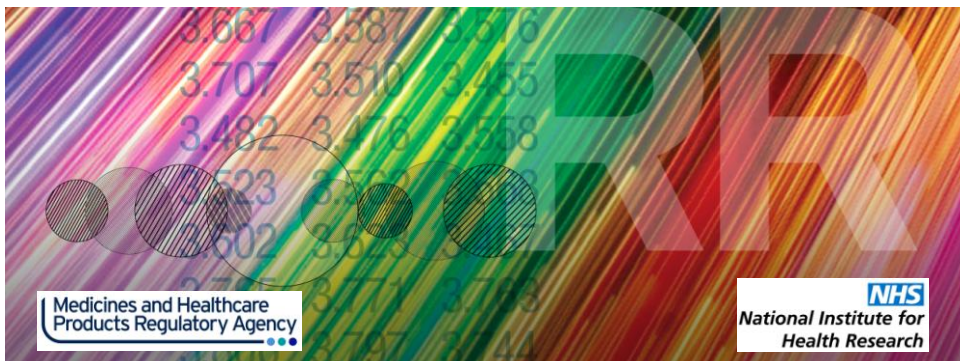


CPRD Clinical Practice Research Datalink

Delivering data (services)
to
drive research



Quality • NHS Clinical • Linkage • Real world • Randomised • PROs • Population 52M+



Driving research

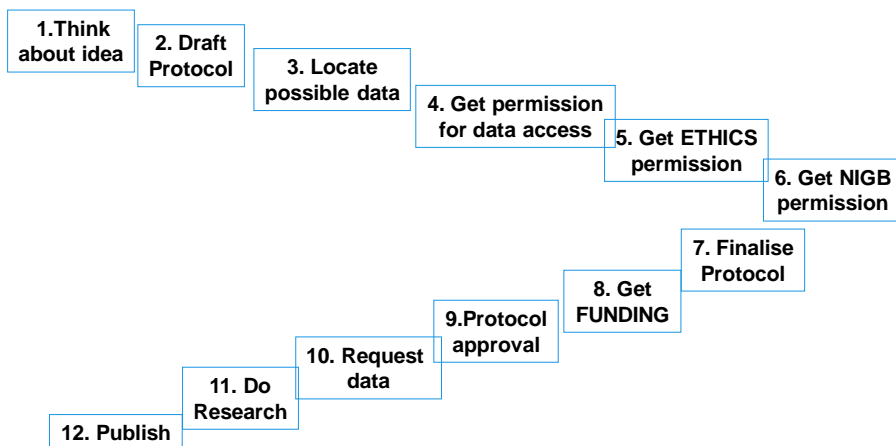
- More time
- More population cover
- More linked data
- More opportunities- types of research
- More collaborations



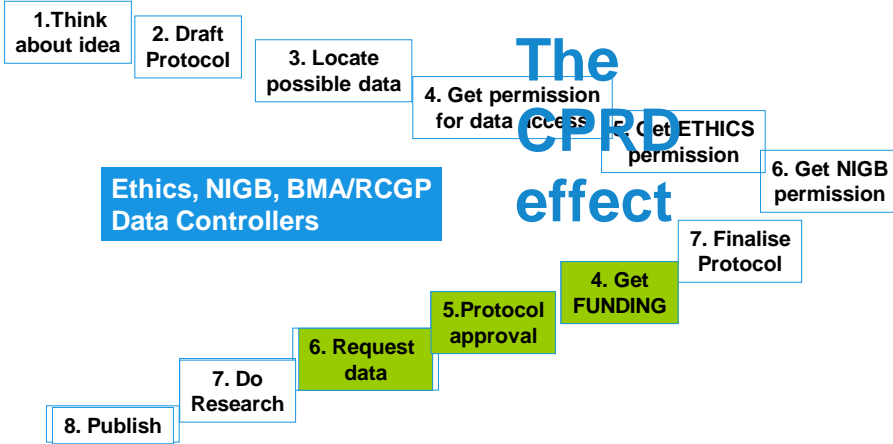
More time for actual research



Typical data research project

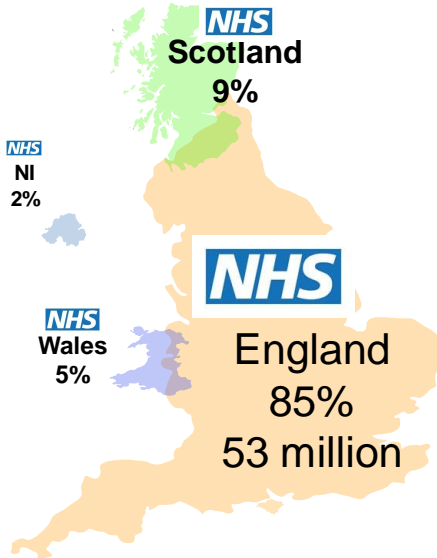


Typical data research project



More population cover





CPRD - the English NHS Research Service

- Data understanding
- Dedicated team (inc Researchers)
- Quality metrics
- Governance approvals
- ISAC
- GP, historic data
- Dictionaries
- Published papers
- Global credibility
- Funding contacts
- (MRC arrangement)
- PCRN
- IT suppliers



Primary Care recruitment

PCRN 2000 + practices

Editorials BJGP June 2013

Unlocking the research potential of the GP electronic care record

The electronic records of patients registered with UK NHS general practices contain a wealth of data and have the potential to make a major contribution to medical science.^{1,2} Representing over 95% of the entire population and often spanning several decades of an individual's life, they include a summary of key health events and a detailed record of activities relating to prevention, prescribing, and

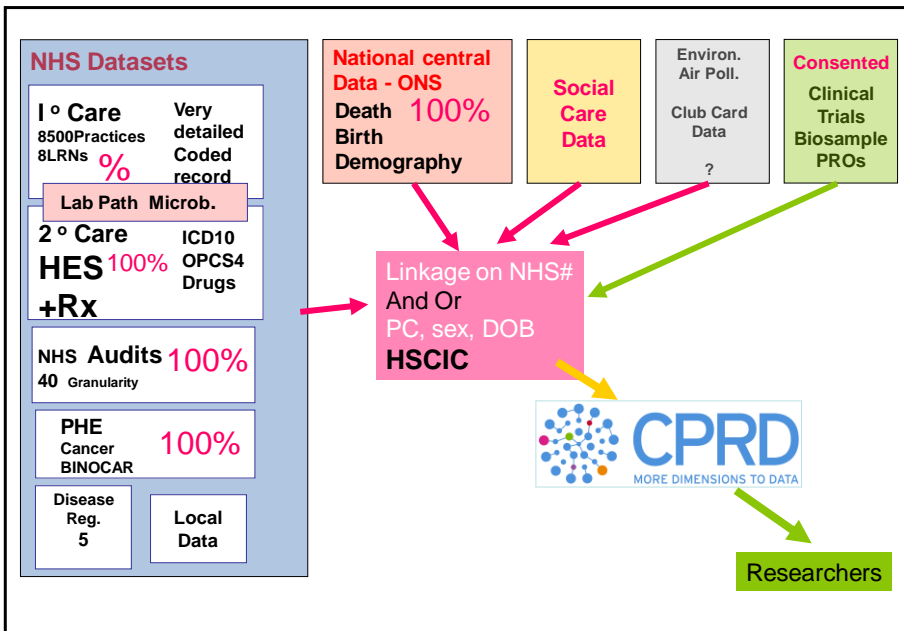
It is critical practices embrace the opportunity and engage..

"The General Practice Research Network (GPRN) has been in existence for more than 20 years and has collected data from practices covering approximately 8% of the UK population."

Failure to do so would significantly detract from achieving CPRD's full potential in benefiting patient care

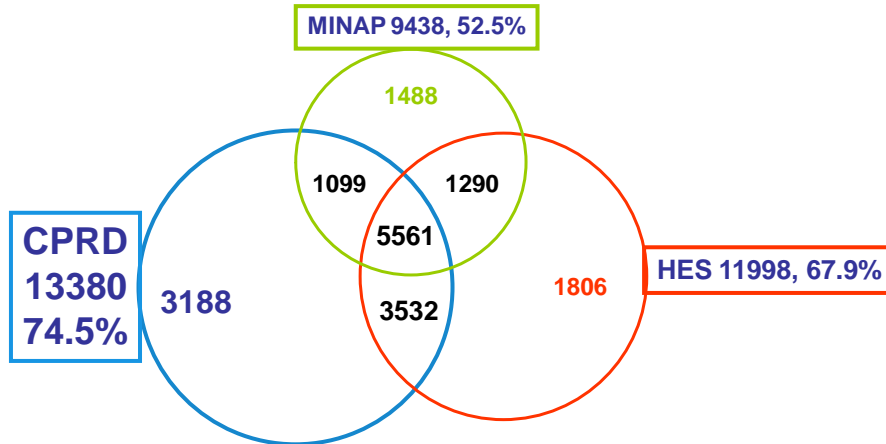


More linked data



Triple linkage- MI -17,964n

BMJ paper May 21st 2013



Some CPRD numbers

- 53 million active patients (cradle to grave)
- 2.7 billion consultations (27)
- 98 million hospital referrals (980)
- All 53 m have lab results
- 1.4 billion lab results (14)
- 2.5 billion prescriptions (25)
- 22 million immunisations (250)
- 25 years plus data
- Low total churn





More collaborations

NIHR

AHSNs

HeRCs

HSCIC

LRNs

MRC+++

InPS, CSC, EMIS, TPP



More types of research



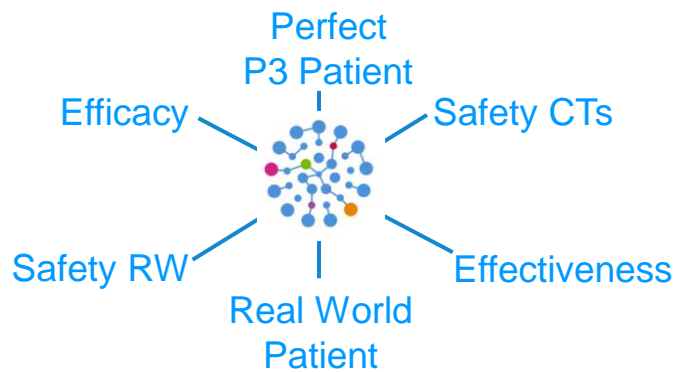


Unlocking the potential of OTHER Patient Data in Research

Observational & Interventional



Real World to Clinical Trial



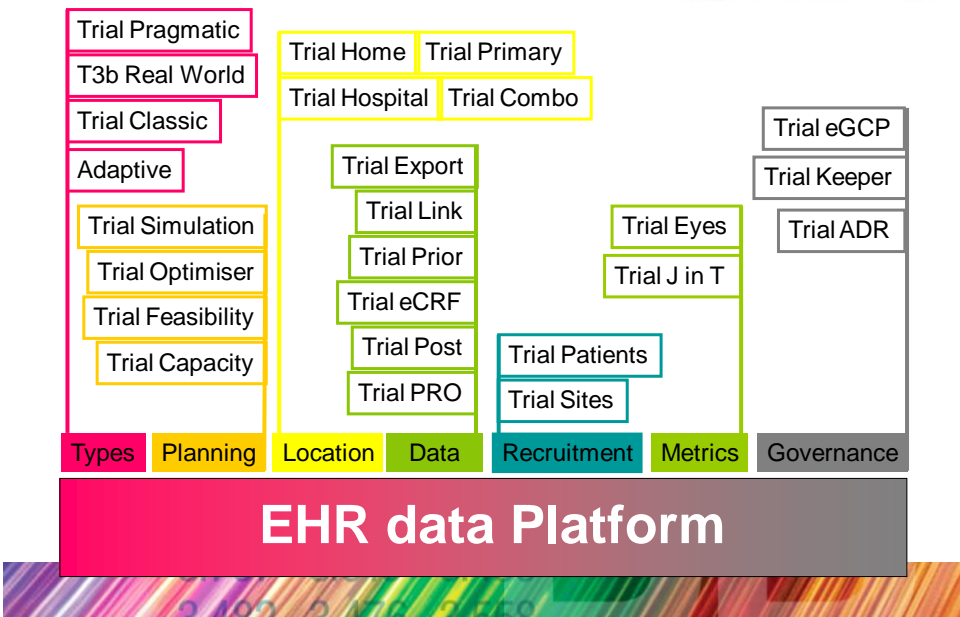
CPRD

The

EHR Data Platform

for Clinical Research

Clinical Trials.....Patient Reported Data.....Samples



CPRD Pragmatic Point of Care randomisation

In one GP EHR - InPS
On-going inclusion in EMIS/TPP

- Auto-detection of patients via EHR
- On screen messages
- Randomisation
- Normal prescription
- All data in EHR

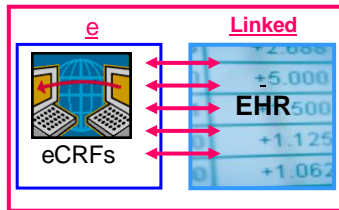
Pragmatic randomised trials using routine electronic health records

What to prescribe for a patient in general practice when the choice of treatments has a limited evidence base?

Tjens-Poeter van Stan and colleagues argue that using electronic health records to enter patients into randomised trials of treatments in real time could provide the answer



CPRD Interventional efficiency



CPRD trialviz

- *Feasibility, Optimisation,
- *Site Recruitment, Patient Recruitment
- Based upon Primary Care Data
- Demography, 1^o Care, Hospitalisations(DS), Labs, Life style
- *Currently 5+ million active patients
- *IT ready for 50+ million
- *Simple to use
- *Very fast



AAADepression

	1,108,006	162,695	23,556	17,227	7,533	7,533	5,127	4,777
	N							
Search Details	Stack #1 Depres Screen	Stack #2 Depres Screen	Stack #3 AND/OR NOT	Stack #4 SSInhibs	Stack #5 Creatinine	Stack #6 bmi	Stack #7 Venlafaxine Prozac	OR
	INCLUSION		EXCLUSION					
Search Details								+ = 4,777

Search Details Options: [Modify](#)

Name: AAADepression

Description:

Threshold: 5,000

Patient Demographics Options: [Modify](#)

Date of Birth: Between 06 Apr 1968 and 06 Apr 1928

Selected Gender: Female

Practice Filters - Post Code, LRN, CLRN, AHSN Options: [Modify](#)



Trial viz



Trial Feasibility



Demographic Filtering

Date of Birth: and

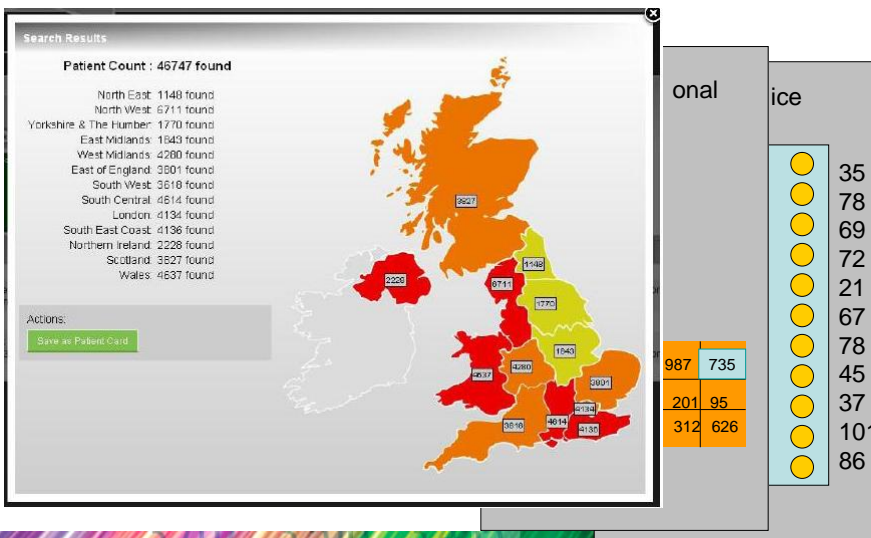
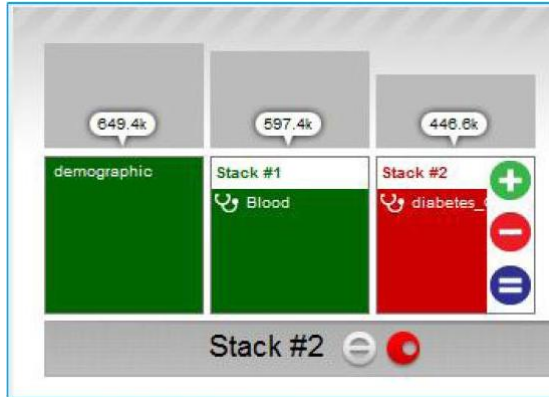
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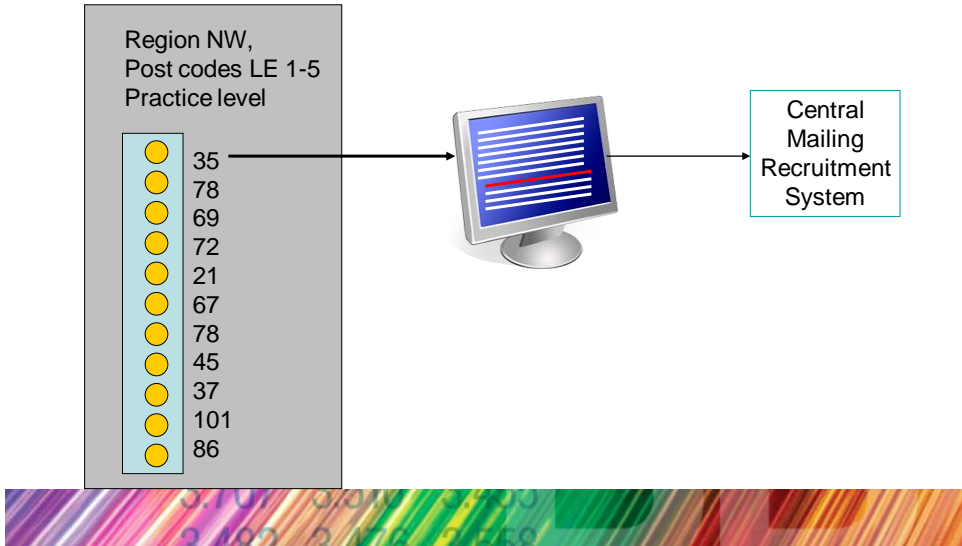
Female Male Indeterminate Unknown

Exclude Genders

Cancel Accept



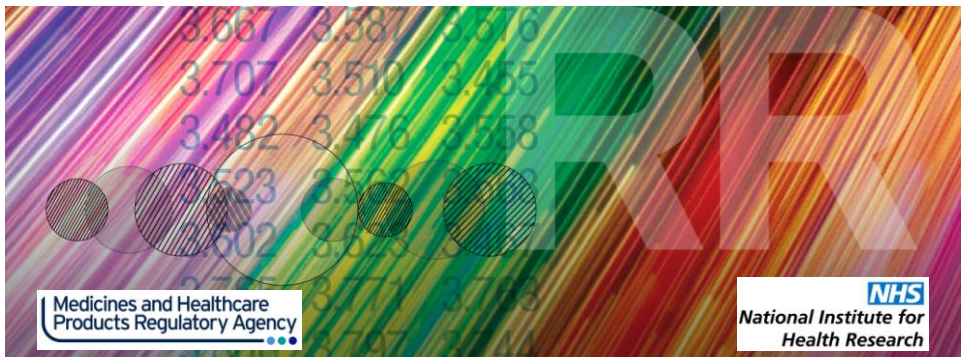




CPRD Clinical Practice Research Datalink

Delivering data (services)
to
drive research

john.parkinson@cprd.com



Medicines and Healthcare Products Regulatory Agency

NHS
National Institute for Health Research