

Development and implementation of a Reporting Function within Electronic Medical Records

D Swan, A Hannigan, S Higgins, R McDonnell, D Meagher, W Cullen



Background

- Move towards mental health care being provided in the community
- GPs well-placed to improve detection and treatment of mental health problems

However:

- Little systematic data on prevalence and profile of mental health problems in general practice

Aim

- Improve data collection on mental health problems among patients attending general practice, including:
 - prevalence
 - profile
 - co-morbidity
 - treatment
- Facilitate primary care-based mental health research



Process

- December 2013 – engagement with the Irish Primary Care Research Network (IPCRN) and Socrates
- June 2014 – the tool was incorporated into all (c. 600) Socrates GP practice information systems
- Ethical approval received from ICGP REC June 2014



Development of the tool

- The 'finder' searches for patients based on:

A. Diagnostic coding:

ICPC2/ICD10 codes related to **depression, panic/other anxiety disorders, somatoform disorders, alcohol disorders, substance use disorders, eating disorders, cognitive disorders, and other disorders.**

B. Medications prescribed:

ATC classes of medication including: antipsychotics, anxiolytics, hypnotics and sedatives, antidepressants, psychostimulants, agents used for ADHD and nootropics, psycholeptics and psychoanaleptics in combination, anti-dementia drugs, and methadone.

- Data output as single row per patient of boolean yes/no's under each category.

Diagnostic Coding

Panic /Other Anxiety Disorders

ICD 10 codes

F40 – Phobic anxiety disorders

F41 – Other anxiety disorders

F42 – Obsessive-compulsive disorder

F43 – Reaction to severe stress, and adjustment disorders

F48 – Other nonpsychotic mental disorders

ICPC2 codes

P01 – Feeling

anxious/nervous/tense

P02 – Acute stress reaction

P74 – Anxiety disorder/anxiety state

P78 – Neuraesthesia/surmenage




P79 – Phobia/compulsive disorder

Finder

Mental Health Version 1.0

Mental Health

A collaborative project developed by the iPCRN. Irish Primary Care Research Network.
The Irish College of General Practitioners, ICGP.
The Western Research and Education Research, WestRen.
HRB Centre for Primary Care Research.

Active Condition

Patient Criteria

DOB and

Age and

Gender




Patient Type

Default HCP

GMS Doctor

Patient Status

Registered and

Report

Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Add-Ins

Clipboard Font Alignment Number Styles Cells Editing

X1037

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
	Age	Gender	Status	Depression	Panic/Other Anxiety Disorders	Somatiform Disorders	Alcohol Disorders	Substance Use Disorders	Eating Disorders	Cognitive disorders	Other Disorders	N05A Antipsychotics	N05B Anxiolytics	N05C Hypnotics and Sedatives	N06A Antidepressants	N06B Psychostimulants, agents used for ADHD and nootropics	N06C Psycholeptics and psychoanaleptics in combination	N06D Anti-dementia drugs	N02AC52 Methadone	
1																				
2	44	Male	GMS	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No
3	42	Female	GMS	Yes	No	No	No	Yes	No	No	No	No	Yes	Yes	Yes	No	No	No	No	No
4	33	Female	GMS	No	Yes	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No
5	36	Female	GMS	Yes	No	No	Yes	No	No	No	No	No	No	No	Yes	No	No	No	No	No
6	54	Female	GMS	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No
7	38	Female	PRV	No	No	No	No	Yes	No	No	No	No	Yes	No	No	No	No	No	No	No
8	74	Female	GMS	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No
9	35	Male	GMS	Yes	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No
10	24	Female	GMS	Yes	No	No	No	No	No	No	No	No	Yes	No	Yes	No	No	No	No	No
11	21	Female	GMS	No	Yes	No	No	No	No	No	No	Yes	Yes	No	Yes	No	No	No	No	No
12	26	Female	GMS	No	No	No	No	Yes	No	No	No	No	Yes	No	Yes	No	No	No	No	No
13	39	Female	GMS	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
14	39	Female	GMS	Yes	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No

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Ready

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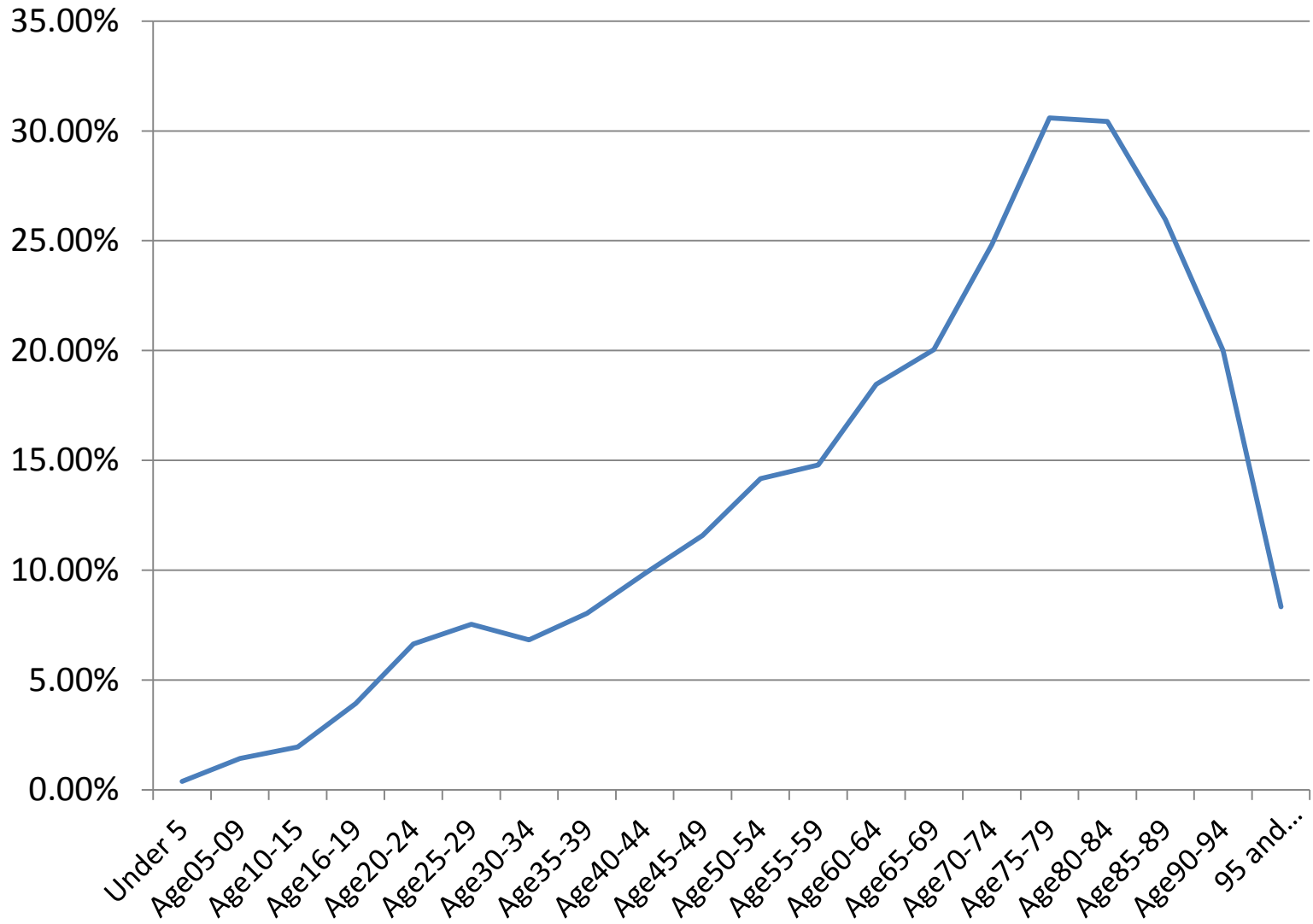
Pilot Study

- UL-affiliated GPs working in the Midwest (n=52) invited to participate via email
- 7 GPs participated
- GPs generated two reports :
 - (i) Mental Health Report
 - (ii) Practice Distribution Breakdown
- Reports anonymised, encrypted and emailed to researcher

Study Population

- Total active patient population n=44,756
 - 46% Male; 54% Female
 - 31% GMS; 68% Private
- 4,222 patients identified by finder: 9.43% (range 6.93% – 12.69%)
 - 38% Male; 62% Female
 - 74% GMS; 26% Private

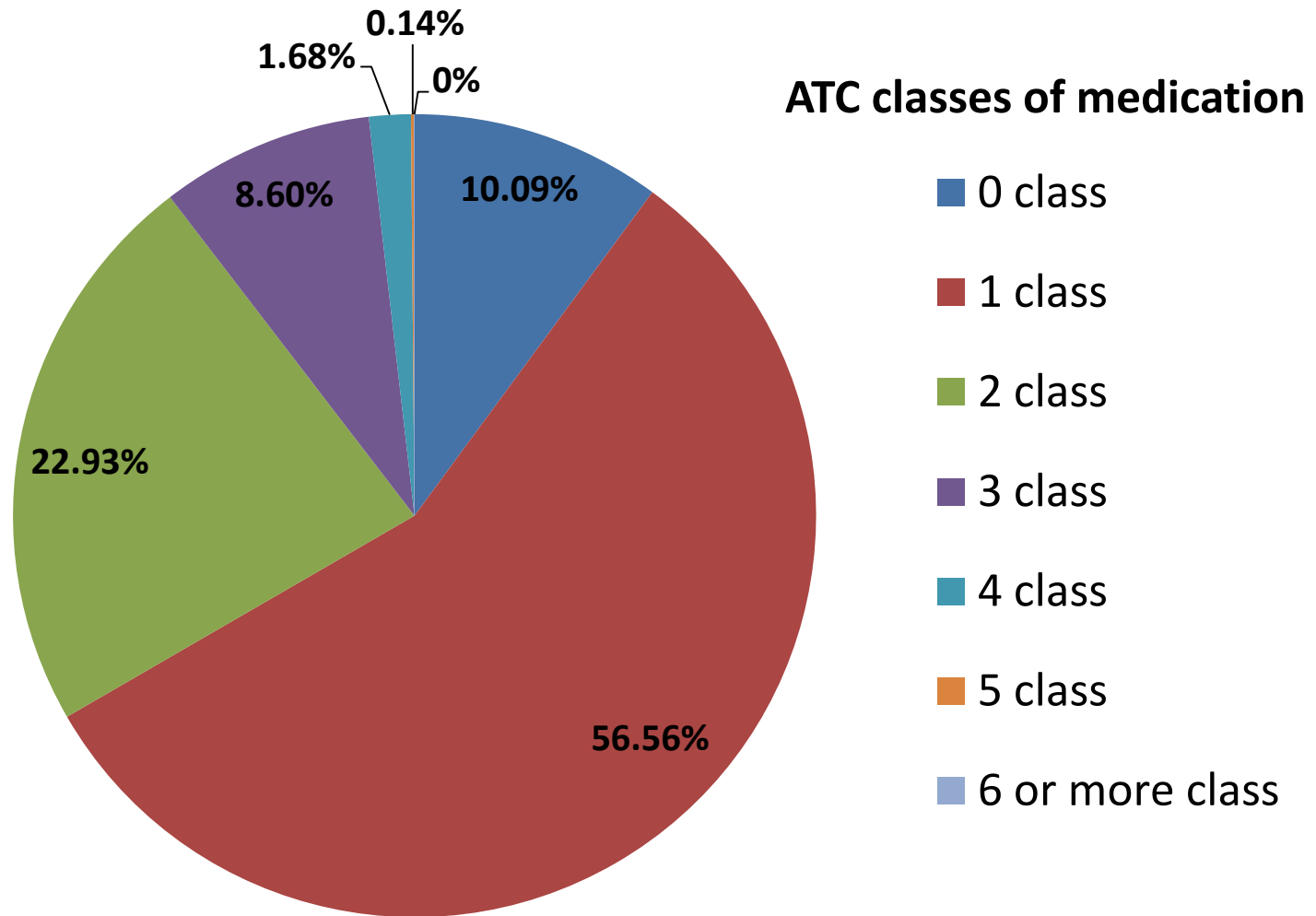
Prevalence across Age Groups



Profile of Patients

Disease coded condition	%	Psychotropic Prescription	%
Depression	11.46%	N06A Antidepressants	48.27%
Panic/Anxiety Disorders	5.68%	N05C Hypnotics and Sedatives	33.56%
Substance Use Disorders	4.55%	N05B Anxiolytics	33.40%
Alcohol Disorders	3.10%	N05A Antipsychotics	15.92%
Other Disorders	1.40%	N06D Anti-dementia drugs	2.30%
Cognitive Disorders	0.90%	N06B Psychostimulants, agents used for ADHD and nootropics	2.20%
Eating Disorders	0.07%	N06C Psycholeptics and psychoanaleptics in combination	0%
Somatoform Disorders	0%	N02AC52 Methadone	0%

Psychological Multi-morbidity



Discussion

- 9% of patients were identified as ever having a mental health or substance use problem
- One-third (33%) of those identified had been prescribed ≥ 2 ATC classes of psychotropic medication
- Facilitates data collection on prevalence, profile, co-morbidity, and treatment of a range of mental health problems
- Easy identification of patient samples for mental health research