



Timeboxing Office Hours

RCKMS Educational Session

June 8, 2023

(Updated April 2024)

Agenda

- Review timeboxing definitions
- In-tool Demonstration of timeboxing feature
- Timeline for the initial rollout of timeboxing
- Questions

What is Timeboxing?

What RCKMS Timeboxing is...

- Timeboxing is an effort to reduce the number of eICR messages that are determined to be reportable to PHAs based on Diagnosis or Problem list entries that may not be related to the current instance of disease.
- This is accomplished by including date-based logic in RCKMS rules to assess the interval between two key dates from the eICR message.

Timeboxing Definitions

Timeboxing = Evaluation of the duration between Date A and Date B**

- Date A = eICR Document Date
- Date B = Effective Time/Low of the Encounter Activity (for Diagnosis) or of the Problem Concern Act/Problem Observation (for Active Problems)**

Timebox Duration = the maximum acceptable interval between the two dates, as defined by the PHA

Timebox Calculation: $\text{Date B} \geq (\text{Date A} - \text{Timebox Duration})$

***If the value for Date B (the Effective Time/Low) is NULL, the timebox calculation cannot be performed. The criteria will be considered “met” as if the date was present and within the timebox window.*

XPaths

- eICR Document Date: ClinicalDocument/effectiveTime
- Encounter Activity/effectiveTime/low: ClinicalDocument/component/structuredBody/component/section/entry/encounter/effectiveTime/low
- Problem Concern Act/Problem Observation/effectiveTime/low:
ClinicalDocument/component/structuredBody/component/section/entry/act/entryRelationship/observation/effectiveTime/low

What RCKMS Timeboxing is not...

- *Timeboxing will not change the content of eICRs*; historical data in problem lists will remain in the eICRs if they are “unresolved.”
- Timeboxing will not eliminate “resolved” problems being present in the eICR. EHR vendors are being asked not to trigger off of, or load, “resolved” problems; however, the vendor must exclude the “resolved” problems for them to be removed entirely from the eICR.
- For the initial rollout, timeboxing will not be applied to any other types of criteria (laboratory results, medication, pregnancy, hospitalization) aside from the “Condition (as a diagnosis or active problem).”

How do you implement
Timeboxing in RCKMS?

The timebox duration is considered in the reportability determination, when the following is true:

- The condition is eligible for timeboxing

- Timeboxing is enabled and a duration is set

- The timeboxed criterion is active and has an S, N, O designation

- The logic set that includes the timeboxed criterion is implementable (i.e., none of the criteria included in the logic set are marked as “Not Yet Implementable”)

The timebox duration is NOT considered in the reportability determination, when the following is true:

- The latest version (which includes timeboxing) of the 5 conditions is NOT published to production

- Timeboxing is NOT enabled

- No timebox duration is set

- The Effective Time/Low of the Encounter Activity (for Diagnosis) or of the Problem Concern Act/Problem Observation (for Active Problems) is NULL

RCKMS Timeboxing – Initial Rollout

Initial conditions that will support timeboxing*:

- COVID-19
- Gonorrhea
- Hepatitis C Virus Infection
- Mpox
- Syphilis

****Timeboxing rules are ONLY available on the latest versions of each condition***

Jurisdiction Administrators may enable/disable timeboxing in the tool for each condition that supports timeboxing

Demonstration

eICR Test Cases for Timeboxing

Test Case Manager Limitations (Initial Release)

1. Only eICR test cases are supported for timeboxing at this time
(Document Date is not yet available as a criteria test case input)
2. In the label for the 'Actual Criteria Met' in the Test Case Manager, the timebox duration is not reflected like it is elsewhere in the tool:

COVID-19 (as a diagnosis or active problem) [~~Timeboxed to 30 Days~~]

Expected Criteria Met

Actual Criteria Met COVID-19 (as a diagnosis or active problem)

eICR Test Cases for Initial Timeboxing Release

COVID-19 Default eICR Timebox Test Cases

1. Diagnosis Date 1 year before eICR Document Date
2. Diagnosis Date 3 weeks before eICR Document Date
3. Diagnosis Date 7 days before eICR Document Date
4. Diagnosis Date 7 days before eICR Document Date plus Active Problem 1 year before Document Date

eICR Test Cases for Initial Timeboxing Release

Gonorrhea Default eICR Timebox Test Cases

1. Active Problem Date 1 year before eICR Document Date
2. Diagnosis Date 7 days before eICR Document Date

Hepatitis C Default eICR Timebox Test Cases

1. Active Problem Date 3 years before eICR Document Date
2. Diagnosis Date 6 months before eICR Document Date

eICR Test Cases for Initial Timeboxing Release

Mpox Default eICR Timebox Test Cases

1. Active Problem Date 1 year before eICR Document Date
2. Diagnosis Date 7 days before eICR Document Date
3. Suspected Diagnosis Date 7 days before eICR Document Date

Syphilis Default eICR Timebox Test Cases

1. Diagnosis Date 1 year before eICR Document Date
2. Diagnosis Date 3 weeks before eICR Document Date

Timebox Test Case Configuration

Edit Test Case

Details

Test Subject

Test Inputs

Reporting Specification

COVID-19 Timebox Test - 13.0 Release 20230203

Name

COVID-19 eICR Timebox Test Case - Diagnosis Date 1 year before eICR Document Date

Description

COVID-19 eICR Test Case for Testing Timeboxing
Document Date: 20230501
COVID Dx Date: 20220501

Condition Expected to be Reportable

Yes May be reportable No

Reporter Type

Provider/Facility Reporting

Timebox Test Case Configuration

Set 'Condition Expected to be Reportable' to Yes or No based on how the difference between Diagnosis/Active Problem Date and Document Date in the test eICR compares to your configured rules:

Reporting Specification:

Clinical
COVID-19 (as a diagnosis or active problem) [Timeboxed to 2 months] Sufficient

Test Case (Dx Date 1 year before eICR Document Date):

Condition Expected to be Reportable Yes May be reportable No

Test Case Results - Passed - Timebox Not Met

Test Results for [COVID-19 eICR Timebox Test Case - Diagnosis Date 1 year before eICR Document Date](#)

Summary	
Reporter Type	Provider/Facility Reporting
Test Result	Passed
Expected Reportable	No
Actual Reportable	No
Expected Reportable Condition	COVID-19 Timebox Test
Actual Reportable Condition	None
Expected Criteria Met	
Actual Criteria Met	

Timebox Test Case Configuration

Set 'Condition Expected to be Reportable' to Yes or No based on how the difference between Diagnosis/Active Problem Date and Document Date in the test eICR compares to your configured rules:

Reporting Specification:

Clinical
COVID-19 (as a diagnosis or active problem) [Timeboxed to 2 months] Sufficient

Test Case (Dx Date 7 days before eICR Document Date):

Condition Expected to be Reportable Yes May be reportable No

Test Case Results - Passed - Timebox Met

Test Results for [COVID-19 eICR Timebox Test Case - Diagnosis Date 7 days before eICR Document Date](#)

Summary	
Reporter Type	Provider/Facility Reporting
Test Result	Passed
Expected Reportable	Yes
Actual Reportable	Yes
Expected Reportable Condition	COVID-19 Timebox Test
Actual Reportable Condition	COVID-19 Timebox Test
Expected Criteria Met	
Actual Criteria Met	COVID-19 (as a diagnosis or active problem)

Test Case Results - Test Case Failed

Test Results for [COVID-19 eICR Timebox Test Case - Diagnosis Date 1 year before eICR Document Date](#)

Summary	
Reporter Type	Provider/Facility Reporting
Test Result	Failed
Expected Reportable	Yes
Actual Reportable	No
Expected Reportable Condition	COVID-19 Timebox Test
Actual Reportable Condition	None
Expected Criteria Met	
Actual Criteria Met	

Editing Test Case eICRs

Follow instructions in the Description section of the Test Case Details tab:

To change the Document Date and Diagnosis Date from the defaults:

1. Download the eICR file from the Test Inputs tab
2. Open the eICR file in an XML editor
3. Search for the text 'TIMEBOX DATE' (there are multiple instances)
4. Follow the instructions in the comments to change the date values
5. Save the updated eICR file
6. On the Test Inputs tab, click 'Choose File'
7. Select the updated eICR file
8. Click 'Apply' to save the changes
9. On the Details tab, set 'Condition Expected to be Reportable'
10. Click 'Apply' to save changes
11. Run the updated Test Case

Editing Test Case eICRs

Change Document Date:

```
<!--
*****
TIMEBOX DATE 1 - Document effectiveTime

The date the Dx/Active Problem Date will be compared to

Edit effectiveTime value below to desired "YYYYMMDD" value
*****
-->
<effectiveTime value="20230501"/>
```

Change Diagnosis Date:

```
<!--
*****
TIMEBOX DATE 2 - COVID-19 Encounter Diagnosis Date

Edit <effectiveTime> low value below to desired "YYYYMMDD" value
*****
-->
<effectiveTime>
  <low value="20220501"/>
</effectiveTime>
```


Timeboxing and Test Cases are complicated!

- If you need assistance modifying or running eICR Test Cases for timeboxing, reach out to your ASA or submit a ticket via www.rckms.org.

Timebox Information in the Reportability Response

```
<structuredBody>
  <component>
    <section>
      <entry typeCode="DRIV">
        <organizer classCode="CLUSTER" moodCode="EVN">
          <code code="RR11" codeSystem="2.16.840.1.114222.4.5.232" codeSystemName="PHIN Questions" displayName="Reportability Response Coded Information"/>
          <component>
            <observation classCode="OBS" moodCode="EVN">
              <templateId extension="2017-04-01" root="2.16.840.1.113883.10.20.15.2.3.12"/>
              <id root="2244a8e6-c959-4d0b-925f-f77c8487290b"/>
              <value code="840539006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Disease caused by severe acute respiratory syndrome coronavirus 2"/>
              <entryRelationship typeCode="COMP">
                <organizer classCode="CLUSTER" moodCode="EVN">
                  <code code="RRVS5" codeSystem="2.16.840.1.114222.4.5.274" codeSystemName="Location Relevance" displayName="Patient home address"/>
                  <component typeCode="COMP">
                    <observation classCode="OBS" moodCode="EVN">
                      <templateId extension="2017-04-01" root="2.16.840.1.113883.10.20.15.2.3.19"/>
                      <id root="bdedeale-e750-4557-918e-21420185eab3"/>
                      <code code="RR1" codeSystem="2.16.840.1.114222.4.5.232" codeSystemName="PHIN Questions" displayName="Determination of reportability"/>
                      <value code="RRVS1" codeSystem="2.16.840.1.114222.4.5.274" codeSystemName="PHIN VS (CDC Local Coding System)" displayName="Reportable" xsi:type="CD"/>
                      <entryRelationship typeCode="RSON">
                        <observation classCode="OBS" moodCode="EVN">
                          <templateId extension="2017-04-01" root="2.16.840.1.113883.10.20.15.2.3.27"/>
                          <id root="e25387c2-7a9e-484f-8baf-2cb279e3ff9b"/>
                          <code code="RR3" codeSystem="2.16.840.1.114222.4.5.232" codeSystemName="PHIN Questions" displayName="Determination of reportability rule"/>
                          <value xsi:type="ST">COVID-19 (as a diagnosis or active problem)</value>
                        </observation>
                      </entryRelationship>
                    </observation>
                  </component>
                </organizer>
              </entryRelationship>
            </observation>
          </component>
        </organizer>
      </entry>
    </section>
  </component>
</structuredBody>
```



COVID-19 (as a diagnosis or active problem) [Timeboxed to 30 Days]

Initial Rollout of Timeboxing

RCKMS Timeboxing – Initial Rollout

Initial conditions that will support timeboxing*:

- COVID-19
- Gonorrhea
- Hepatitis C Virus Infection
- Mpox
- Syphilis

****Timeboxing rules are ONLY available on the latest versions of each condition***

Jurisdiction Administrators may enable/disable timeboxing in the tool for each condition that supports timeboxing

RCKMS Timeboxing – Initial Rollout

Deployment Plans

1. Timeboxing software modifications were released as part of the May 17, 2023 deployment.
2. Reporting Specifications for the initial timebox-supported conditions will be made available in the RCKMS Authoring Interface via an off-schedule Content Release on **June 19, 2023**.
3. RCKMS Administrators will import the initial set of updated Reporting Specifications on behalf of PHAs and ongoing authoring support will be available.
4. PHAs will decide whether/when to publish new timebox-enabled Reporting Specifications for their jurisdictions.

RCKMS Timeboxing – Re-authoring

RCKMS Administrators will complete the following re-authoring on behalf of the PHAs:

- Import the new timeboxed version of the RS
- Re-author any updates to the details tab to match the prior version
- Re-create any user added logic sets to match the prior version
- Update the reporting timeframes to match the prior version
- Update the S, N, O designations to match the prior version
- Re-author internal and external references to match the prior version

The RCKMS Admins will NOT publish the new versions.

RCKMS Timeboxing – Re-authoring

RCKMS Administrators will import & re-author on behalf of the jurisdictions *if the jurisdiction has the following version of the condition or later published to production*

- COVID-19 – version 12.0
- Gonorrhoea – version 4.0
- Hepatitis C Virus Infection – version 4.0
- Mpox (Monkey pox) – version 4.0
- Syphilis – version 2.1

**Timeboxing rules are ONLY available on the latest versions of each condition*

If you need assistance adopting the latest version of any of these conditions, please reach out to your ASA or submit a ticket via www.rckms.org.

RCKMS Timeboxing- Initial Rollout Timeline

- **June 15th – 19th:** RCKMS Administrators will complete the import & re-authoring on behalf of the PHAs with the minimum required versions from 8am ET on 6/15 to 8am ET on 6/19. *Jurisdiction users are asked to refrain from making any changes to their rules in the authoring interface during this time.*
- **June 19th :** New versions of Reporting Specifications for the initial timebox-supported conditions become available in the RCKMS Authoring Interface
 - eICR test cases will be included to test timeboxed criteria (criteria test cases for testing the timebox function is not supported with the initial release)
 - Supporting materials available at www.rckms.org
- **Summer 2023:** Ongoing analysis of utility and functionality of initial rollout
- **Fall/ Winter 2023:**
 - Planning the extension of timeboxing for new and existing conditions going forward
 - Analysis of application of timeboxing to other types of RCKMS criteria (e.g., hospitalization, labs, etc.)



Questions?

Next Steps...

- If you need assistance adopting the latest version of any of the conditions that will be part of the Timebox release, please reach out to your ASA or submit a ticket via www.rckms.org.

How does Timeboxing work?

Use Case Review

Background for Use Cases

PHA has rules published for COVID-19 and Syphilis

1. Timeboxing has been enabled and the durations have been set for both conditions
 - COVID timebox duration = 7 days
 - Syphilis timebox duration = 14 days
2. The timeboxed “Condition (as a diagnosis or active problem)” criteria for each condition is marked as “Sufficient”
3. All of the criteria in the logic sets that include the timeboxed criteria are implementable

Published COVID-19 Rules

Details Criteria / Logic Sets Specifications Internal References External References

Reporting Specifications

Show Inactive Criteria

Enable Timebox - 7 days

1

	Lab Reporting (Lab Reporting)	Provider/Facility Reporting (DX)
Reporting Time Frame	0 immediate	0 immediate
Clinical		
COVID-19 (as a diagnosis or active problem) [Timeboxed to 7 days]		Sufficient
Post-acute or Chronic COVID-19 syndrome (as a diagnosis or active problem)		
Laboratory		
Detection of SARS-CoV-2 antigen in a clinical or post-mortem specimen by any method	Sufficient	
Detection of SARS-CoV-2 genomic sequences by any method	Sufficient	
Detection of SARS-CoV-2 nucleic acid in a clinical or post-mortem specimen by any method	Sufficient	
Detection of SARS-CoV-2 organism or substance in a clinical specimen		
Encounter		
Hospitalized during encounter		

2

3

Published Syphilis Rules

Details Criteria / Logic Sets Specifications Internal References External References

Reporting Specifications

Show Inactive Criteria

Enable Timebox - 14 days

1

	Lab Reporting (Lab Reporting)	Provider/Facility Reporting (DX)
Reporting Time Frame	0	0
Clinical		
Syphilis (as a diagnosis or active problem) [Timeboxed to 14 days]		Sufficient
Laboratory		
Detection of Treponema pallidum nucleic acid in a clinical specimen by any method	Sufficient	
Detection of treponemal or non-treponemal antibody in a clinical specimen by any method (e.g., Rapid Plasma Reagin (RPR), Venereal Disease Research Laboratory (VDRL), Fluorescent Treponemal Antibody Absorbed (FTA-ABS), T. pallidum Particle Agglutination (TP-PA), Enzyme Immunoassay (EIA), Chemiluminescence Immunoassay (CIA), or equivalent serologic methods)	Sufficient	
Microscopic observation of Treponema pallidum in a clinical specimen (e.g., darkfield microscopy, immunohistochemistry, and special stains)	Sufficient	
Negative results for tests for detection of treponemal or non-treponemal antibody in a clinical specimen by any method (i.e., RPR, VDRL, FTA-ABS, TP-PA, EIA, CIA, or equivalent serologic methods)		

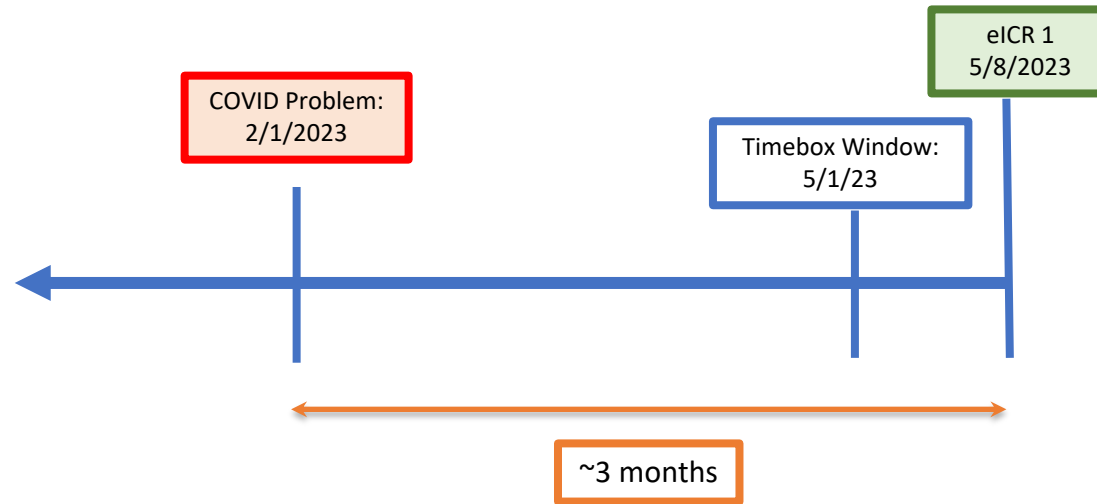
2

3

Use Case #1: Previous Problem list entry for COVID

Desired Reportability Determination:
No Rule Met for COVID

Use Case #1 – Previous Problem List Entry for COVID



Details Criteria / Logic Sets Specifications Internal References External References

Reporting Specifications Show Inactive Criteria Enable Timebox - 7 days

	Lab Reporting (Lab Reporting)	Provider/Facility Reporting (DX)
Reporting Time Frame	0 immediate	0 immediate
Clinical		
COVID-19 (as a diagnosis or active problem) [Timeboxed to 7 days]		Sufficient
Post-acute or Chronic COVID-19 syndrome (as a diagnosis or active problem)		
Laboratory		
Detection of SARS-CoV-2 antigen in a clinical or post-mortem specimen by any method	Sufficient	
Detection of SARS-CoV-2 genomic sequences by any method	Sufficient	
Detection of SARS-CoV-2 nucleic acid in a clinical or post-mortem specimen by any method	Sufficient	
Detection of SARS-CoV-2 organism or substance in a clinical specimen		
Encounter		
Hospitalized during encounter		

Timebox Calculation:

$$2/1/23 \geq (5/8/23 - 7 \text{ days})$$

$$2/1/23 \not\geq 5/1/23 \quad \text{Not Met}$$

The COVID Problem list entry is "outside" of the timebox window

Reportability Determination:

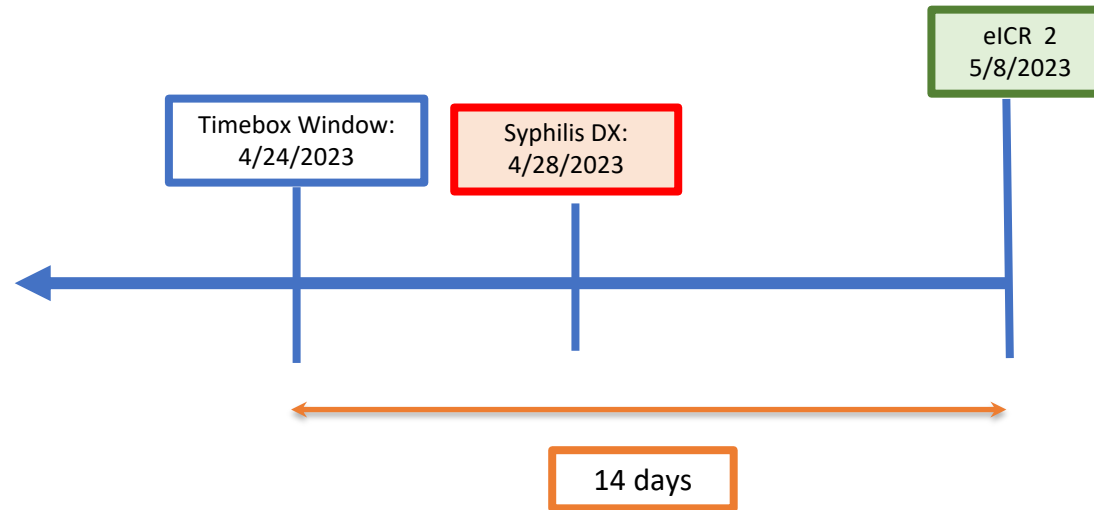
- No rule met for COVID
- eICR is NOT reportable to PHA



Use Case #2: Current diagnosis of Syphilis

Desired Reportability Determination:
Rule Met for Syphilis

Use Case #2 – Current Syphilis Diagnosis



Details Criteria / Logic Sets Specifications Internal References External References

Reporting Specifications Show Inactive Criteria Enable Timebox - 14 days

	Lab Reporting (Lab Reporting)	Provider/Facility Reporting (DX)
Reporting Time Frame	0	0
Clinical		
Syphilis (as a diagnosis or active problem) [Timeboxed to 14 days]		Sufficient
Laboratory		
Detection of Treponema pallidum nucleic acid in a clinical specimen by any method	Sufficient	
Detection of treponemal or non-treponemal antibody in a clinical specimen by any method (e.g., Rapid Plasma Reagin (RPR), Venereal Disease Research Laboratory (VDRL), Fluorescent Treponemal Antibody Absorbed (FTA-ABS), T. pallidum Particle Agglutination (TP-PA), Enzyme Immunoassay (EIA), Chemiluminescence Immunoassay (CIA), or equivalent serologic methods)	Sufficient	
Microscopic observation of Treponema pallidum in a clinical specimen (e.g., darkfield microscopy, immunohistochemistry, and special stains)	Sufficient	
Negative results for tests for detection of treponemal or non-treponemal antibody in a clinical specimen by any method (i.e., RPR, VDRL, FTA-ABS, TP-PA, EIA, CIA, or equivalent serologic methods)		

Timebox Calculation:
 $4/28/23 \geq (5/8/23 - 14 \text{ days})$
 $4/28/23 \geq 4/24/23$ **Rule Met**

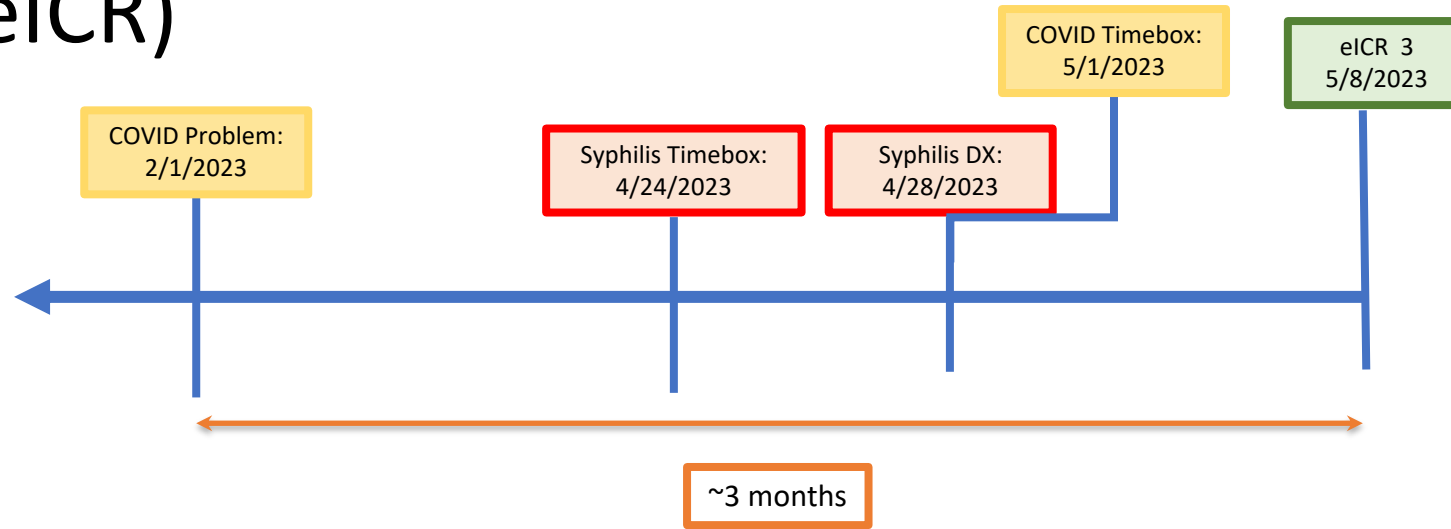
- Reportability Determination:
- Rule met for “Syphilis (as a diagnosis or active problem)”
 - eICR is reportable to PHA



Use Case #3: Previous problem list entry for COVID and current diagnosis of Syphilis in the same eICR

Desired Reportability Determination:
No Rule Met for COVID
Rule Met for Syphilis

Use Case #3 – Syphilis DX & Previous COVID Problem (same eICR)



COVID Timebox Calculation:
 $2/1/23 \geq (5/8/23 - 7 \text{ days})$
 $2/1/23 \not\geq 5/1/23$ **Not Met**

Syphilis Timebox Calculation:
 $4/28/23 \geq (5/8/23 - 14 \text{ days})$
 $4/28/23 \geq 4/24/23$ **Rule Met**

- COVID Reportability Determination:
- No rule met for COVID
 - eICR is NOT reportable to PHA



- Syphilis Reportability Determination:
- Rule met for “Syphilis (as a diagnosis or active problem)”
 - eICR is reportable to PHA



Use Case #4: Previous diagnosis of Syphilis plus treatment information in the same eICR

Desired Reportability Determination:
Rule Met for Syphilis

NEW published Syphilis Rules

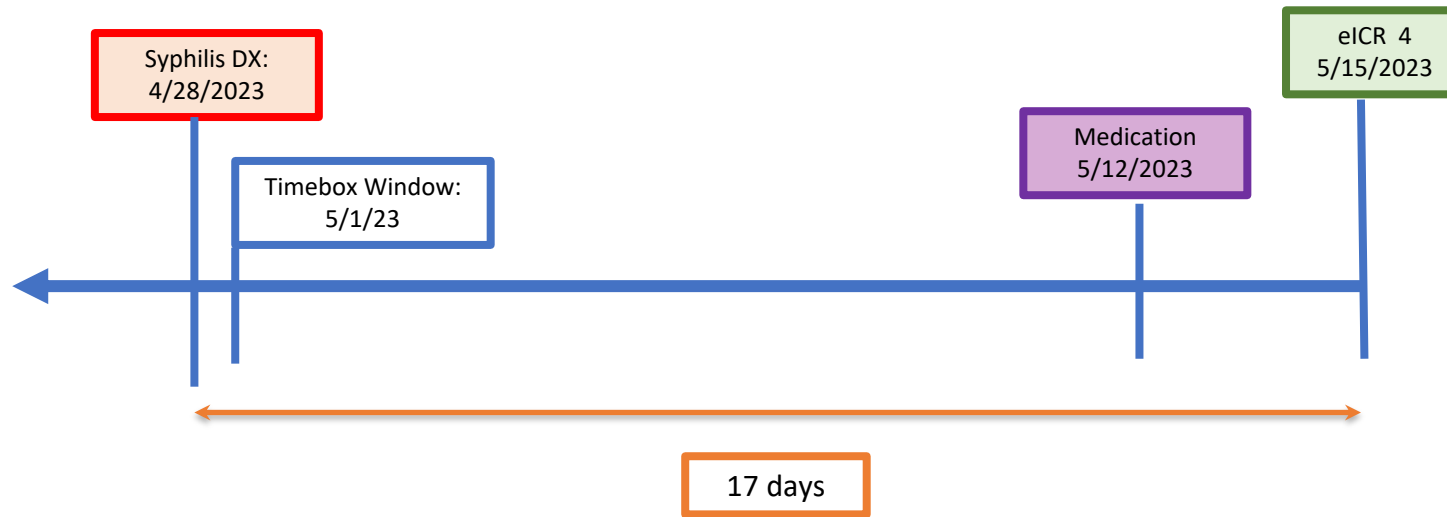
Details Criteria / Logic Sets Specifications Internal References External References

Reporting Specifications Show Inactive Criteria

Enable Timebox - 14 days

	Lab Reporting (Lab Reporting)	Provider/Facility Reporting (DX)	Provider/Facility Reporting (LAB)	Provider/Facility Reporting (MED)
Reporting Time Frame	0	0	0	0
Clinical				
Syphilis (as a diagnosis or active problem) [Timeboxed to 14 days]		Sufficient		
Laboratory				
Detection of Treponema pallidum nucleic acid in a clinical specimen by any method	Sufficient		Sufficient	
Microscopic observation of Treponema pallidum in a clinical specimen (e.g., darkfield microscopy, immunohistochemistry, and special stains)	Sufficient		Sufficient	
Negative results for tests for detection of treponemal or non-treponemal antibody in a clinical specimen by any method (i.e., RPR, VDRL, FTA-ABS, TP-PA, EIA, CIA, or equivalent serologic methods)				
Medication				
Aqueous crystalline penicillin G administered parenterally				Sufficient

Use Case #4 – Syphilis DX & Medication (same eICR)



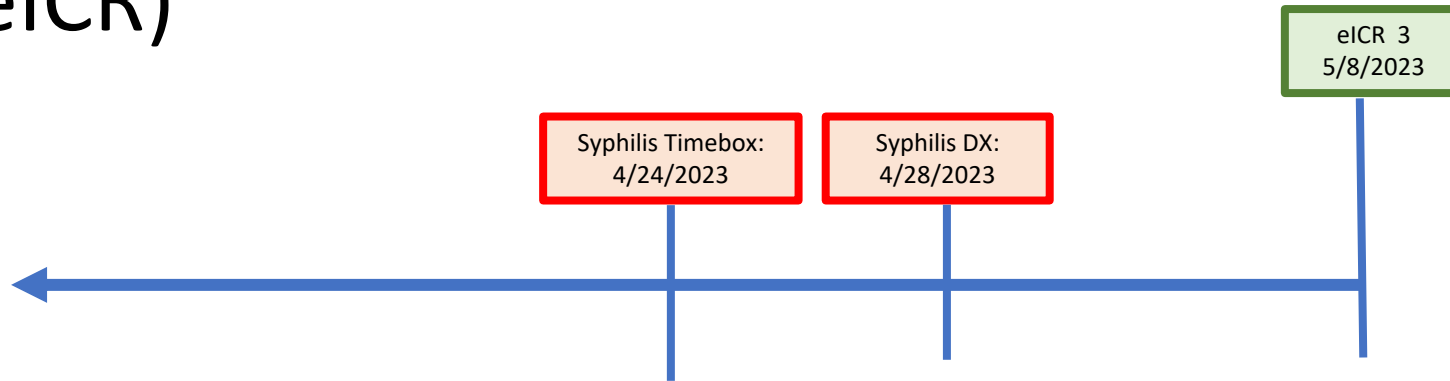
Timebox Calculation:

$4/28/23 \geq (5/15/23 - 14 \text{ days})$

$4/28/23 \not\geq 5/1/23$ **Not Met**

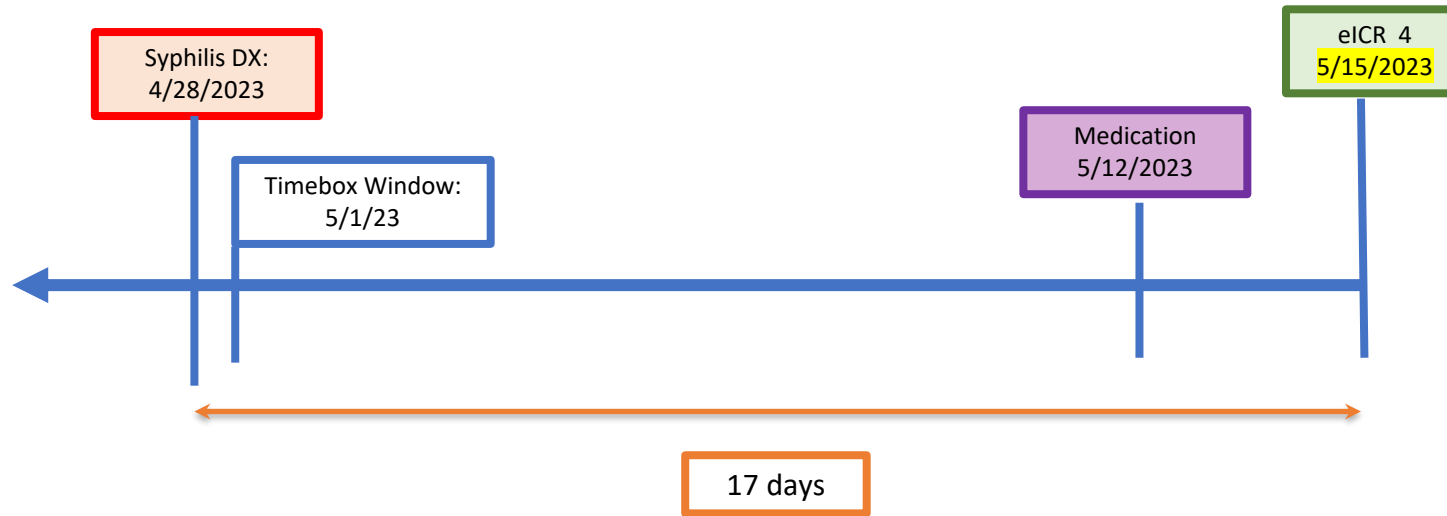
The Syphilis diagnosis is now “outside” of the timebox window.

Use Case #3 – Syphilis DX & Previous COVID Problem (same eICR)



Syphilis Timebox Calculation:
 $4/28/23 \geq (5/8/23 - 14 \text{ days})$
 $4/28/23 \geq 4/24/23$ **Rule Met**

Use Case #4 – Syphilis DX & Medication (same eICR)



Timebox Calculation:

$4/28/23 \geq (5/15/23 - 14 \text{ days})$

$4/28/23 \not\geq 5/1/23$ **Not Met**

However, the medication criterion is "Sufficient" alone

The Syphilis diagnosis is now "outside" of the timebox window.

Reportability Determination:

- Rule met for "Aqueous crystalline penicillin G administered parenterally"
- eICR is reportable to PHA



Use Case #5: Combining a timeboxed criterion with other criteria

Desired Reportability Determination:
Rule Met for Syphilis

Combined Logic Set for Syphilis

Details Criteria / Logic Sets Specifications Internal References External References

Reporting Specifications Show Inactive Criteria

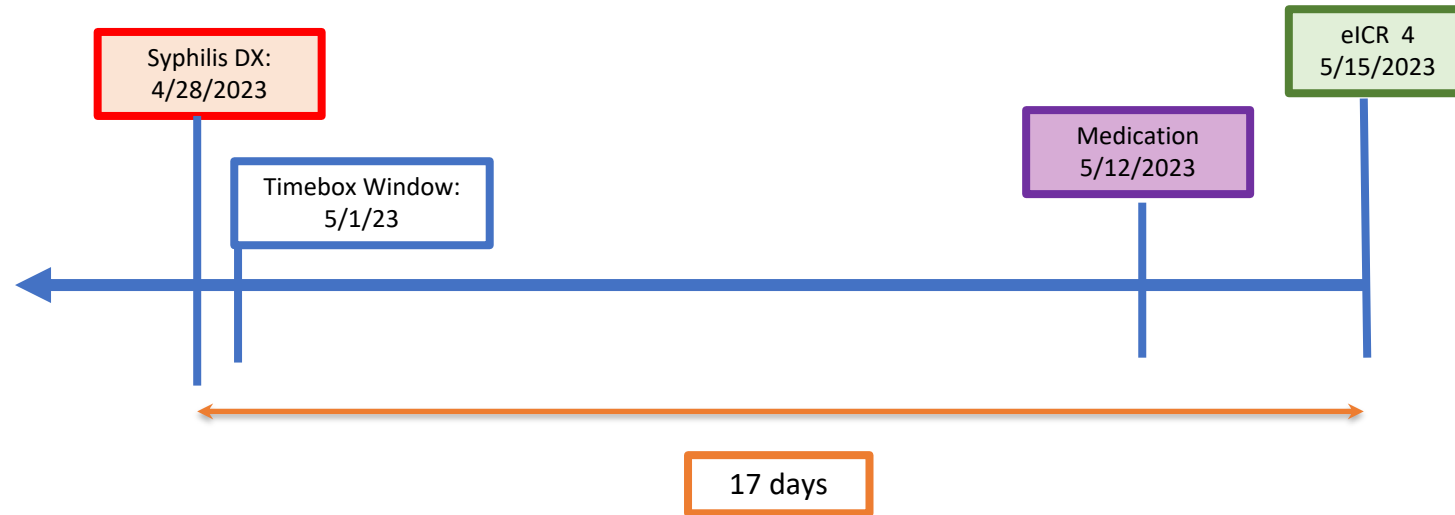
Enable Timebox - 14 days

	Lab Reporting (Lab Reporting)	Provider/Facility Reporting (CLIN+MED)	Provider/Facility Reporting (DX)
Reporting Time Frame	0	0	0
Clinical			
Syphilis (as a diagnosis or active problem) [Timeboxed to 14 days]		Necessary	Sufficient
Laboratory			
Detection of Treponema pallidum nucleic acid in a clinical specimen by any method	Sufficient		
Microscopic observation of Treponema pallidum in a clinical specimen (e.g., darkfield microscopy, immunohistochemistry, and special stains)	Sufficient		
Negative results for tests for detection of treponemal or non-treponemal antibody in a clinical specimen by any method (i.e., RPR, VDRL, FTA-ABS, TP-PA, EIA, CIA, or equivalent serologic methods)			
Medication			
Aqueous crystalline penicillin G administered parenterally		Necessary	

RISK: both “Necessary” elements have to be present in the SAME eICR to meet the rule



Use Case #5 – Syphilis DX & Medication are both “Necessary” (same eICR)



Timebox Calculation:

$4/28/23 \geq (5/15/23 - 14 \text{ days})$

$4/28/23 \not\geq 5/1/23$ **Not Met**

The Syphilis diagnosis is “outside” of the timebox window.

To meet the CLIN+MED logic set, both rules

- “Syphilis (as a diagnosis or active problem)” criterion AND
- “Aqueous crystalline penicillin G administered parenterally” criterion

MUST be met in the SAME eICR

Reportability Determination: No Rule Met





How do we resolve it?

1. Author the timeboxed criterion as “Sufficient” without additional criteria being “Necessary” or “Optional” within the same Logic Set

OR

2. Widen the timebox to allow all “Necessary” or “Optional” elements to be included

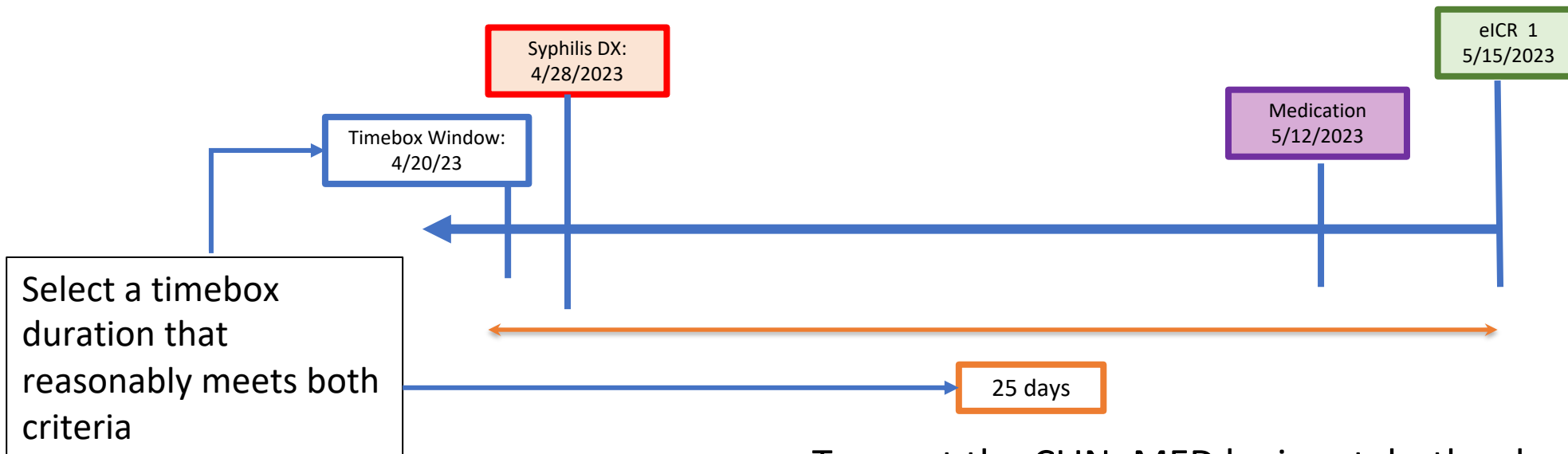
1. Adjust published Syphilis Rules

Details Criteria / Logic Sets Specifications Internal References External References

Reporting Specifications Show Inactive Criteria Enable Timebox - 14 days

	Lab Reporting (Lab Reporting)	Provider/Facility Reporting (DX)	Provider/Facility Reporting (LAB)	Provider/Facility Reporting (MED)
Reporting Time Frame	0	0	0	0
Clinical				
Syphilis (as a diagnosis or active problem) [Timeboxed to 14 days]		Sufficient		
Laboratory				
Detection of Treponema pallidum nucleic acid in a clinical specimen by any method	Sufficient		Sufficient	
Microscopic observation of Treponema pallidum in a clinical specimen (e.g., darkfield microscopy, immunohistochemistry, and special stains)	Sufficient		Sufficient	
Negative results for tests for detection of treponemal or non-treponemal antibody in a clinical specimen by any method (i.e., RPR, VDRL, FTA-ABS, TP-PA, EIA, CIA, or equivalent serologic methods)				
Medication				
Aqueous crystalline penicillin G administered parenterally				Sufficient

2. Widen the timebox



Timebox Calculation:

$4/28/23 \geq (5/15/23 - 25 \text{ days})$

$4/28/23 \geq 4/20/23$ **Rule Met**

The Syphilis diagnosis is now within the timebox window.

To meet the CLIN+MED logic set, both rules

- “Syphilis (as a diagnosis or active problem)” criterion AND
- “Aqueous crystalline penicillin G administered parenterally” criterion

MUST be met in the SAME eICR

Reportability Determination: Rule Met for CLIN+MED logic set for Syphilis

