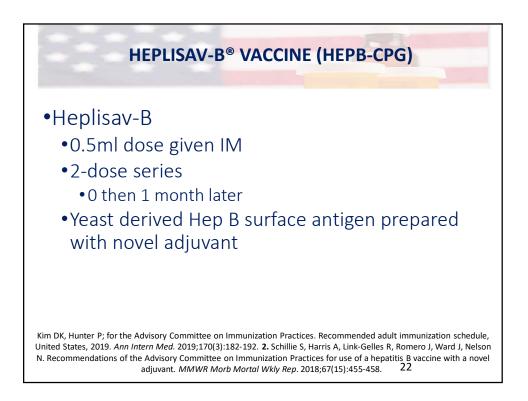
	HPV Vaccination Rates							
ABLE 1. Estimated vaccina ational Immunization Sur	tion coverage with select vey–Teen, United States	ed vaccines and , 2020	l doses among a	adolescents age	d 13–17* years,	by age at inter-	riew —	
	Age at intervie	w (yrs), % (95% Cl)'			Total, % (95% C	D,	
	13	14	15	16	17	2020	2019	
Vaccine	(n = 4,276)	(n = 4,173)	(n = 3,998)	(n = 4,028)	(n = 3,688)	(N = 20,163)	(N = 18,788)	
HPV ⁸⁵ vaccine								
All adolescents								
≥1 dose	69.4 (66.6- 72.1)	72.3 (69.4- 75.0)	77.6 (75.3– 79.8)**	77.2 (74.7- 79.6)**	79.0 (76.4- 81.4)**	75.1 (73.9- 76.2) ^{¶¶}	71.5 (70.1– 72.8)	
HPV UTD***	45.6 (42.7- 48.5)	56.0 (53.0- 58.9)**	61.9 (58.9- 64.7)**	65.5 (62.6- 68.2)**	64.5 (61.5- 67.4)**	58.6 (57.3- 60.0) ^{\$\$}	54.2 (52.7- 55.8)	
Females								
≥1 dose	71.3 (67.7– 74.7)	72.9 (68.4- 77.0)	78.1 (74.6- 81.3)**	80.3 (76.3- 83.8)**	83.5 (80.8- 85.9)**	77.1 (75.4- 78.7) ^{\$1}	73.2 (71.3- 75.0)	
HPV UTD	48.4 (44.3- 52.5)	57.2 (52.6- 61.7)**	63.7 (59.4- 67.8)**	68.5 (64.0- 72.6)**	70.4 (66.6- 73.9)**	61.4 (59.5- 63.3)**	56.8 (54.6- 59.0)	
Males								
≥1 dose	67.5 (63.2- 71.5)	71.7 (67.9- 75.2)	77.1 (73.9- 80.1)**	74.5 (71.1– 77.6)**	74.8 (70.4- 78.6)**	73.1 (71.5- 74.8) ⁵¹	69.8 (67.9- 71.7)	
HPV UTD	42.7 (38.6- 46.9)	54.8 (50.9- 58.6)**	60.0 (56.1- 63.9)**	62.8 (58.9- 66.4)**	59.0 (54.4- 63.5)**	56.0 (54.1- 57.8)**	51.8 (49.7- 53.9)	











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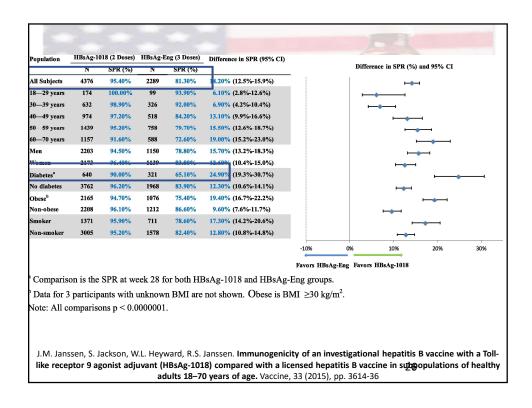
	Study 1
Category	Safety of a two dose investigational hepatitis B vaccine, HepB CpG, using a toll like receptor 9 agonist adjuvant in adults
Population	Adult patients
Intervention	HBsAg-1018
Comparators	HBsAg-Eng
Outcomes	Safety profile and immunologic response
Timing	Followed for 28, 52, and 56 weeks after the first injection
Study design	Randomized, observer-blinded, active controlled, parallel-group, and multicenter
	g B, Jackson S, Janssen R. Safety of a two-dose investigational hepatitis B vaccine, HBsAg-1018, using a toll-like vant in adults. Vaccine. 2018 May 3;36(19):2604-2611. doi: 10.1016/j.vaccine.2018.03.0623 pub 2018 Apr 5. PMID: 29628151.

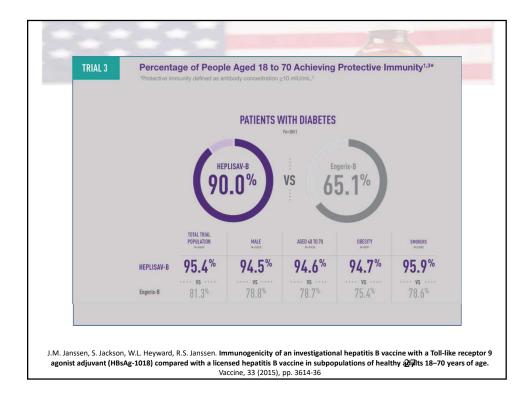
tended adverse events.	njections and unsolicited advers	c crenes and medically
Type of event (Study)	HBsAg-1018	HBsAg-Eng
Post-injection reactions (HBV-10 and HBV-16), N	3762	1084
Any PIR,% (n)	55.1 (2071)	57.1 (619)
Local PIRs,% (n)	42.8 (1612)	41.1 (445)
Systemic PIRs,% (n)	32.3 (1215)	37.4 (405)
AEs (HBV-10 and HBV-16), N	3778	1086
Any AE,% (n)	55.3 (2089)	58.1 (631)
Discontinuation of treatment due to AE,% (n)	0.5 (19)	0.4 (4)
Related,% (n)	6.2 (234)	6.0 (65)
MAEs (HBV-23), N	5587	2781
Any MAE,% (n)	46.0 (2569)	46.2 (1286)
Discontinuation of treatment due to MAE,%	0.6 (32)	0.5 (15)
(n)		
Related,% (n)	1.0 (58)	1.6 (45)
Safety population (HBV-10, HBV-16, HBV-23)	9365	3867
New-onset immune-mediated AESIs	0.17 (16)	0.13 (5)
Bell's palsy,% (n)	0.06 (6)	0.05 (2)
AESI excluding Bell's palsy,% (n)	0.11 (10)	0.08 (3)
Death,% (n)	0.28 (26)	0.21 (8)
Serious AE,% (n)	4.8 (449)	4.8 (184)
Related,% (n)	0.04 (4)	0.1 (5)

Hyer R, McGuire DK, Xing B, Jackson S, Janssen R. Safety of a two-dose investigational hepatitis B vaccine, HBsAg-1018, using a toll-like receptor 9 agonist adjuvant in adults. Vaccine. 2018 May 3;36(19):2604-2611. doi: 10.1016/j.vaccine.2018.03.067. Epub 2018 Apr 5. PMID: 29628151.

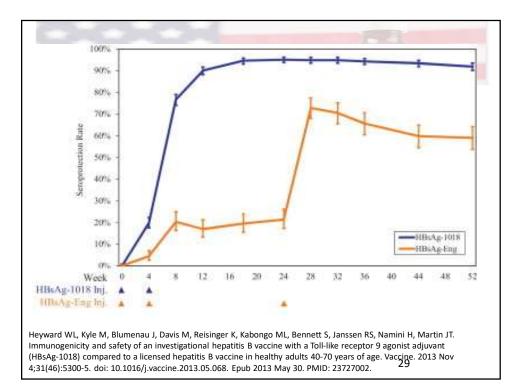
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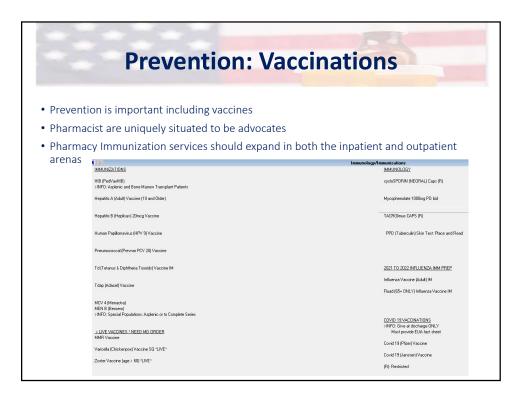
	Study 2
Category	Immunogenicity of a two dose investigational hepatitis B vaccine, HepB- CpG, using a toll like receptor 9 agonist adjuvant compared with licensed hepatitis B vaccine in adults
Population	Adult patients (18-70 years old)
Intervention	HBsAg-1018
Comparators	HBsAg-Eng
Outcomes	Primary: Immunogenicity
Timing	56 weeks after the first injection
Study design	Randomized, observer-blinded, active controlled, parallel-group, and multicenter
	on, W.L. Heyward, R.S. Janssen. Immunogenicity of an investigational hepatitis B vaccine with a Toll-like receptor 9 BsAg-1018) compared with a licensed hepatitis B vaccine in subpopulations of healthy aرابط 18–70 years of age. Vaccine, 33 (2015), pp. 3614-36



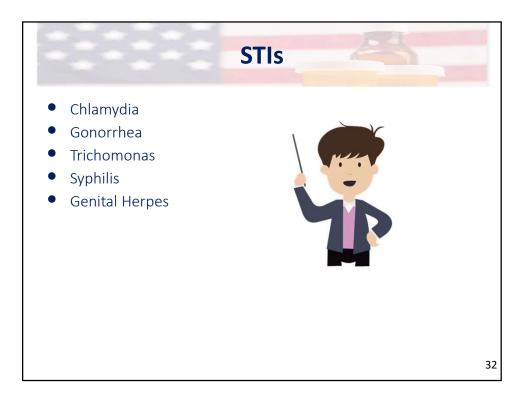


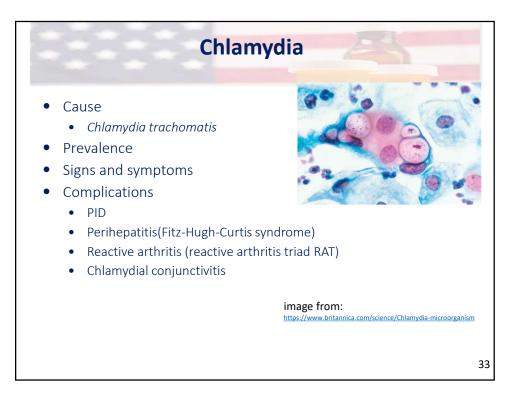
	Study 3
Category	Immunogenicity and safety of a n investigational hepatitis B vaccine with a Toll like receptor 9 agonist adjuvant (HBsAG 1018) compared to a licensed hepatitis B vaccine in healthy adults 40 70 years of age.
Population	Adult patients (40-70 years old)
Intervention	HBsAg-1018
Comparators	HBsAg-Eng
Outcomes	Primary: Immunogenicity
Timing	52 weeks after the first injection
Study design	Randomized, observer-blinded, active controlled, and multicenter
of an investigational he	Blumenau J, Davis M, Reisinger K, Kabongo ML, Bennett S, Janssen RS, Namini H, Martin JT. Immunogenicity and safety epatitis B vaccine with a Toll-like receptor 9 agonist adjuvant (HBsAg-1018) compared to a licensed hepatitis B vaccine 70 years of age. Vaccine. 2013 Nov 4;31(46):5300-5. doi: 10.1016/j.vaccine.2013.05.068. 28 b 2013 May 30. PMID: 23727002.

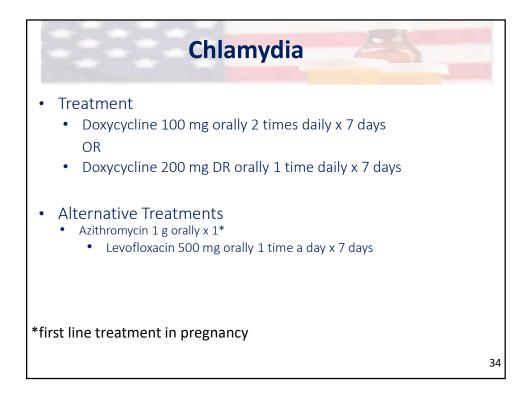


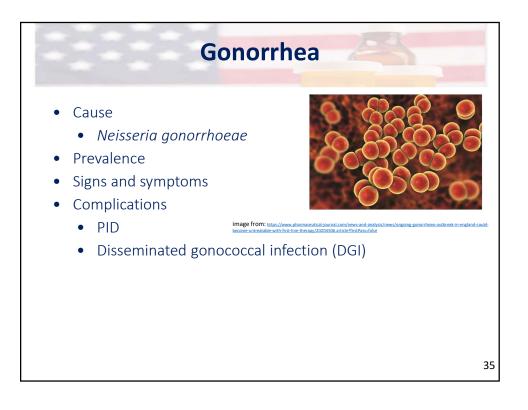


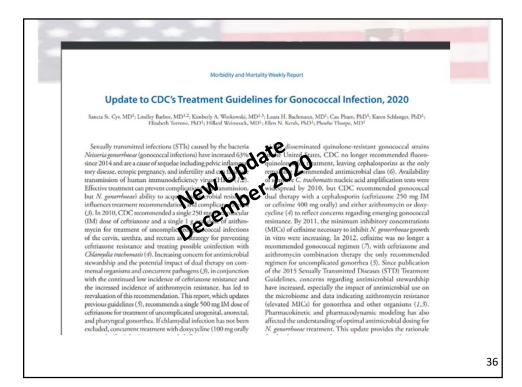


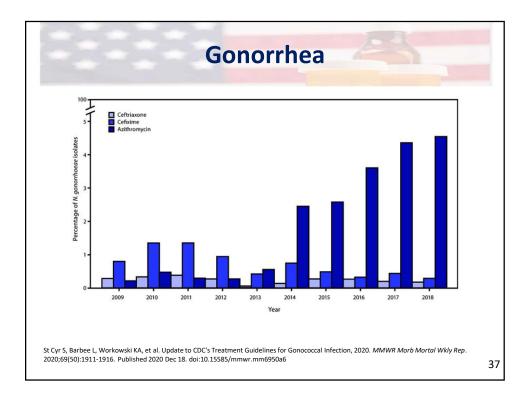




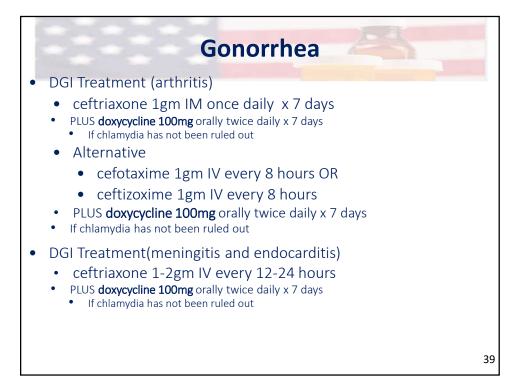




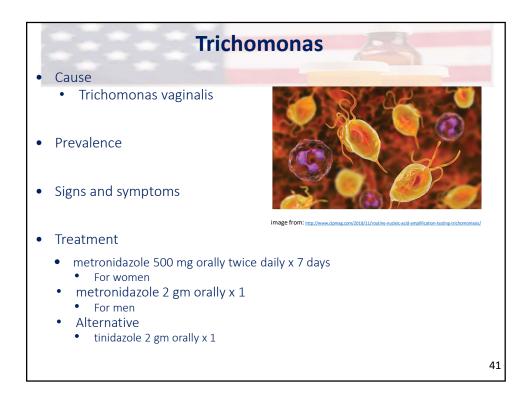


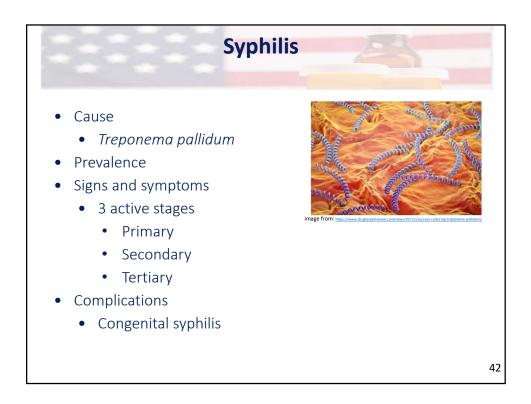


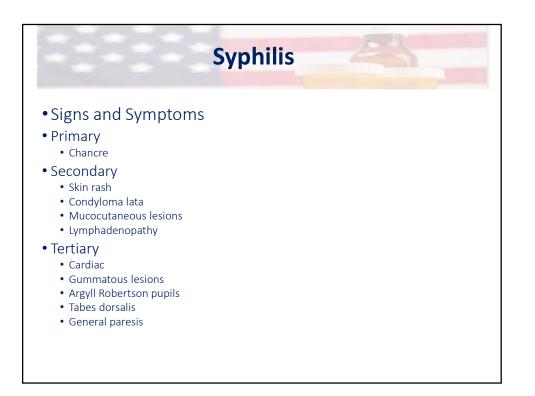
Gonorrhea	
Treatment	
 Ceftriaxone (weight-based dosing) 500mg if <150kg 1gm if ≥150 kg PLUS doxycycline 100mg orally twice daily x 7 days If chlamydia has not been ruled out 	
Alternative Treatments	
 cefixime 800 mg orally x 1 PLUS doxycycline 100mg orally twice daily x 7 days Gentamicin 240mg IM x 1 Azithromycin 2gm orally x 1 	
 Penicillin Allergy gemifloxacin 320mg x 1 PLUS azithromycin 2gm gentamicin 240 mg IM x1 PLUS azithromycin 2gm 	38



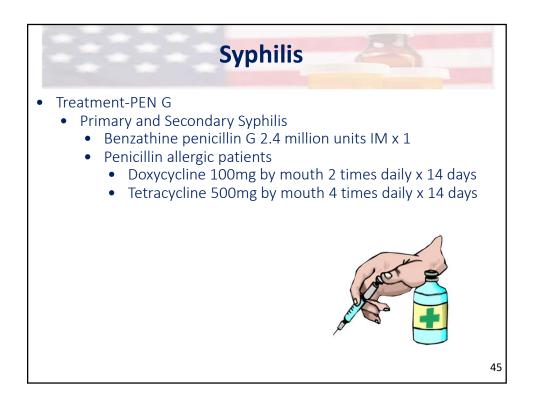
Chlamudia Treatment >> IS PARTNER BEING TREATED? <<	STD Medications Preventive Therapy
>>First Line	Condoms #12
Doxycycline 100mg bid x 7 days [PATIENT ONLY]	Condoms *NON LATEX #12 (R)
Doxycycline 100mg BID x 7 days [PATIENT & PARTNER]	*Restricted to pt (or partner) with latex allerg
>>If pregnancy or allergy to doxy	
Azithromycin 1 gram [PATIENT ONLY]	
Azithromycin 1 gram [PATIENT & PARTNER]	
	Lab Test GC/Chlam Throat
Gonorrhea Treatment >>IS PARTNER BEING TREATED ?<<	BPB Titer Only
>>Test of cure for pharvngeal gonorrhea 7 to 14 days after treatment	The trade only
cefTRIAXone 500mg IM with 1% Lidocaine [PATIENT ONLY]	
cefTRIAXone 500mg IM [FOR PT] & Cefixime 800mg PO [FOR PARTNER]	
>>If pt greater than or equal to 150kg	
cefTRIAXone 1gm IM with 1% Lidocaine [PATIENT ONLY]	
cefTRIAXone 1gm IM (FOR PT) & Cefixime 800mg PO (FOR PARTNER)	
>>If pt has cephalosporin allergy	
Gentamicin 240mg IM + Azithromycin 2gm PO x 1 [PATIENT ONLY]	
Gentamicin 240mg IM/Azith 2gm po (FOR PT) & Cefixime 800mg po once (FOR PARTNER)	
Gonorrhea/Chlamydia Treatment >> IS PARTNER BEING TREATED? <<	
cefTRIAXone 500mg IM + Doxycycline 100 mg PO BID x 7 days [PATIENT ONLY]	
cefTRIAX 500mg/Doxycycline [FOR PT] + Cefixime/Doxycycline [FOR PARTNER]	
>>If pt greater than or equal to 150kg	
cefTRIAXone 1gm IM + Doxycycline 100 mg PO BID x 7 days [PATIENT ONLY]	
cefTRIAX 1gm/Doxycycline [FOR PT] + Cefixime/Doxycycline [FOR PARTNER]	
>>If pt has cephalosporin allergy	
Gentamicin 240mg IM + Azithromycin 2gm PO x 1 [PATIENT ONLY]	
Gentamicin 240mg IM/Azith 2gm po [FOR PT] & Cefixime /Doxycycline [FOR PARTNER]	
>>If patient is pregnant	
cefTRIAXone 500mg IM + Azithromycin 1gm PO x 1 [PATIENT ONLY] cefTRIAXone 500mg/Azith IFOR PT1 & Cefixime/Doxycvcline (FOR PARTNER)	
cert Htta-xone buurng/Aztrn (FUH PT) & Lerixame/Doxycycline (FUH PARTNER)	
	Λ.
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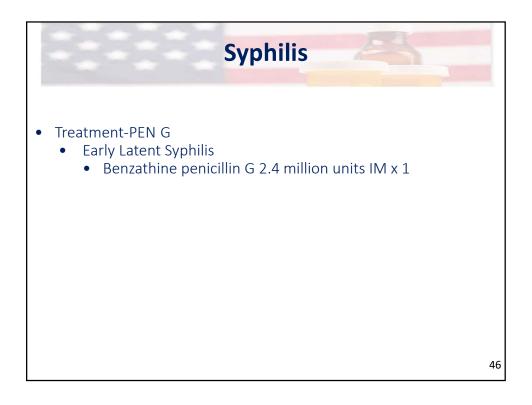


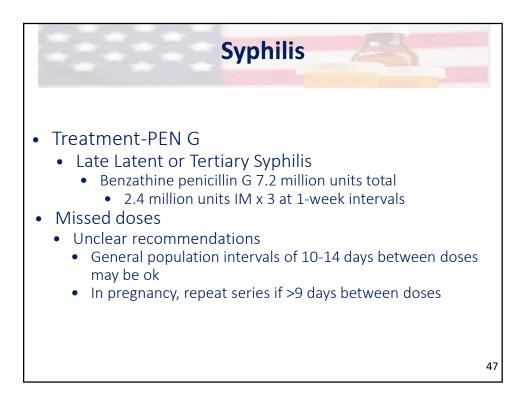


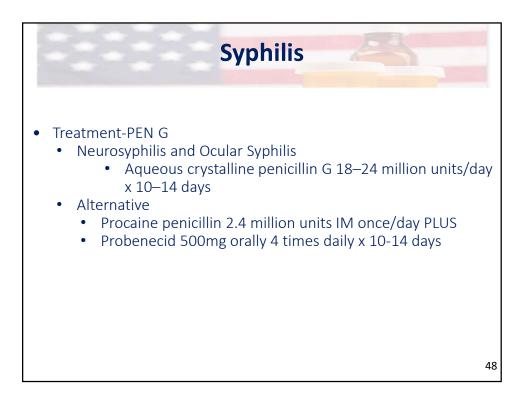


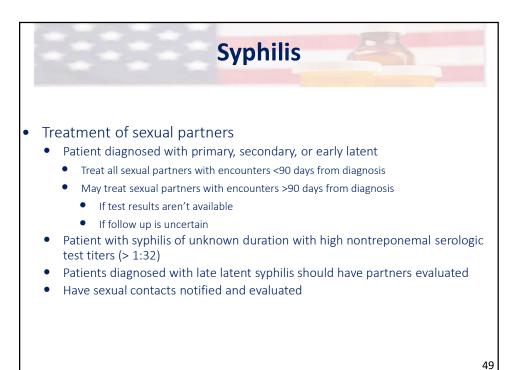
Syphilis	
 Diagnosis Definitive method Culture from lesion 	
 Presumptive Nontreponemal Treponemal 	
 Neurosyphilis CSF-VDRL Serological tests Neurological tests 	
	44



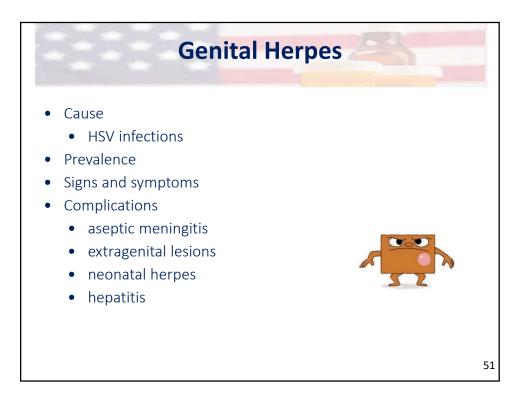


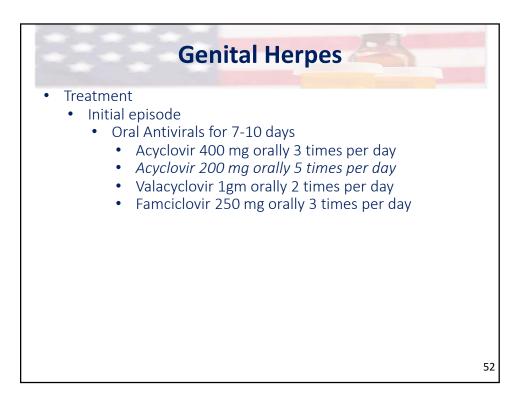




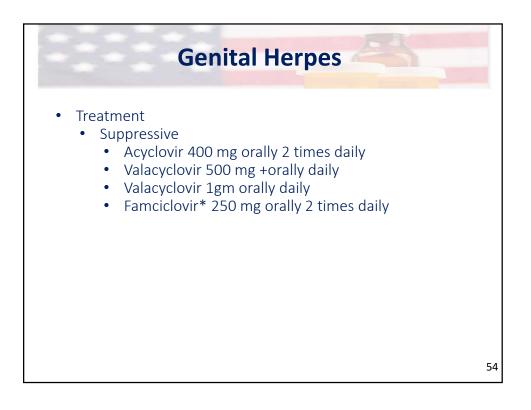


Stage	Treatment	Alternative
Primary Syphilis	Benzathine penicillin G 2.4 million units IM x 1	Doxycycline 100mg by mouth 2 times daily x 14 days Tetracycline 500mg by mouth 4 times daily x 14 days
Secondary Syphilis	Benzathine penicillin G 2.4 million units IM x 1	Doxycycline 100mg by mouth 2 times daily x 14 days Tetracycline 500mg by mouth 4 times daily x 14 days
Early Latent Syphilis	Benzathine penicillin G 2.4 million units IM x 1	
Late Latent Syphilis	Benzathine penicillin G 7.2 million units total 2.4 million units IM x 3 at 1-week intervals	Doxycycline 100mg by mouth 2 times daily x 28 days
Mauranunhilia	Anumente en estallina maniaillin C 10, 24 estillina units/deux 10, 14	Ceftriaxone 2gm IV or IM daily x 10-14 days
Neurosyphilis	Aqueous crystalline penicillin G 18–24 million units/day x 10–14 days	Procaine penicillin 2.4 million units IM once/day PLUS
ware free ware field of		Probenecid 500mg orally 4 times daily x 10-14 day
Ocular Syphilis	Aqueous crystalline penicillin G 18–24 million units/day x 10–14 days	Procaine penicillin 2.4 million units IM once/day PLUS
		Probenecid 500mg orally 4 times daily x 10-14 day

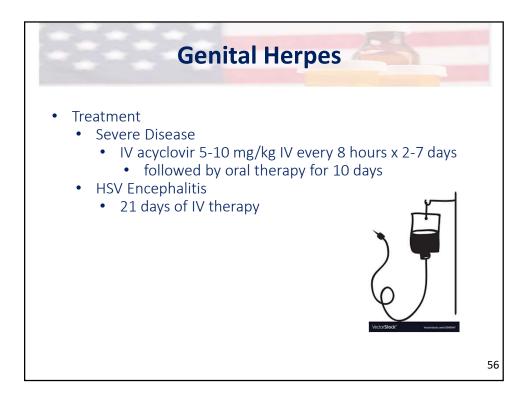


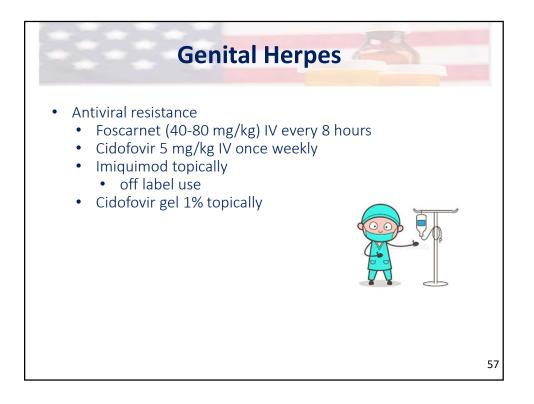


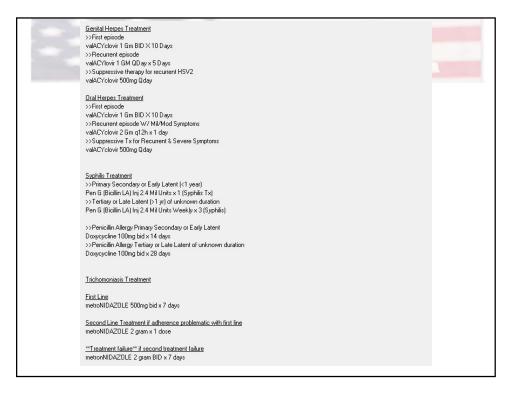


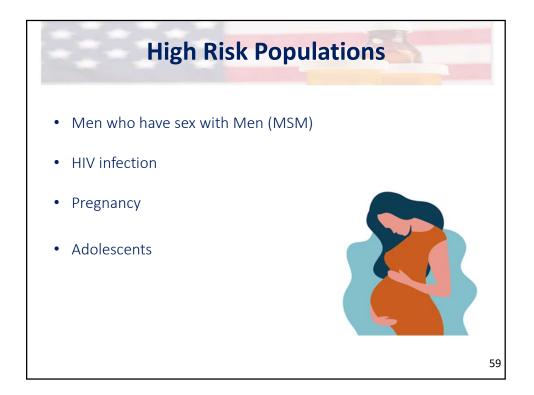


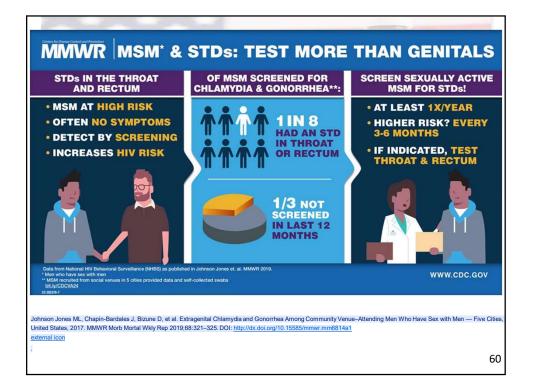
	Genital Herpes-Oral Therapies	
Agent	Dose	Duration
	Initial Treatment	
Acyclovir	400mg 3 times daily	7-10 days
Acyclovir	200mg 5 times daily	7-10 days
Valacyclovir	1gm 2 times daily	7-10 days
Famciclovir	250mg 3 times daily	7-10 days
	Episodic Treatment	
Acyclovir	400mg 3 times daily	5 days
Acyclovir	800mg 2 times daily	5 days
Acyclovir	800mg 3 times daily	2 days
Valacyclovir	500mg 2 times daily	3 days
Valacyclovir	1gm 1 time daily	5 days
Famciclovir	125mg 2 times daily	5 days
Famciclovir	1mg 2 times daily	1 day
Famciclovir	500mg 1 time then 250mg 2 times daily	3 days
	Suppressive Treatment	
Acyclovir	400mg 2 times daily	n/a
Valacyclovir	500mg 1 time daily	n/a
Valacyclovir	1gm 1 time daily	n/a
Famciclovir	250mg 2 times daily	n/a











Chlamydia	 At least annually for sexually active MSM at sites of contact (urethra, rectum) regardless of condom use² Every 3 to 6 months if at increased risk (i.e., MSM on PrEP, with HIV infection, or if they or
	their sex partners have multiple partners) ²
Gonorrhea	 At least annually for sexually active MSM at sites of contact (urethra, rectum, pharynx) regardless of condom use²
	Every 3 to 6 months if at increased risk ²
Syphilis	 At least annually for sexually active MSM² Every 3 to 6 months if at increased risk²
Herpes	 Type-specific serologic tests can be considered if infection status is unknown in MSM with previously undiagnosed genital tract infection^{2.6}
HIV	 At least annually for sexually active MSM if HIV status is unknown or negative and the patient or their sex partner(s) have had more than one sex partner since most recent HIN test^{2, 2, 12}
	 Consider the benefits of offering more frequent HIV screening (e.g., every 3–6 months) to MSM at increased risk for acquiring HIV infection.
HPV, Cervical	Digital anorectal rectal exam ²
Cancer, Anal Cancer	 Data is insufficient to recommend routine anal cancer screening with anal cytology²
Hepatitis B Screening	- All MSM should be tested for HBsAg. HBV core antibody, and HBV surface antibody $^{\rm 12}$
Hepatitis C Screening	 All adults over age 18 years should be screened for hepatitis C except in settings where the hepatitis C infection (HCV) positivity is < 0.1%¹³





