

WAS UNSER DIZ BEREITS KANN:

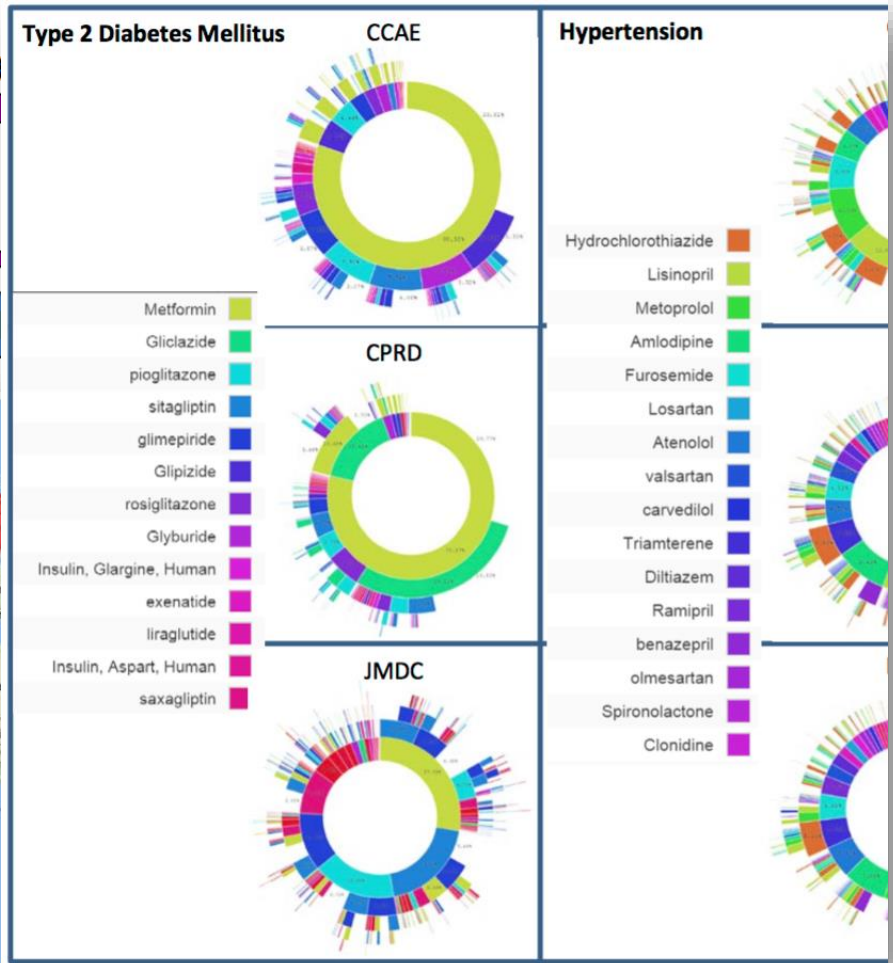
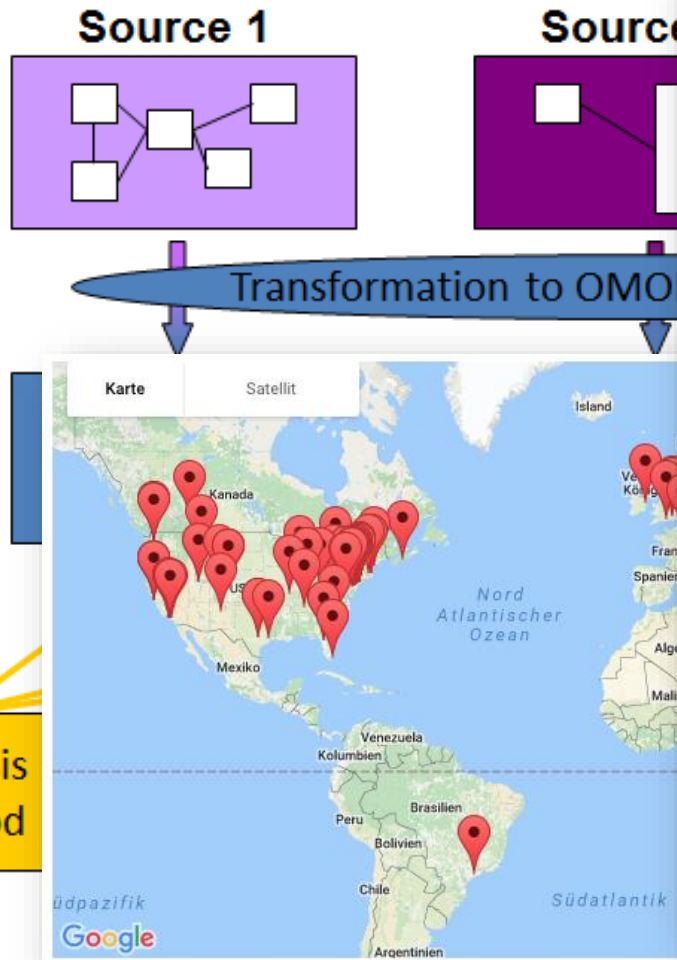
DATENANALYSE FÜR PATIENTEN MIT KOLOREKTALEM KARZINOM

Dr. Martin Sedlmayr

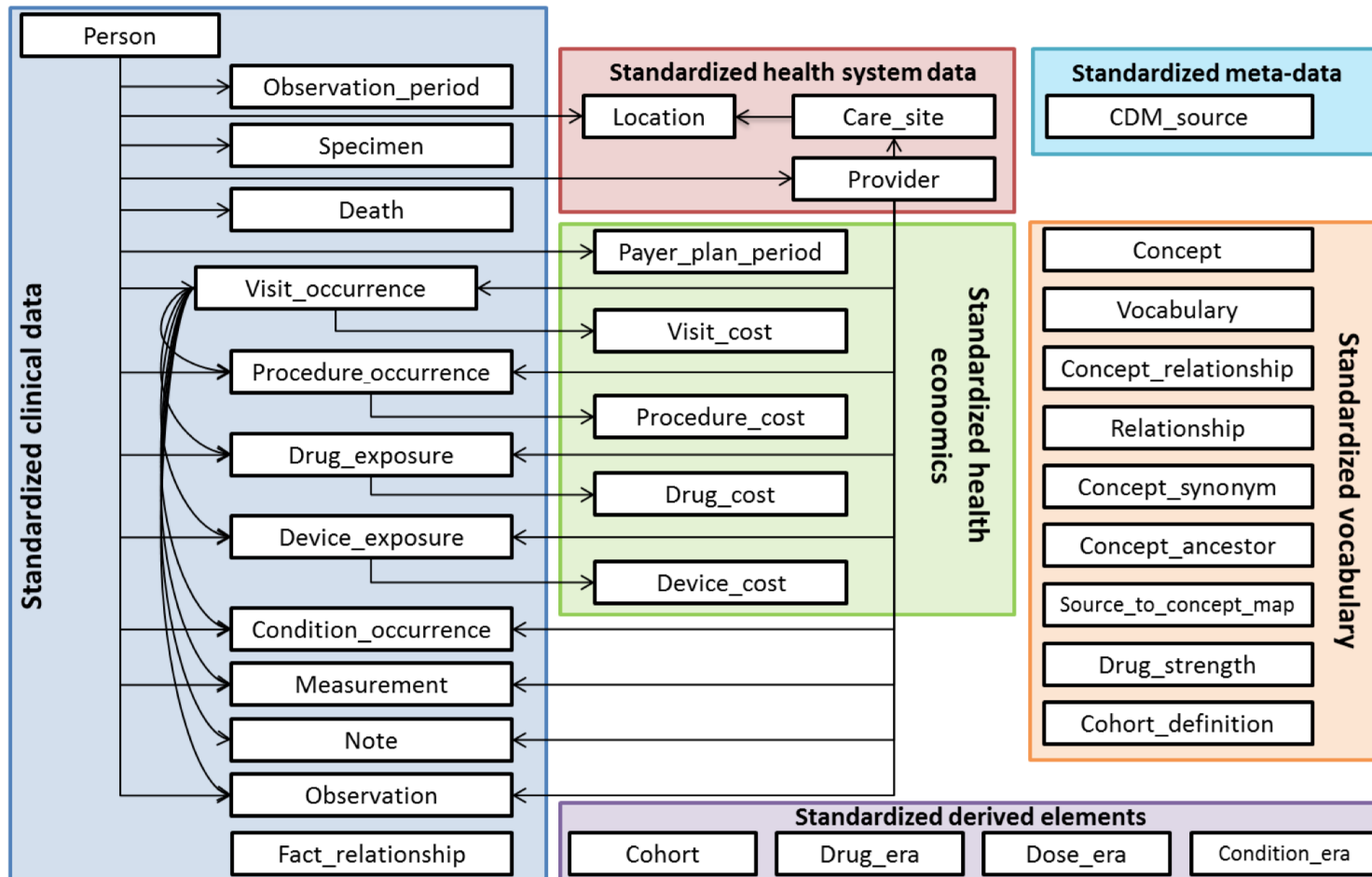
23.02.2018

MIRACUM Symposium

Das OMOP Datenmodell und die OHDSI Community



OMOP Datenmodell



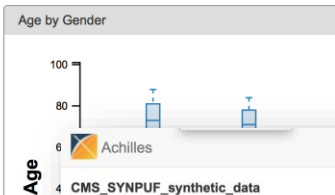
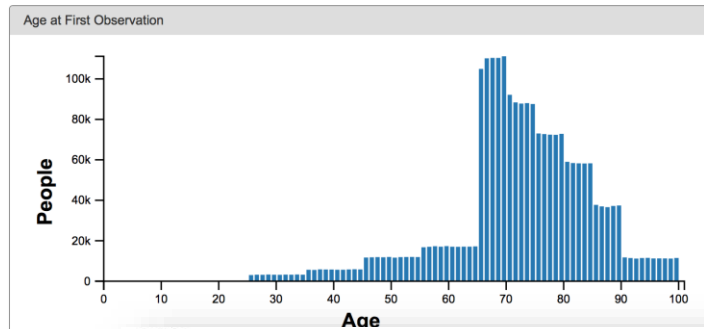
ACHILLES – Überblick des Korpus und Beurteilung der Datenqualität



Data Sources ▼ Reports

CMS_SYNPUF_synthetic_data

Observation Periods



CMS_SYNPUF_synthetic_data

Achilles Heel Report

Data Quality Messages

Search:

Message Type	Message
ERROR	301-Number of providers by specialty concept_id; 3 concepts in data are not in correct vocabulary (Specialty)
ERROR	302-Number of providers with invalid care site id; count (n=207,179,431) should not be > 0
ERROR	400-Number of persons with at least one condition occurrence, by condition_concept_id; 488 concepts in data are not in correct vocabulary
ERROR	410-Number of condition occurrence records outside valid observation period; count (n=1,180,038) should not be > 0
ERROR	413-Number of condition occurrence records with invalid visit_id; count (n=373,765,380) should not be > 0
ERROR	510-Number of death records outside valid observation period; count (n=5,041) should not be > 0
ERROR	600-Number of persons with at least one procedure occurrence, by procedure_concept_id; 48 concepts in data are not in correct vocabulary
ERROR	610-Number of procedure occurrence records outside valid observation period; count (n=742,005) should not be > 0
ERROR	613-Number of procedure occurrence records with invalid visit_id; count (n=219,229,327) should not be > 0
ERROR	710-Number of drug exposure records outside valid observation period; count (n=75,542) should not be > 0
ERROR	713-Number of drug exposure records with invalid visit_id; count (n=111,085,969) should not be > 0
ERROR	810-Number of observation records outside valid observation period; count (n=57,605) should not be > 0
ERROR	813-Number of observation records with invalid visit_id; count (n=21,023,185) should not be > 0
ERROR	1,601-Number of procedure cost records with invalid payer plan period id; count (n=181,625,043) should not be > 0
WARNING	400-Number of persons with at least one condition occurrence, by condition_concept_id; data with unmapped concepts

Showing 1 to 15 of 25 entries

Copy CSV Excel PDF Print

Previous 1 2 Next

ATLAS – Suche in den Daten & Zusammenstellung von Kohorten



ATLAS

Home

Data Sources

Vocabulary

Concept Sets

Cohorts

Incidence Rates

Profiles

Estimation

Prediction

Jobs

Configuration

Feedback

Cohorts

New Cohort

Column visibility Copy CSV Show 15 entries Filter:

Showing 1 to 15 of 1,552 entries

Last Modified

2+ Weeks Ago (1552)

Author

anonymous (1539)

system (13)

Id

Name

101431

Vinci Type 2 Diabetes

98575

mt-[CAAD] Cohort C

98077

Initial criteria - obser

100153

Rheumatoid arthritis

99123

What can visit occur

99129

WE HEART KIDS: T2D

98091

[GRao] Quality Meas

98840

[I] temo

98995

asdeagsdaed

CS1

101

MALE | 107 events | Age 84 at index

levothyroxine (4)

Hydrochlorothiazide 25 MG / Spironolactone 25 MG Oral Tablet (2)

Hydrochlorothiazide (2)

Triamterene (2)

Diltiazem (2)

Gemfibrozil 600 MG Oral Tablet (2)

Simvastatin (2)

Proliferative diabetic retinopathy (2)

Hypertensive retinopathy (2)

thyroid (USP) (2)

Amoxapine 25 MG Oral Tablet (1)

Clotrimazole (1)

Diazepam (1)

Diazepam 10 MG Oral Tablet (1)

Chlorthalidone 25 MG Oral Tablet (1)

Amoxapine (1)

24 HR venlafaxine 37.5 MG Extended Release Oral Capsule [Effexor] (1)

Chlorthalidone (1)

Fosinopril Sodium 20 MG Oral Tablet (1)

Betamethasone 0.5 MG/ML / Clotrimazole 10 MG/ML Topical Cream (1)

Domain

drugera (52)

drug (49)

condition (2)

conditionera (2)

visit (1)

condition

conditionera

drug

drugera

procedure

visit

Column visibility Copy CSV

Show 15 entries

Showing 1 to 15 of 107 entries

Previous 1 2 3 4 5 ... 8 Next

Domain

Concept Id

Concept Name

Start Day

End Day

drug

19019937

torsemide 100 MG Oral Tablet

0

0

drugera

942350

torsemide

0

30

drug

40242777

Levobunolol Hydrochloride 5 MG/ML Ophthalmic Solution

68

68

drugera

932815

Levobunolol

68

98

Overview Reports

Summary Statistics:

Match Rate

18.15%

Matching Persons

12061

Total Persons

66443

Inclusion Rule

1. Prior atrial fibrillation

2. No prior warfarin ever

3. No prior dabigatran ever

4. No prior anticoagulants in past 183 days

5. No mechanical heart value or mitral stenosis

6. No dialysis in last 30 days

7. No history of kidney transplant

8. Not at long-term care visit

% Satisfied

23.31%

100.00%

98.80%

98.05%

94.99%

98.97%

99.61%

97.29%

% To-Gain

71.19%

0.00%

0.17%

0.38%

2.23%

0.39%

0.06%

0.70%

<http://www.ohdsi.org/web/atlas/#/home>

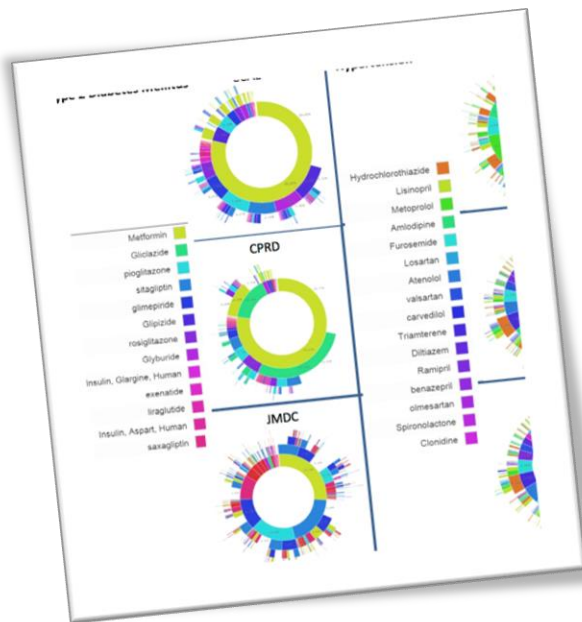
FAU FRIEDRICH-ALEXANDER
UNIVERSITÄT
ERLANGEN-NÜRNBERG
MEDIZINISCHE FAKULTÄT

OMOP in MIRACUM

Fragestellung im Usecase

Am Beispiel kolorektales Karzinom:

- Wie ist die Behandlungsfolge
 - Operation
 - Bestrahlung
 - Chemotherapie
 - kombinierte Chemo/Bestrahlung
- in Abhängigkeit der Lokation des Tumors
 - Dickdarm (ICD 18)
 - Übergang (ICD 19)
 - Rektum (ICD20)

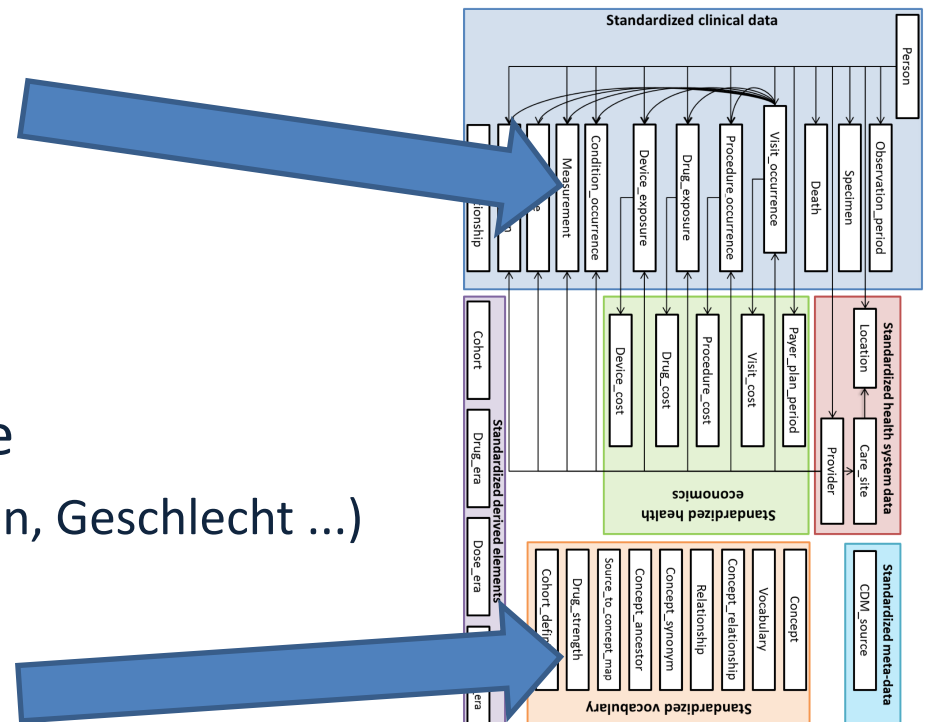


OMOP in MIRACUM

Mapping der Daten



- Mapping der Fakten
 - Patienten
 - Fälle
 - Diagnosen
 - Prozeduren
- Mapping der Terminologie
 - Sonstiges (Fachabteilungen, Geschlecht ...)
 - ICD-10-GM auf SNOMED
 - OPS



OMOP in MIRACUM

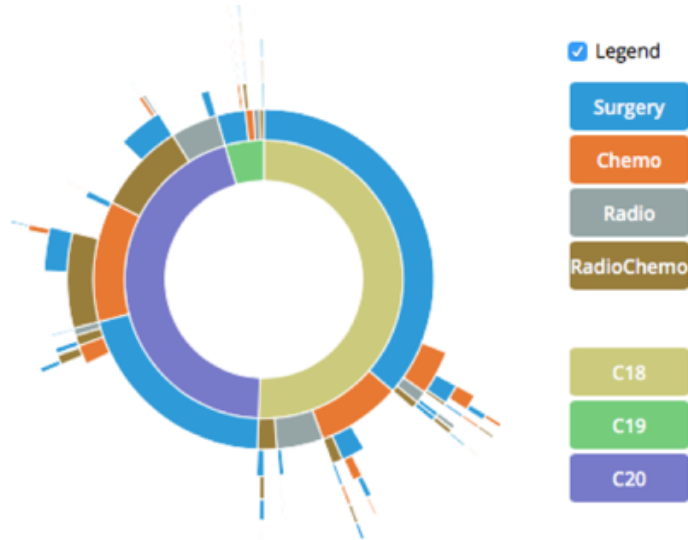
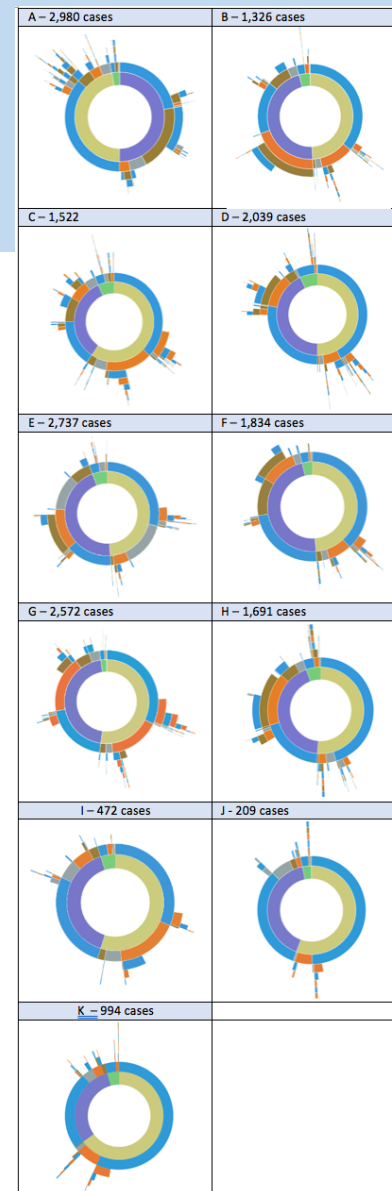


Figure 1: Combined Sunburst-Plot of 18,376 Cases from 10 University Hospitals

- 11 University Hospitals
- 3,3 Mio Patients
- 30 Mio Diagnosis
- 23 Mio Procedures



Vielen Dank für Ihre Aufmerksamkeit



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MITGLIED DER



Bundesministerium
für Bildung
und Forschung

FKZ 01ZZ1801A

