

**The Follow-Up
I2b2**

<https://i2b2.idr.ufhealth.org>

UF Clinical and Translational
Science Institute
Integrated Data Repository Research Services
UNIVERSITY of FLORIDA

Franzler Pierre, MS
Data Analyst III
Integrated Data Repository (IDR)

1

Agenda

- ▶ Example of sequence of events in i2b2
- ▶ Review of common faux pas
- ▶ Review of material previous covered

2

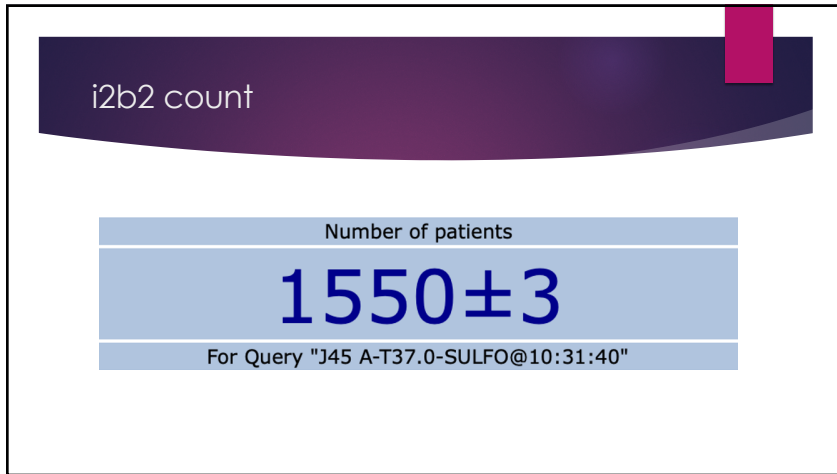
i2b2 Demonstration - Sequence of Events

3

Adverse Reaction to SULFONAMIDE

- ▶ Research interest:
 - Diagnosed with asthma.
 - Treated with **SULFONAMIDE**
 - Had adverse reaction to **SULFONAMIDE**

4



5

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Sequence of Events

”

Defining : The Population in which the event occur

7

Sequence of event

Defining : The Population in which the event occur

► Research interest:

- Diagnosed with asthma.
 - ICD 10 : J45
 - ICD 9 : 493

Dx with Asthma → Treated w/ SULFONAMIDE → Adverse Reaction to SULFONAMIDE

8

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Sequence of Events

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Defining : Events

9

Sequence of event

Defining : Event 1

Groups :

- Received SULFONAMIDE
- RXNORM : 691843

```

    graph LR
      A[Dx with Asthma] --> B[Treated w/ SULFONAMIDE]
      B --> C[Adverse Reaction to SULFONAMIDE]
    
```

10

Sequence of event

Defining : Event 2

Groups :

- adverse effects to SULFONAMIDE
- ICD 10 : T37.0
- ICD 9 : 961.0, Z88.2, 995.2, 995.3, V14.2, E931.0

```

    graph LR
      A[Dx with Asthma] --> B[Treated w/ SULFONAMIDE]
      B --> C[Adverse Reaction to SULFONAMIDE]
    
```

11

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Sequence of Events

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Defining : Order of events

12

Sequence of event

Defining : The Order of Events

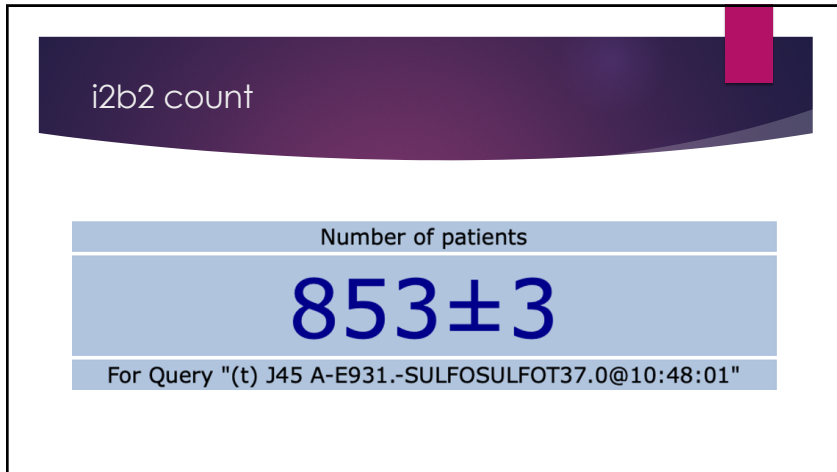
Event 1 :

- received SULFONAMID

Event 2:

- Adverse event to SULFONAMID

13



14

Sequence of event

Defining : The Order of Events

Event 1 :

- received SULFONAMID

Event 2:

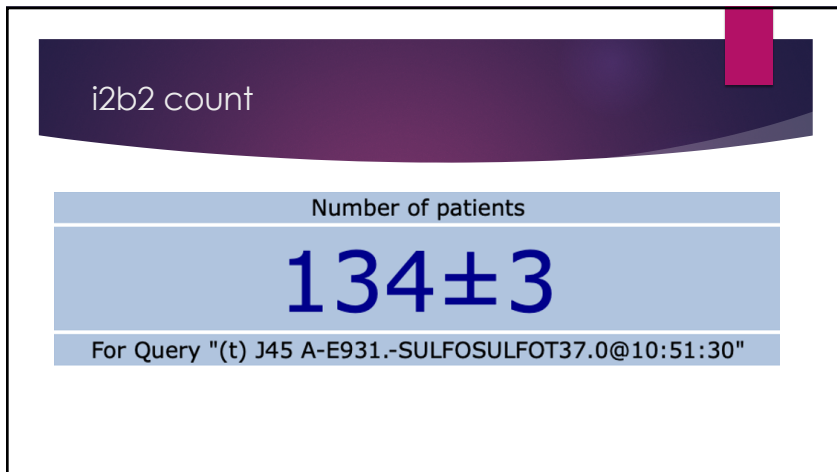
- Adverse event to SULFONAMID

Additional :

Refine results with strict window between administration/ prescription and reaction

Event 2 occurred <= 30 days after Event 1

15



16

“ Sequence of Events ”

Defining : Adding events

17

Sequence of event

ADDING : Additional Events

Event 1 :

- received SULFONAMID
- RXNORM : 691843

Event 2:

- Adverse event to SULFONAMID

Event 3:


- Received ADRENAL CORTICOSTEROIDS

19

Adverse Reaction to SULFONAMIDE

► Research interest:

- Individuals of any age, diagnosed with asthma.
- Treated with **SULFONAMIDE**
- Had adverse reaction to **SULFONAMIDE**
- Received ADRENAL CORTICOSTEROIDS.



20

Sequence of event

Defining : Event 3

Groups :

- received ADRENAL CORTICOSTEROIDS
- RXNORM : 354

21

i2b2 count

Number of patients

57 ± 3

For Query "(t) J45 A-E931.-
SULFOSULFOT37.0ADREN@11:05:48"

22

Summary

- ▶ Common pitfalls:
 - ▶ - always verify the temporal restraints of your query
 - ▶ - always use both ICD 9/ 10 when applicable
 - ▶ - always verify age is coming from the desired source (current vs age at encounter)
 - ▶ - always be specific about ages to be included. When excluding age groups, individuals with null ages are included in the results.

48

Access i2b2

- ▶ Request access:
 - ▶ <https://idr.uflhealth.org/research-services/data-request-form/>
 - ▶ Select 'i2b2 Registration'
- ▶ View training material:
 - ▶ <https://idr.uflhealth.org/research-services/feasibility-cohort-discovery/uf-health-i2b2-training-tools/>
- ▶ Access:
 - ▶ <https://i2b2.idr.uflhealth.org/>

33

i2b2 support

i2b2support@ahc.ufl.edu

34

i2b2 resources

- UFHealth i2b2**
 - ▶ Project overview: <https://idr.uflhealth.org/research-services/feasibility-cohort-discovery/>
 - ▶ Training: <https://idr.uflhealth.org/research-services/feasibility-cohort-discovery/uf-health-i2b2-training-tools/>
 - ▶ Request access: <https://idr.uflhealth.org/research-services/data-request-form/>
 - ▶ i2b2 support: i2b2support@ahc.ufl.edu
 - ▶ Access: <https://i2b2.idr.uflhealth.org/>
- OneFlorida i2b2**
 - ▶ Project overview: <https://onefloridaconsortium.org/front-door/oneflorida/>
 - ▶ Training: <https://onefloridaconsortium.org/front-door/oneflorida/#go-to-training-section>
 - ▶ Request access: <https://onefloridaconsortium.org/i2b2/webform/i2b2.html> or <https://idr.uflhealth.org/research-services/data-request-form/>
 - ▶ i2b2 support: i2b2support@onefloridaconsortium.org
 - ▶ Access: <https://i2b2.oneflorida.ahc.ufl.edu/>
- NCATS ACT i2b2**
 - ▶ Project overview: <http://www.act.ncats.nih.gov/act-i2b2/>
 - ▶ Training: <https://www.act.ncats.nih.gov/act-i2b2/#click-on-how-to-resources>
 - ▶ Request access: <https://idr.uflhealth.org/research-services/data-request-form/>
 - ▶ i2b2 support: i2b2support@act.ncats.nih.gov
 - ▶ Access: <https://act.idr.uflhealth.org/443/shrine-act/shrine-web-client>

49