

STI Treatment Guidelines Update Part 1: Syphilis (and BV + Trich)

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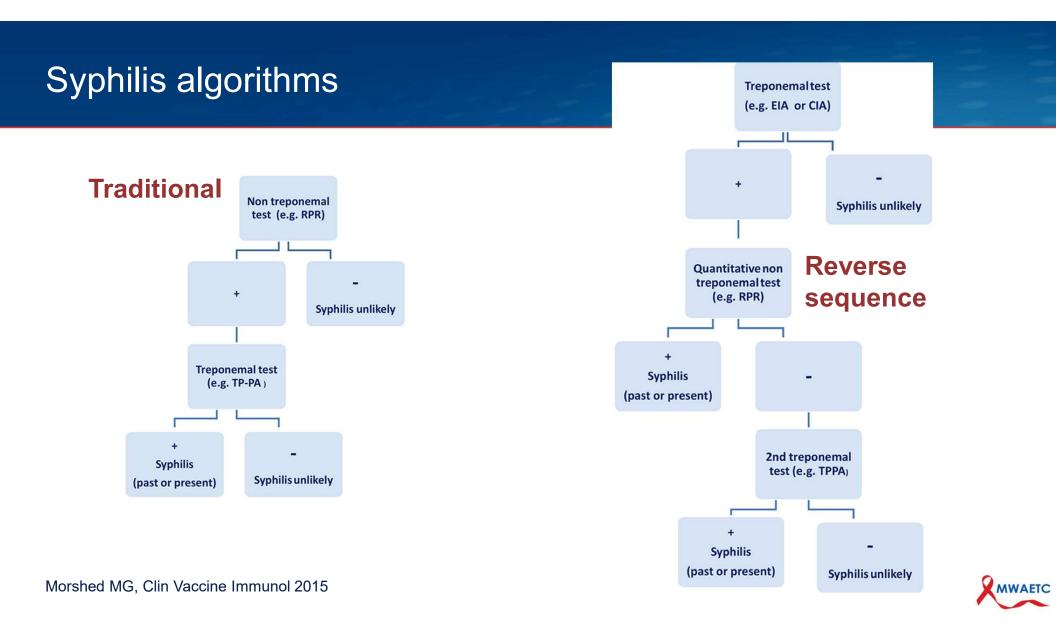


2021 CDC STI Treatment Guidelines

- Experts convened in Atlanta, GA from 11-14 June 2019
- Incorporation of new data/evidence
- More focus on challenges in syphilis management
 - Enhanced discussion about algorithms
 - Ocular syphilis
 - CSF follow-up
 - Expanded risk factors for testing in pregnant people
- Updates to BV and Trichomonas treatment







Syphilis algorithms

Traditional

- Always best to use same NTT from same lab, if possible
- RPR titers are often higher than VDRL
- Serofastness: inadequate serologic response vs serologic non-reversion

Reverse sequence

- If treated during primary stage,15-25% of TT may serorevert in 2-3 years¹
- Tiebreaker: use TP-PA or TT with different antigen target than initial used for screening
 - If positive: repeat NTT in 2-4 weeks with H&P to evaluate for early infection
- EIA/CIA optic density cutoffs may predict TP-PA positivity²





CSF evaluation in neuro-, ocular and otosyphilis

- Can occur at any stage of syphilis; commonly identified in early stage
- May or may not involve CNS
- If isolated ocular sx that are confirmed on exam + reactive serology = CSF is unnecessary before treatment
- CSF may be helpful if ocular sx + reactive serology and no abnormal exam



Panuveitis, retinal vasculitis, CN II-VI dysfunction, etc.



CSF evaluation in neuro-, ocular and otosyphilis

<u>Otosyphilis</u>

 If isolated auditory abnormalities + reactive serology, CSF is almost always normal and not of any additional diagnostic benefit

CSF analyses

- <u>VDRL</u> is very specific (~100%), not very sensitive (~25-30%)¹
 - Negative doesn't rule out but positive means highly likely to be neurosyphilis
- <u>FTA-ABS</u> is not very specific (55-60%), but highly sensitive (95-100%)^{2,3}
 - If negative, very unlikely to be neurosyphilis
- <u>TP-PA</u>: sensitivity and specificity are similar to FTA-ABS²



CSF evaluation in neuro-, ocular and otosyphilis

For those who are immunocompetent or who have HIV and on effective ART, normalization* of the serum RPR titer predicts normalization of CSF parameters after NS tx.

Repeat CSF exams not necessary in setting of serologic and clinical response to therapy.

* 4-fold decrease or reversion to nonreactive vs >8-fold decrease in serum RPR

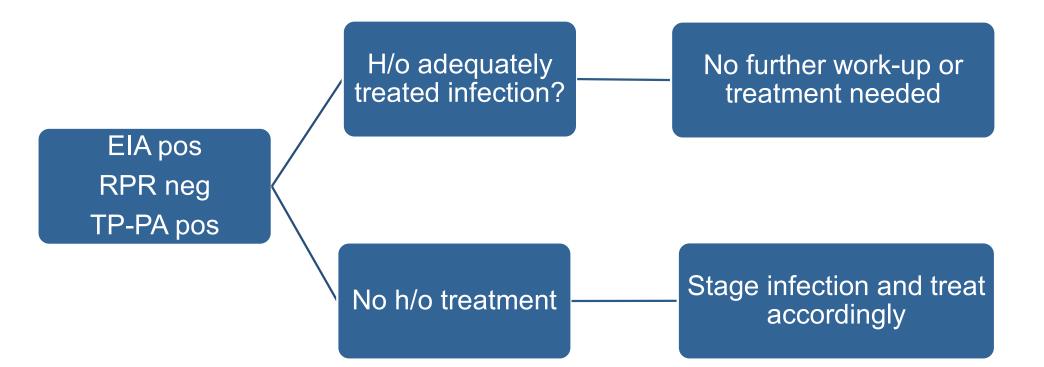


Syphilis in pregnancy

- Optimal timing between doses for LL/UD syphilis is 7 days; <u>up to 9 days may be</u> <u>permitted</u>
- Specified risk factors:
 - Sex with multiple partners
 - Transactional sex or sex + drug use
 - Late entry into prenatal care (first visit in 2nd trimester or later)
 - No prenatal care
 - Meth or heroin use
 - Incarceration of pregnant individual or their partner
 - Unstable housing or homelessness
- Evaluate for ongoing risk factors and treat sex partners

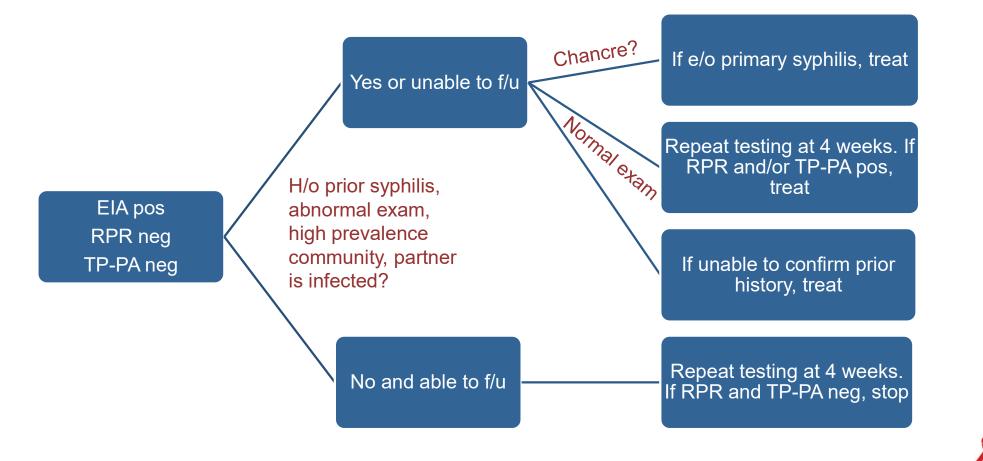


Syphilis in pregnancy: management tree





Syphilis in pregnancy: management tree



Miscellaneous syphilis pearls

- Primary syphilis can be multiple, atypical or painful lesions¹
- Longer tx for latent stage: *T. pallidum* thought to hide and divide slowly in sequestered sites
- No evidence that steroids improve outcomes for ocular or otosyphilis
- Ok to consider giving 1-3 weeks of BPG IM after finishing NS tx

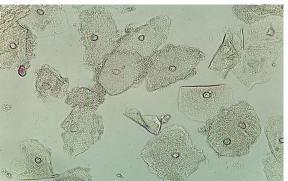
- No evidence that antipyretics prevent Jarisch-Herxheimer rxn
- If syphilis diagnosed and treated...
 - Before/at 24 weeks EGA: soonest to repeat titers is 8 weeks after tx
 - After 24 weeks EGA: repeat titers at delivery
- For serofast persons without HIV, retreatment does not meaningfully change serologies²



(1) Towns JM et al, STI 2016; (2) Zhang X et al, STD 2021

Bacterial vaginosis

- Removed warning about disulfiram-like reaction with nitroimidazoles
- Recommended therapy:
 - Metronidazole 500 mg PO bid x7d
 - Metro gel 0.75%, give 1 full intravaginal application (5 gm) daily x 5d
 - Clindamycin cream 2%, give 1 full intravaginal application (5 gm) qhs x7d
- Alternative therapies: Four prior regimens remain; *addition* of secnidazole 2 gm oral granules in a single dose (sprinkle on soft food before ingesting and drink full glass of water after to help with swallowing)





Trichomoniasis

- Change to tx for women
- No data for extended tx regimens in men
- Revised recommendations for persistent infection; contact CDC for resistance testing

2015			Group	Rec.	Alt.	Persistence
Group	Rec.	Alt.	All	MTZ 500 mg		• Re-exposed: Repeat
Women (HIV- negative) and men?	MTZ 2 gm PO x1 <u>or</u> tinidazole 2 gm PO x1	MTZ 500 mg PO bid x7d	women	PO bid x7d	Tinidazole 2 gm PO	same • Not re-exposed: MTZ or tinidazole 2 gm PO x7d
Women (HIV- positive)	MTZ 500 mg PO bid x7d		Men	MTZ 2 gm PO x1	x1	 Re-exposed: Repeat same Not re-exposed: MTZ 500 mg PO bid x7d

2021

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