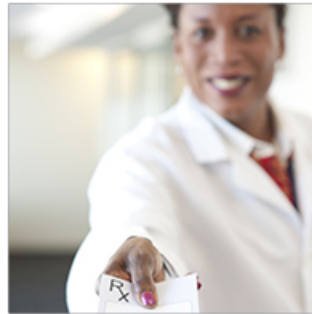


# Cumulative Medication Duration

Representing CMD in the Quality Data Model and HQMF

May 21, 2014



# Recent History

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- **CMD has not been easy to resolve**
  - In User Group Meetings: Feb 19, Mar 5, Mar 19, Apr 16
  - In focus group meetings and email threads
  
- **The latest solution discussed in focus group was *promising***
  - But it cannot be expressed in HQMF R2.1
  - Requires changes to other specs not feasible in our timeline
  
- **We need to collectively make a choice**
  - Approve an interim solution that has limitations, or
  - Fallback to guidance and supplemental materials

# Proposed Solution

Sum > 180 day(s) of: "Medication, Active: Warfarin (cumulative medication duration)" during "Measurement Period"

Sum > 120 day(s) of: "Medication, Active: Warfarin (cumulative medication duration)" < 6 month(s) starts before start of "Measurement Period"

## ■ Approach:

- Cumulative Medication Duration remains an attribute
- Sum defined to consider overlaps when operating on CMD

## ■ Benefits

- Fixes QDM syntax error without reducing the original functionality
- Expressible *today* in QDM and HQMF R2

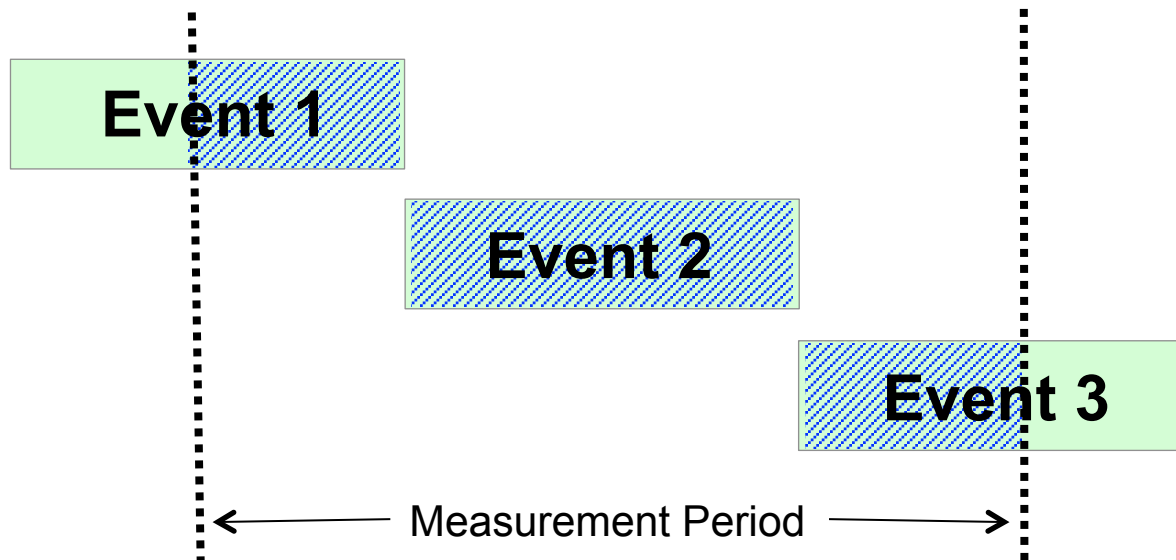
# Proposed Solution's Limitations

Sum > 180 day(s) of: "Medication, Active: Warfarin (cumulative medication duration)" during "Measurement Period"

- **No “prorating” medication events**
  - Every event captured by your timing logic contributes its *full* CMD calculation to the aggregate CMD result
  - No notion of a “calculation period”
- **Patient-Reported Medications are not included in the CMD**
  - This is a more general problem with *any* CMD solution
- **Restricted to a single QDM Element w/ a single value set**
  - i.e., cannot calculate CMD on a union of different medications

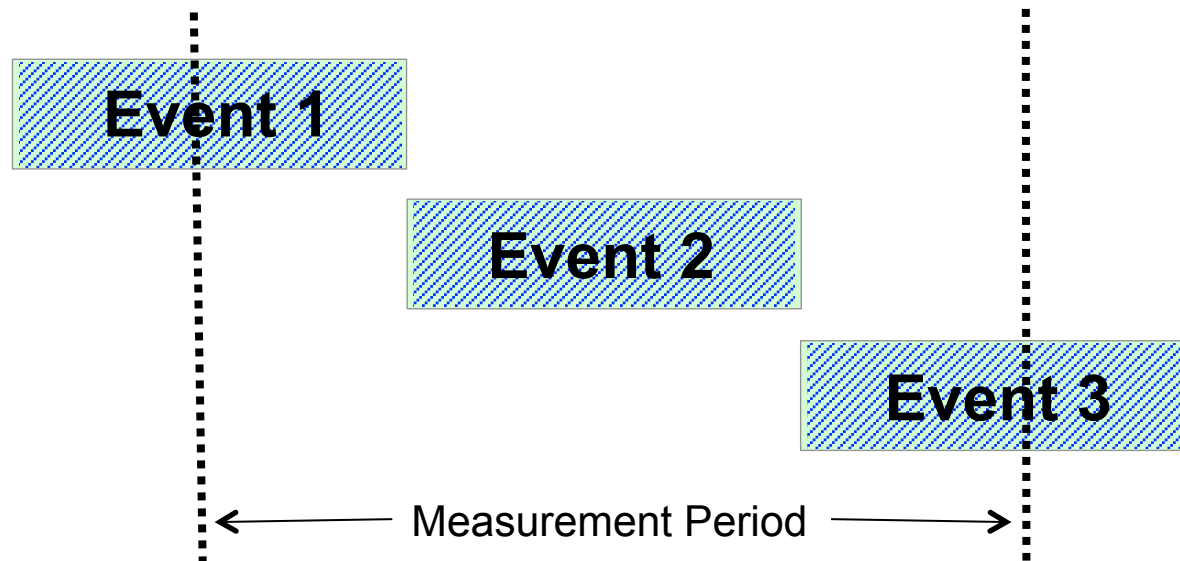
# Prorating Limitation: What We Can't Do with the Proposed Solution

Sum > 180 day(s) of: "Medication, Active: Warfarin (cumulative medication duration)" overlaps "Measurement Period" calculated during "Measurement Period"



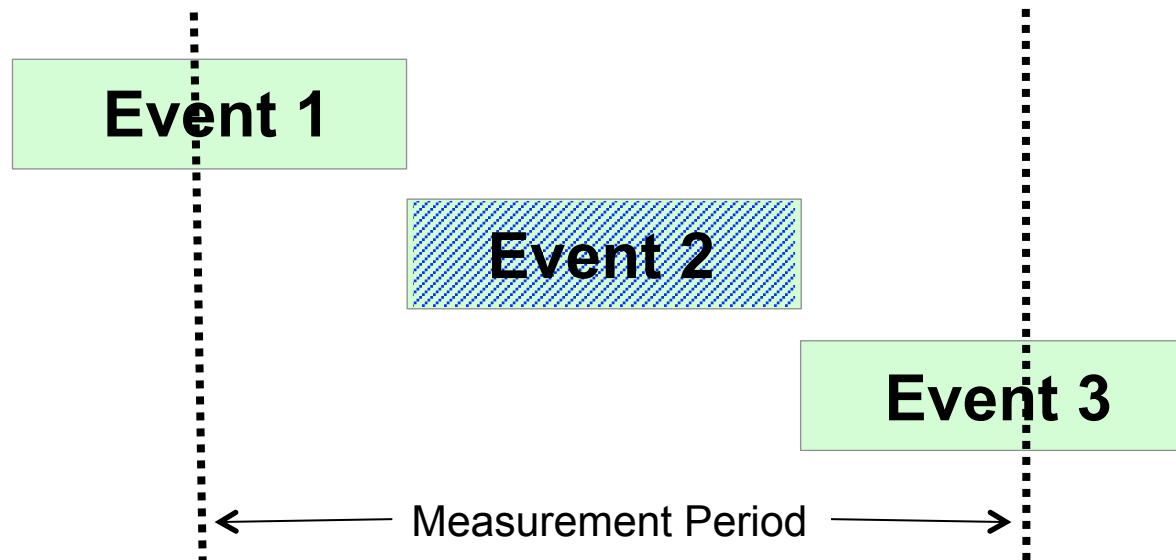
# Prorating Limitation: Option 1

Sum > 180 day(s) of: "Medication, Active: Warfarin (cumulative medication duration)" overlaps "Measurement Period"



# Prorating Limitation: Option 2

Sum > 180 day(s) of: "Medication, Active: Warfarin (cumulative medication duration)"  
during "Measurement Period"



# Prorating Limitation: Option 3

Sum > 180 day(s) of: "Medication, Active: Warfarin (cumulative medication duration)" starts during "Measurement Period"

