Algorithm to process auto process the Syphilis Labs
Last Updated: 01/01/2023

Abbreviation definition
S.No = Scenario Number
FR = Field Record
Test Result :–
R = Reactive, P = Positive W = Weak
Disposition Codes :–
F = Negative
E = Previously treated for this infection
IR = Administrative Closure per Reactor Grid
H = Unable to Locate / D = Infected, Not Treated
I = Administrative Closure
J = Located, Refused Examination

A. Syphilis Labs inclusion criteria:
Lab is Syphilis. Task is not completed for the Lab. Lab is not assigned. Profile and Field Record are not created or assigned. The age must be greater than 365 days.

Profile Match Found
No
Yes

B. Create and Assign Profile

C. Update Address

Dataset based on matching profile id

1. Reactive non-treponemal test
Test Type is nontreponemal
Qualitative Result is not null or empty
Quantitative Result shouldn't be null for positives but it can be null for negative results

3. Compare

2. Non-reactive treponemal test within -14 to 14 days
Test Type is treponemal
Specimen within +-14 days in comparing data set 1
Quantitative Result can be null

Remove record from hold process if it is assigned manually

Comparing Syphilis labs from Reactive Non Treponemal and Non Treponemal test within -14 to 14 days of arrival on the basis profile or else name and dob

S.No	Qualitative Result Non Treponimal	Qualitative Result Treponemal	Outcome
1	R, P, or W	No Record	Continue to next step
2	R, P, or W	R, P, or W	Continue to next step
3	Not R, P, and W	R, P, or W	Dispo F
4	R, P, or W	Not R, P, and W	Dispo F
5	Not R, P, and W	Not R, P, and W	Will not be part of dataset
6	No Record	R or P or W	Hold the record -- Process -->
7	Quantitative Null	Quantitative Null	Hold the record -- Process -->

Hold The Record

No – Hold for 72 hours
Yes Hold for 24 hours
Female with Age <= 45 yrs
Yes

Check Holds
Trep Time Expired Non Trep still Missing
Yes

Prior reactive trep or non Trep
Yes
No

Current Test within <= 60 days
Yes
No

Updated Labs and Map to the FR

Non Treponemal Labs Continues to next Step

3.5 Trep - R, P, or W with New Profile
Yes
No

Disposition F

All Else

4
Prior syphilis non-treponemal test in database?
No
Yes

5
Previously unable to locate or treat patient (i.e. Patient with disposition H or D or I or J)
No Disposition

Map FR

6
Quantitative titer reported on current lab result?
- Include Qualitative record if exist on -+ 14 days-
No
Yes

7
Current titer > 1:32 AND previous titer > 1 year **OR**
Female < 50 years & titer > 1:8
and Previous titer > 6 Months
Yes

8
>= 4 fold titer increase compared with previous titer
– OR –
Current titer is >= 4 fold increase then lowest titer in Last 365 days Since the last infection – OR – no previous titer
Yes
No Disposition

9
Is there a seroconversion?
No
Yes

Negative Trep History with no positive
Disposition E
All Else
Yes
Disposition F

For Disposition E Only
A) If FR Exists within last 30 Days (open and close both) then assign the FR to current Labs.

For Disposition E or F
B) Map the FR without Labs (unassigned) exist in last 30 days then don't open and leave as is

For Disposition E if Last Field Rec is Disposition F - Convert to F

For Dispo E Create HIV Record for certain criteria – Refer Side Notes

For Disposition F
C) New FR Created and Closed
For Area 5 if ordering provider is public and its new FR then leave it open.

A) If Any FR created in last 30 days and is closed then Assign the FR to current Lab.

B) Map the FR without Labs (unassigned) exist in last 30 days – Open the FR if close otherwise leave it as is

Else

C) Create New Field Record
If the person is over 65 and Quantitative is 1:2 or less then Set the Disposition to IR and assign morbidity to N and close it.