

dybh

NIHDI

database anonymized
set

"DOC, PH"

Medication delivery in all BE hospitals
{ 1994 - now }

14000 - ^{~17000} 16000

AGENDA of workshop

- notes*
✓ * objective (HACK = ²⁶ 14000 - 24000 25/01
+ 0000 - 18000 26/01
✓ * used for
✓ * explain metadata { variables meaning }

FAIR (2016) ~~Fair~~ 15 principles.

- (4) Findable rich, unique metadata
(4) Accessible API protocol + credentials
(3) Interoperable ~~for~~, from, ~~etc~~ easy to interpret
(4) Reusable ? ± digitalbelgium

fair.healthdata.be { ? user account }

↳ ~ 32 644 datasets (tiny)

Q: Can I predict how many healthcare visits
that I will have ?

Q: a simple tool KIT for doctors to do
data science like analytical tests to
determine the normal range of variation in
patients with this background.

medical data in omics
see doc.ai / omics

Phenome	Height, Age, Weight
Exposome	Air Quality, Walkability
Physiome	Blood pressure, Heart rate, Sleep, Steps
Clinome	Clinic visits, conditions, procedures
Proteome	Proteins, lab tests, urine, hemaglobin, glucose
Pharmacome	vaccines, medications, supplements
Microbiome	microbes living inside skin, nose, gut, mouth
Genome	ancestry, traits, family eye color, risk of disease

for example allergies

Q: possible influencers ?

Q: symptom outcomes ?

pharmaceutische producten
aan ziekenhuizen

financiële

PH

Tydsas = 6 maanden

- patiënten in ziekenhuis
- patiënten in ambulans

① mutualistische sture elke 6 maanden
de kosten en medicatie lysten. op
leed rapport "MORSE"

surveillance des dépenses

21 kolommen

jaar en periode. van levering.

provincie. instelling.

type van ziekenhuis < psychisch
ander.

hosp - serv - id

identiteit van de service.

rank - cat - id

categorie.

A C — amurer for payroll.
B D etc ...

(zie ref table)

drug-code = ~~CNA~~ name + dosering
van de drug.
(+ zie externe tabel)

realisation-date

Quantity number of times delivered/used.

~ 1,5 milj records / jaar.

16 jaar. 2002 - 2017 24,8 rows.

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keep the data private during Hackathon
later will be publicly available.

data is strongly FACT checked.

ATC table? voor elke vergaeking.
for drug-code

see www.befi.be ++ ∇

EMD databank

~~chemie~~

"pubmed"

"pubchem" database.
↳ chemistry

drugland.co

↳ history of drugs on market

ATC = product code

= pathology? production.

maker of beds => health.belgium.be

↳ privacy

↳ quality

↳ etc...

statbel.fgov.be

IDEA? ↳ forecasting on population data.

↳ leathymorbidities

↳ causes of tot death

IDEA?

| so we see a decrease
| in mortality? predict cause
| of death

↑
{ see CNK etc }

git repo on HALK event

DRG ?? pathology

Practicalities

@ digitiser.

~~Simon's 40 min.~~

create/invite subscribe

Team = business + engineer. !

complex. data project.

info @ dataforbetterhealth

vis 18000 - 17000 pitch
sat 16000 - 18000 demo presentation.

they want to learn from us

Nicola ferara.