



Identifying high risk groups to prevent suicide - The National Confidential Inquiry into Suicide and Homicide in the UK

Professor Nav Kapur
The Centre for Suicide Prevention
University of Manchester

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National Confidential Inquiry into Suicide

Alison Roscoe	Alyson Ashton	Anna Pearson
Cathryn Rodway	Damian da Cruz	David While
Harriet Bickley	Huma Daud	Isabelle Hunt
James Burns	Jenny Shaw	Kelly Hadfield
Kirsten Windfur	Louis Appleby	Nav Kapur
Nicola Swinson	Pauline Turnbull	Philip Stones
Pooja Saini	Rebecca Lowe	Sandra Flynn



National Confidential Inquiry into Suicide

1. Context
2. Methods
3. What have we found and has it had any impact?
4. What else can we do?



1. Context



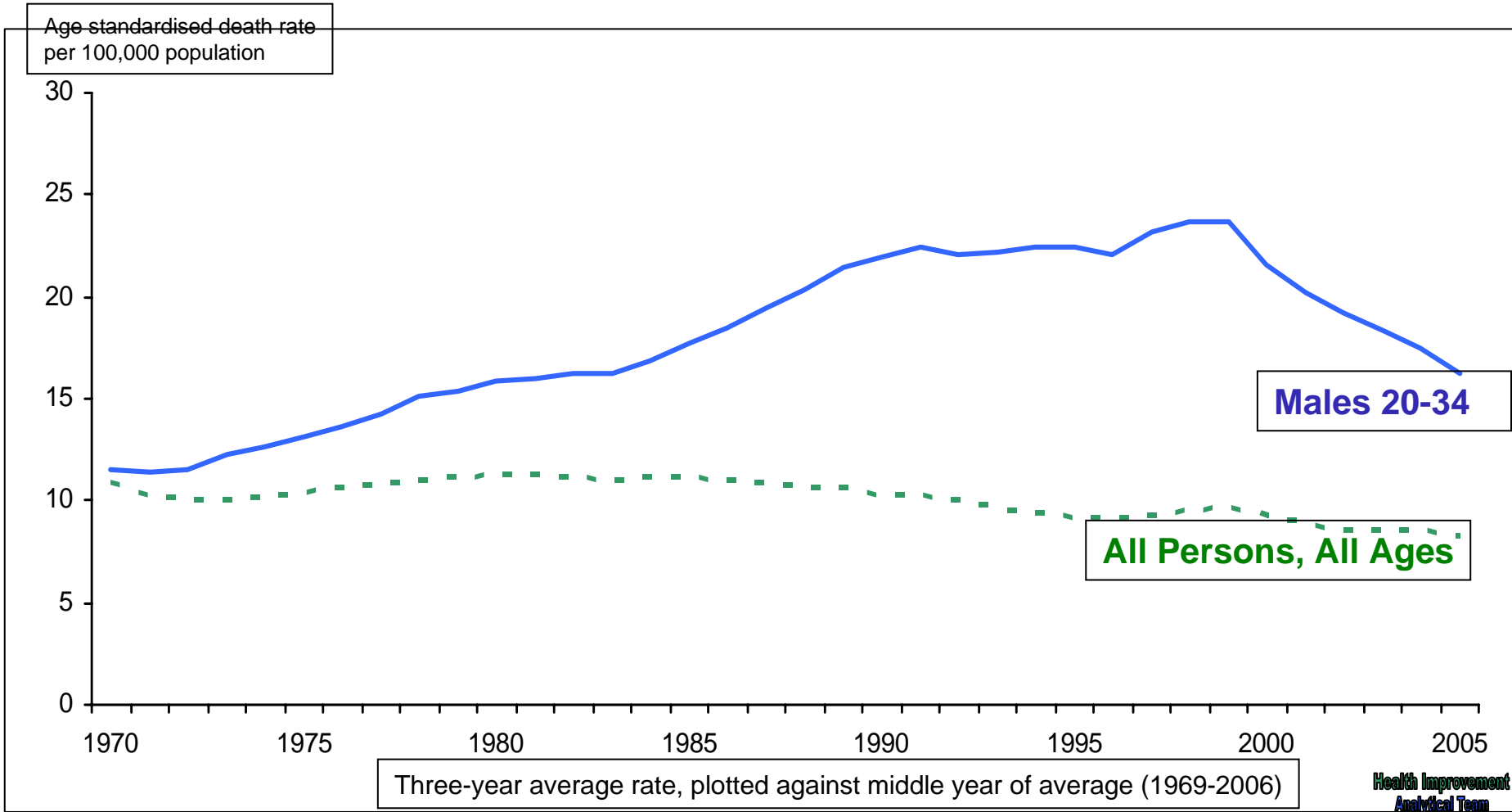
Context

- 4,500 suicides per year in England
- Suicide is a major contributor to premature mortality (in men 2nd to heart disease)

Fig 4:

Trend in suicide rate for young men (aged 20-34)

Death rates from Intentional Self-harm and Injury of Undetermined Intent, England



Rates are calculated using population estimates based on 2001 census. Rates are calculated using the European Standard Population to take account of differences in age structure. Years to 1998 and 2000 have been coded using ICD9; 1999 and 2001 onwards are coded using ICD10.

Source: ONS (ICD9 E950-E959, plus E980-E989, excluding E988.8 (inquest adjourned) ; ICD10 X60-X84, Y10-Y34 excl. Y33.9 (verdict pending))





Context

- 4,500 suicides per year in England
- Suicide is a major contributor to premature mortality in England
- Latest annual rate: 8.5 per 100 000 population

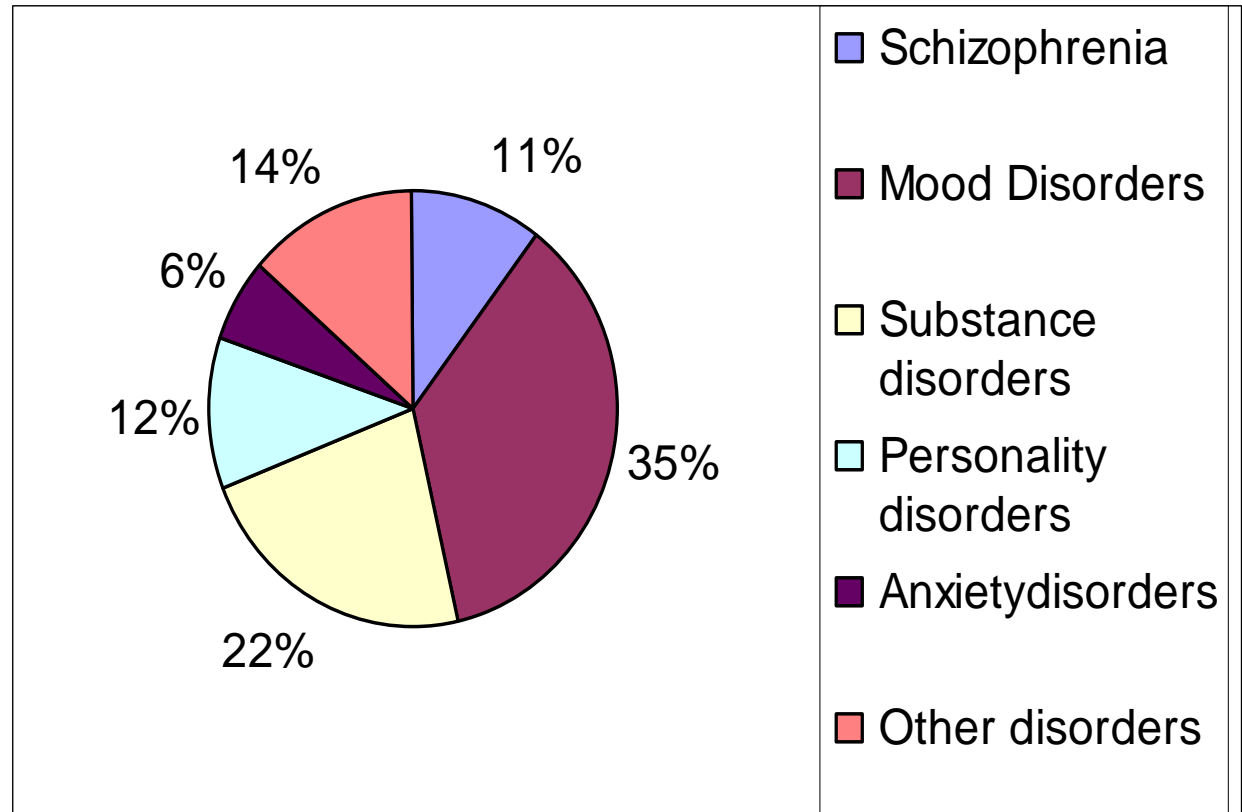


Suicide in mental illness

- Psychological autopsy studies
- Cohort studies



Psychological autopsy studies



(Bertolote & Fleischmann 2002)

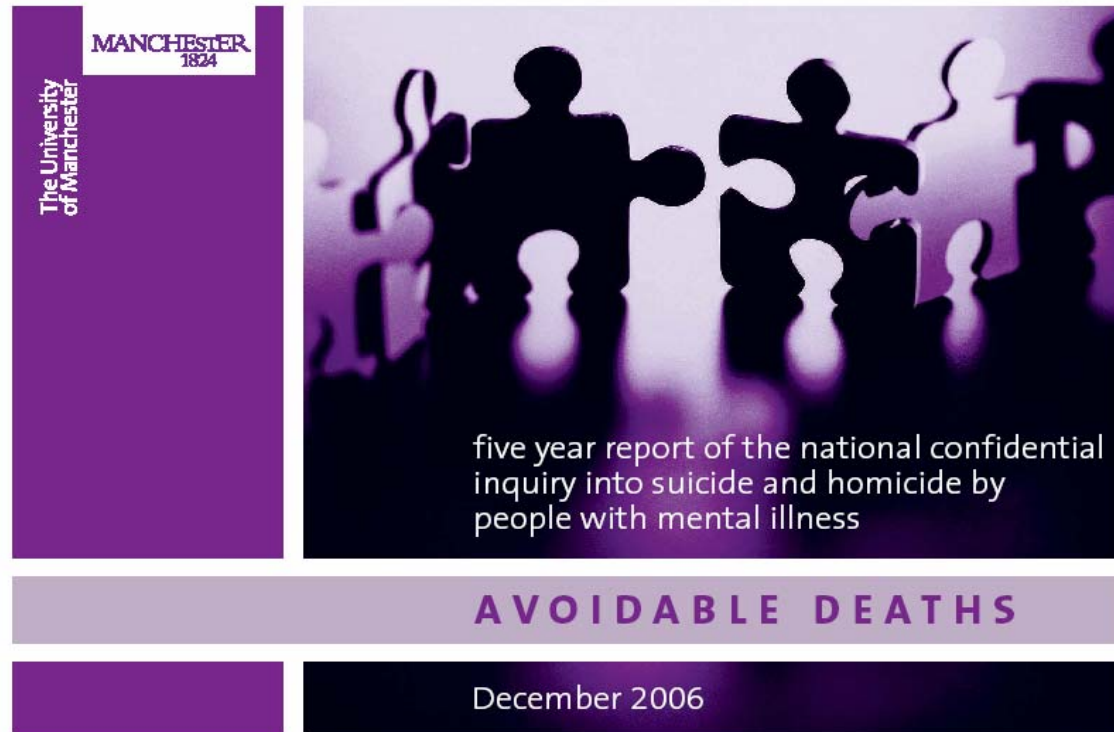


Cohort studies

Disorder	SMR
Schizophrenia	845
Bipolar disorder	1505
Major depression	2035
Dysthymia	1212
Panic disorder	1000
Alcohol misuse	586



Suicide in mental illness



MANCHESTER
1824

The University
of Manchester

five year report of the national confidential
inquiry into suicide and homicide by
people with mental illness

AVOIDABLE DEATHS

December 2006

2. The National Confidential Inquiry - Methods





The National Confidential Inquiry

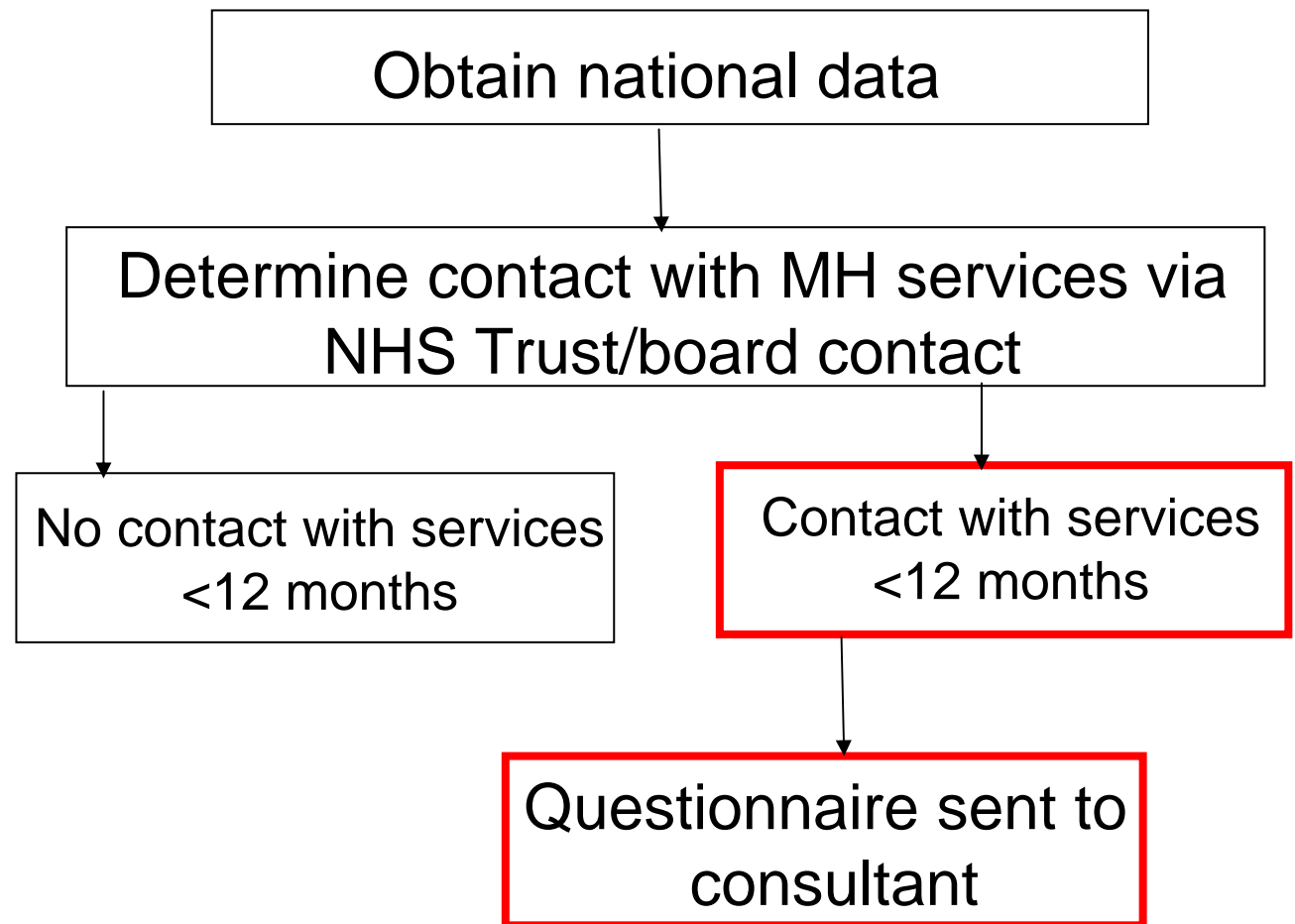
- A UK wide study
- Based in Manchester since 1996
- Collects national data on suicide and homicide in the general population and more detailed data on those under the care of mental health services at the time of death
- Recommends changes to practice and policy



The National Confidential Inquiry

- All 'suicide deaths' from National Statistics
- Include both suicide and undetermined verdicts

Methods





The National Confidential Inquiry

Questionnaire:

- 25 pages
- 11 sections
- Demographic details
- Clinical details
- Details of management

- Response rate 97%



The National Confidential Inquiry

Why is our response rate so high?

- Been around since 1996
- Procedures and mechanisms well honed (e.g. reminder system)
- System of trust contacts



The National Confidential Inquiry

Why is our response rate so high?

- Clinicians expect the questionnaires
- Clinicians see the value of the data
- No blame
- No individual analysis of cases or presentation of identifiable data
- Part of arrangements for clinical governance (England only)



The National Confidential Inquiry

Approvals

- Ethics
- Data protection and security
- Section 60 approval (allows processing of identifiable information without explicit consent)

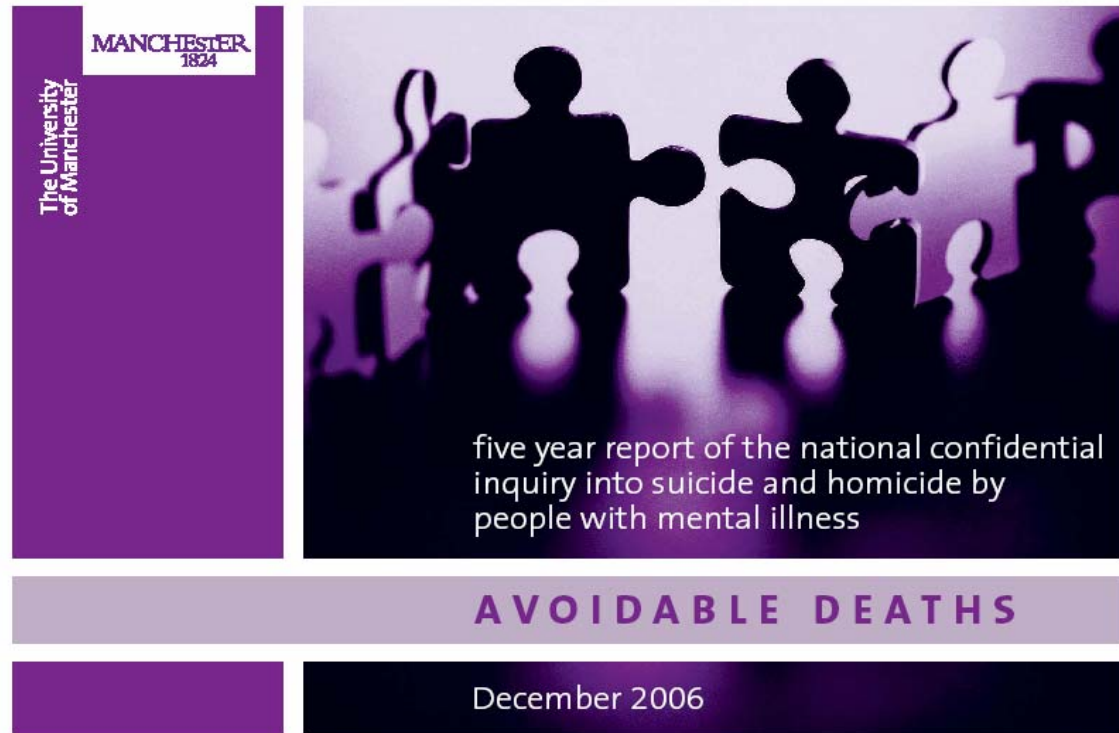


The National Confidential Inquiry

Databases

- Operating for 12 years
- 70,000 individuals who have died by suicide on the general population database.
- Detailed clinical data on over 17,000 individuals on the Inquiry database

3. What have we found and has it had any impact?



The cover of the report features a purple background with silhouettes of people holding hands. The text on the cover includes:

MANCHESTER
1824

The University of Manchester

five year report of the national confidential inquiry into suicide and homicide by people with mental illness

AVOIDABLE DEATHS

December 2006



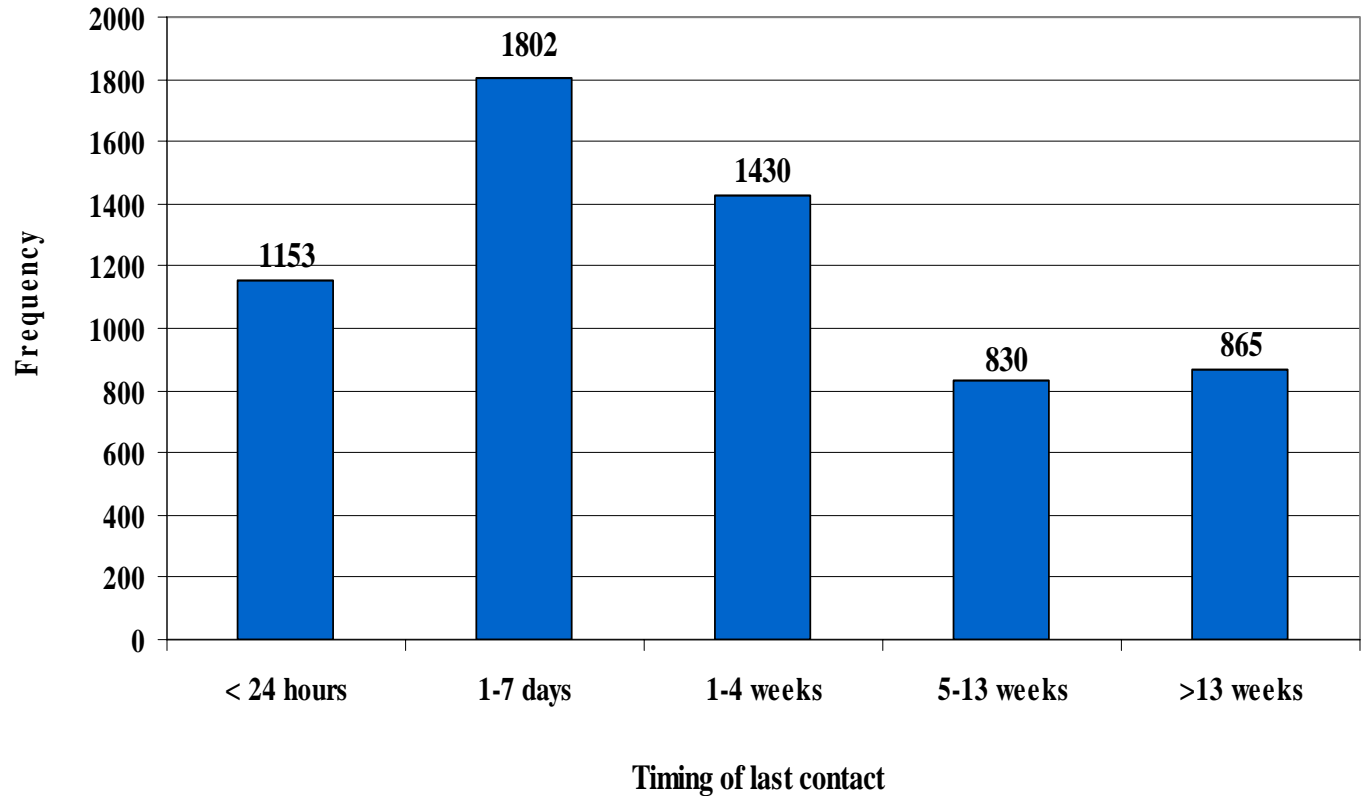
The National Confidential Inquiry

England and Wales 2001-2004

- General population suicide deaths: 23,477
- Rate: 10.2 per 100,000 per year
- Inquiry cases: 6,397 (27%)
- 1300 deaths per year

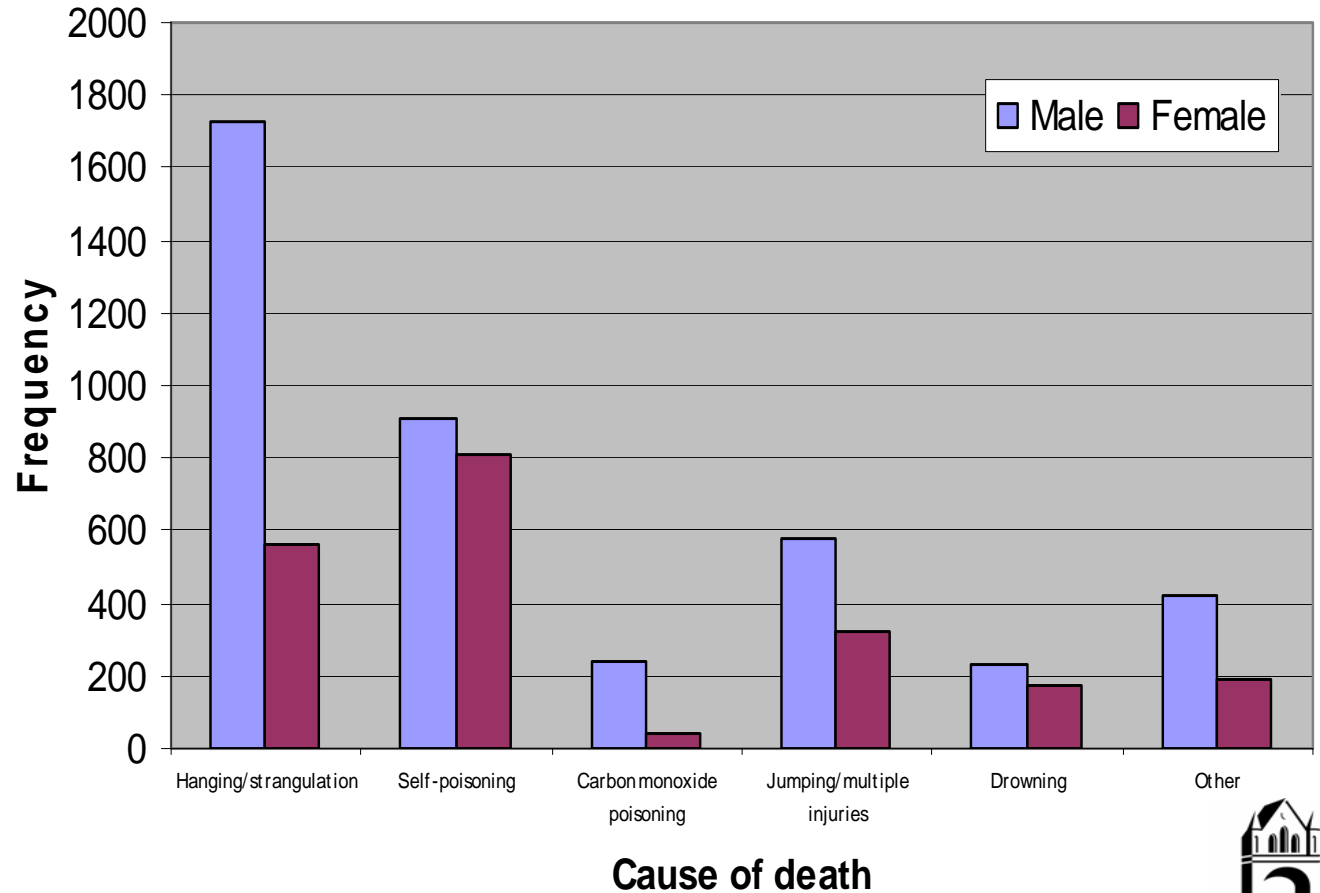


Timing of last contact





Method of suicide for Inquiry cases





Inquiry cases

- High levels of social isolation, self-harm and substance misuse
- 856 (14%) in-patients
- 1271 (20%) died within 3 months of discharge
- 1523 (29%) missed last contact with services
- 4984 (86%) immediate risk estimated as low or absent
- 1017 (19%) thought to be preventable



Inquiry cases

In-patients

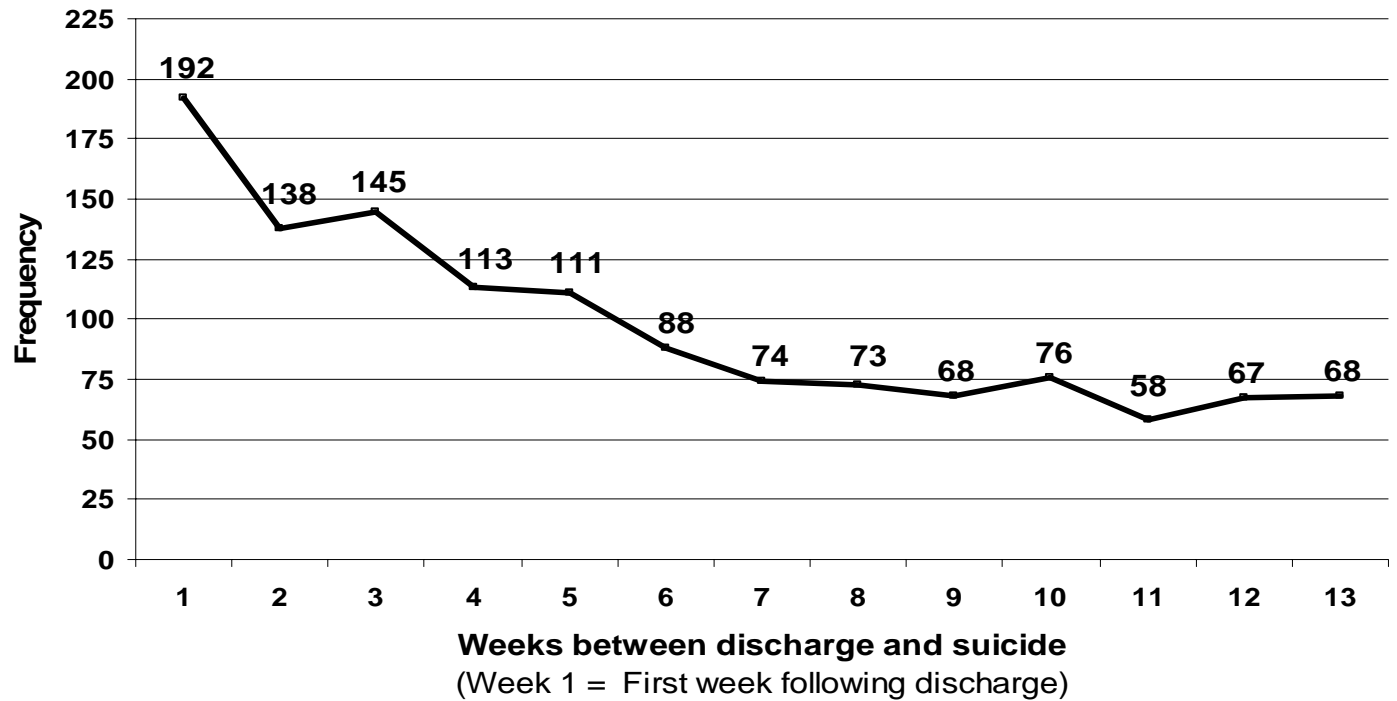
- 27% of deaths occurred after patients had left the ward without staff permission
- 22% of deaths occurred in patients under non-routine observation

Post discharge deaths

- Timing



Post-discharge deaths





What else might services do?

In-patients

- Reduce absconding
- Improve observation protocols
- Make wards safer

Community patients

- Manage the transition from ward to community



What else might services do?

	Number (188)	%
Ligature Type:		
Belt	82	45%
Sheet, towel, etc.	29	16%
Shoelaces	18	10%
Clothing (tie, scarf, tights, etc.)	19	10%
Item brought in specifically (e.g. rope)	4	2%
Other specified (e.g. cable cord, curtains)	29	16%
Ligature Point:		
Hook or Handle	42	23%
Door	32	18%
Window	23	13%
Bed head	18	10%
Other rail (e.g. toilet rail, wardrobe rail)	10	6%
Pipes	9	5%
Shower fixtures (e.g. shower head, tap)	8	4%
Bed curtain rail	6	3%
Other specified (e.g. light fixture, radiator)	33	18%



What else might services do?

In-patients

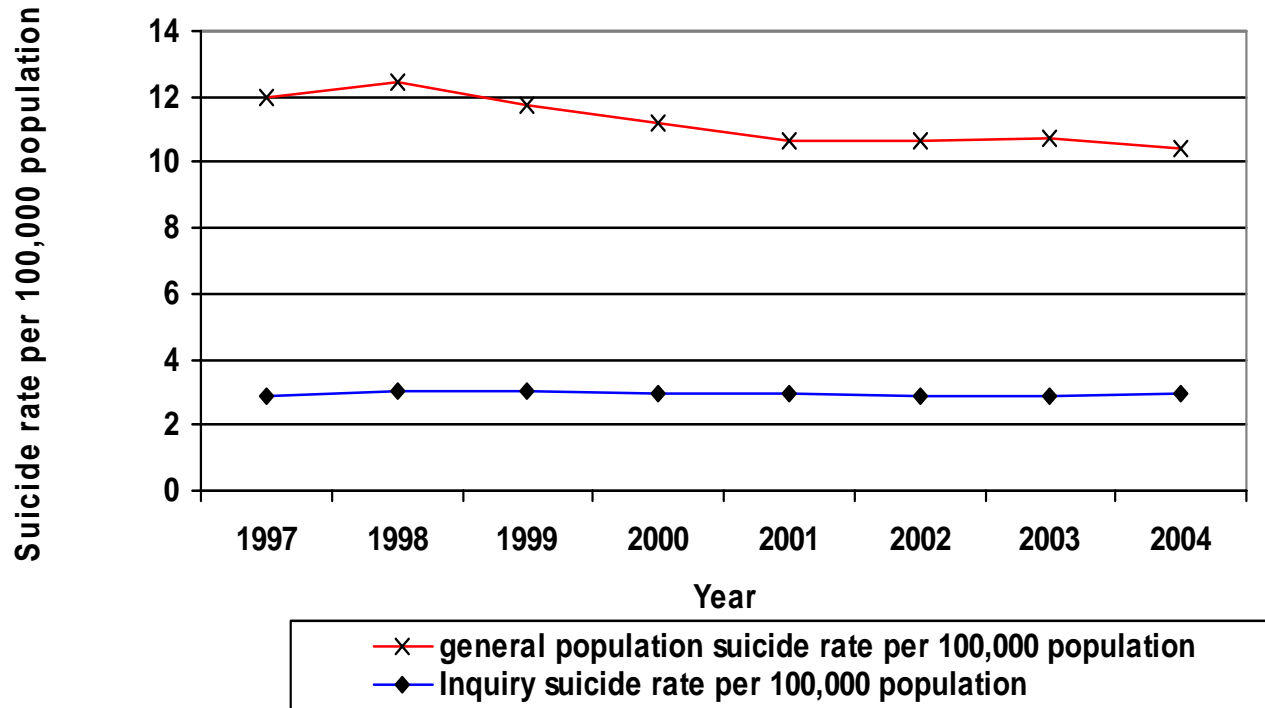
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Has the Inquiry had an impact?



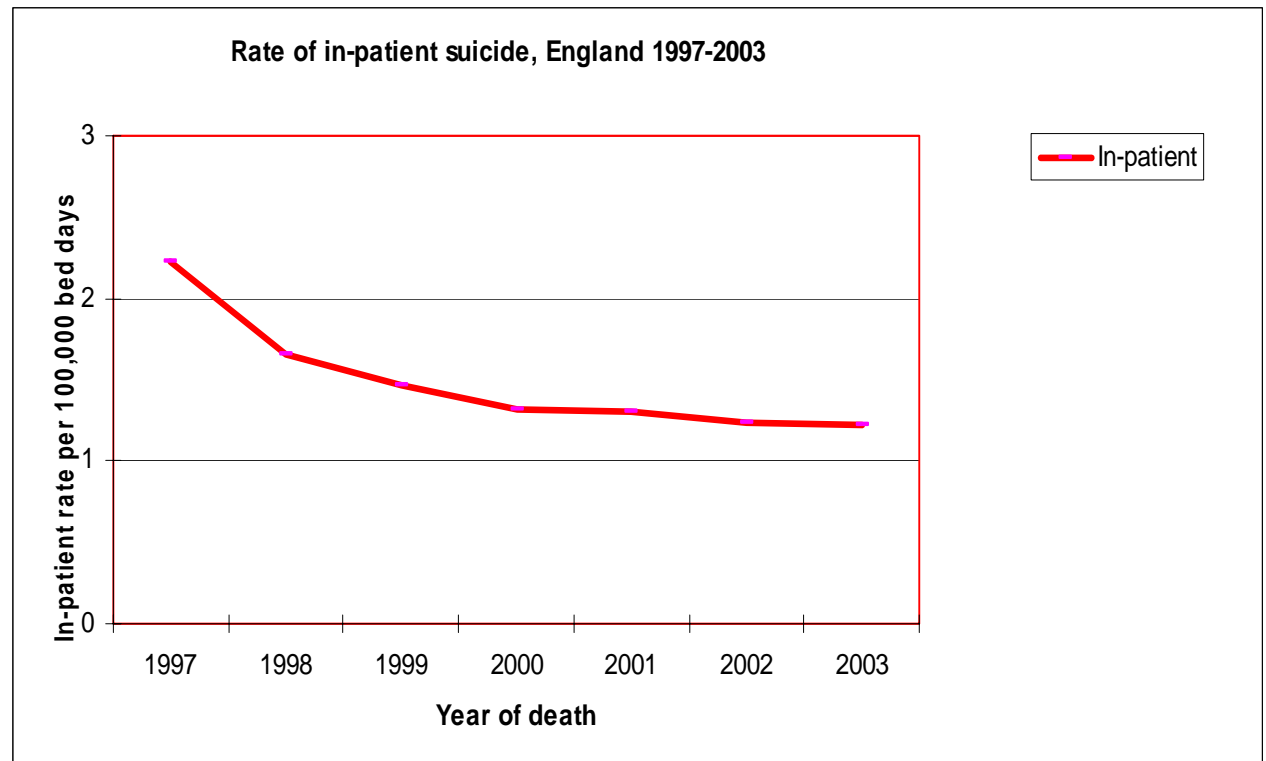


Has the Inquiry had an impact?

- In-patients

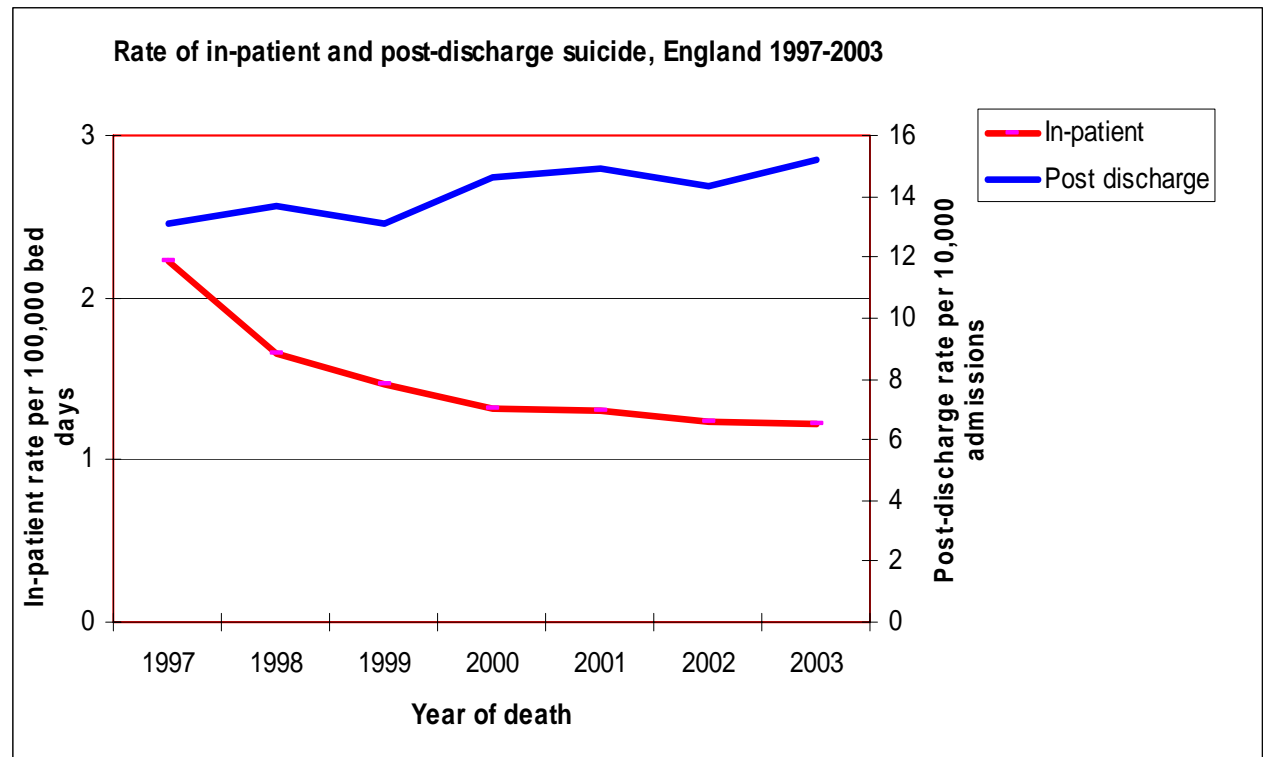


Has the Inquiry had an impact?





Has the Inquiry had an impact?





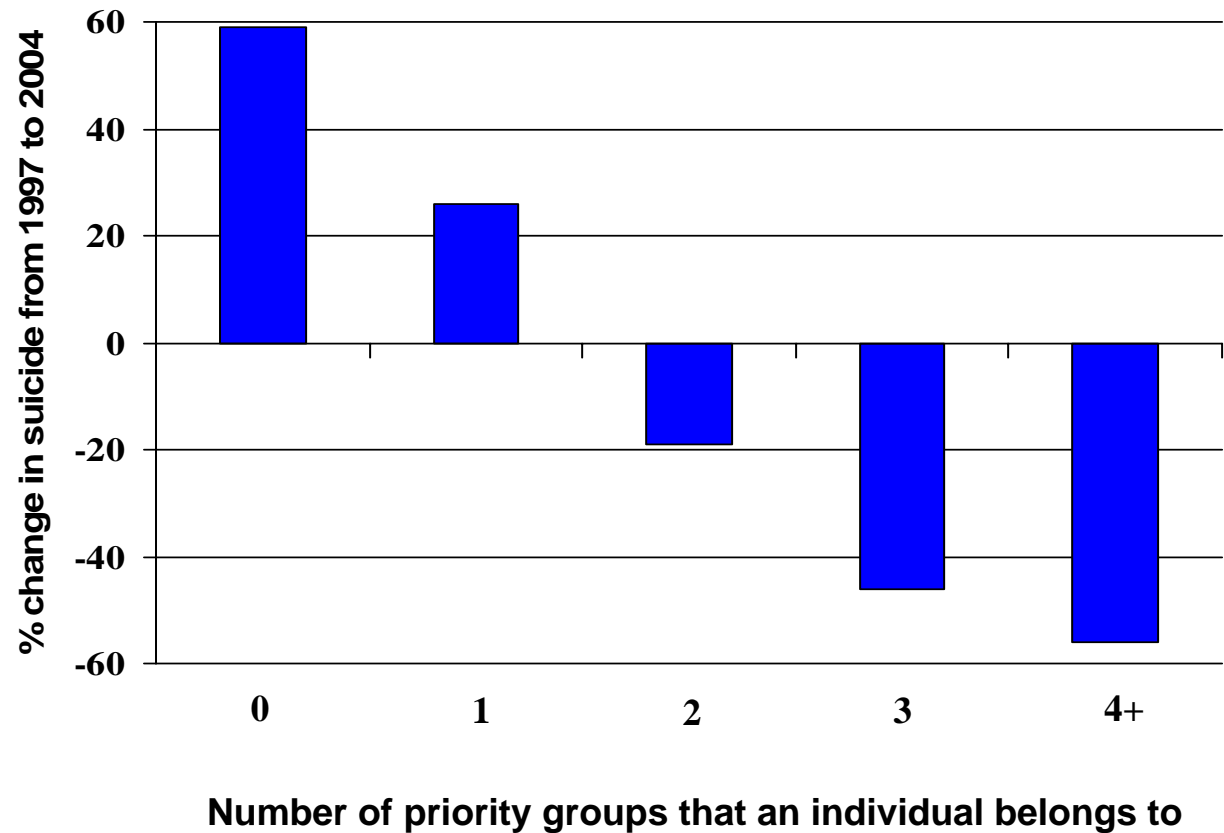
Has the Inquiry had an impact?

Priority groups

- Psychiatric in-patients
- Those who die within 3 months of discharge from in-patient care
- Those under CPA
- Those who are non-compliant at the time of death
- Those who missed their last appointment with services



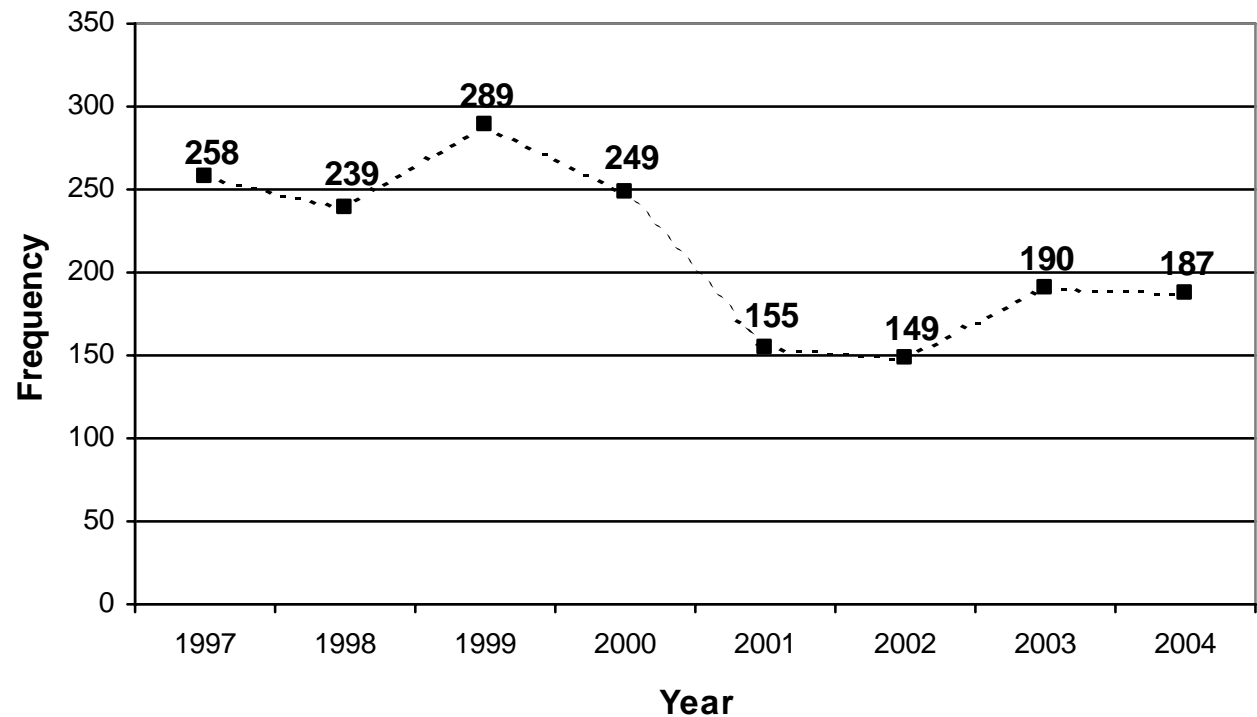
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Has the Inquiry had an impact?

Number of deaths following loss of treatment





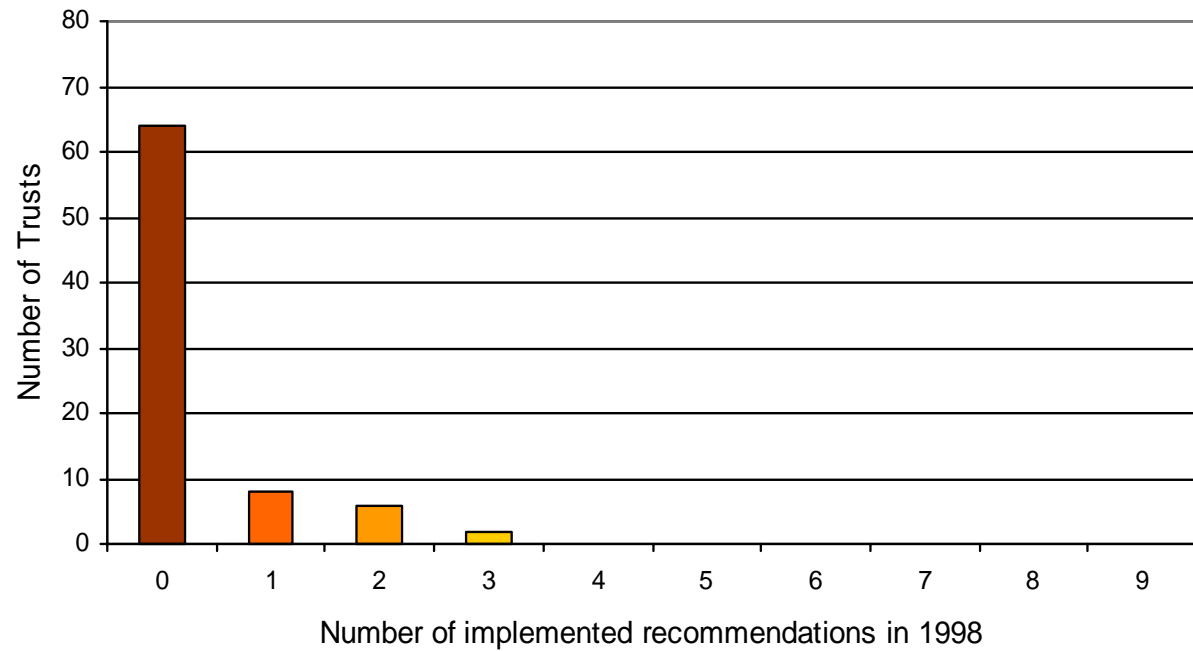
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Inquiry recommendations:

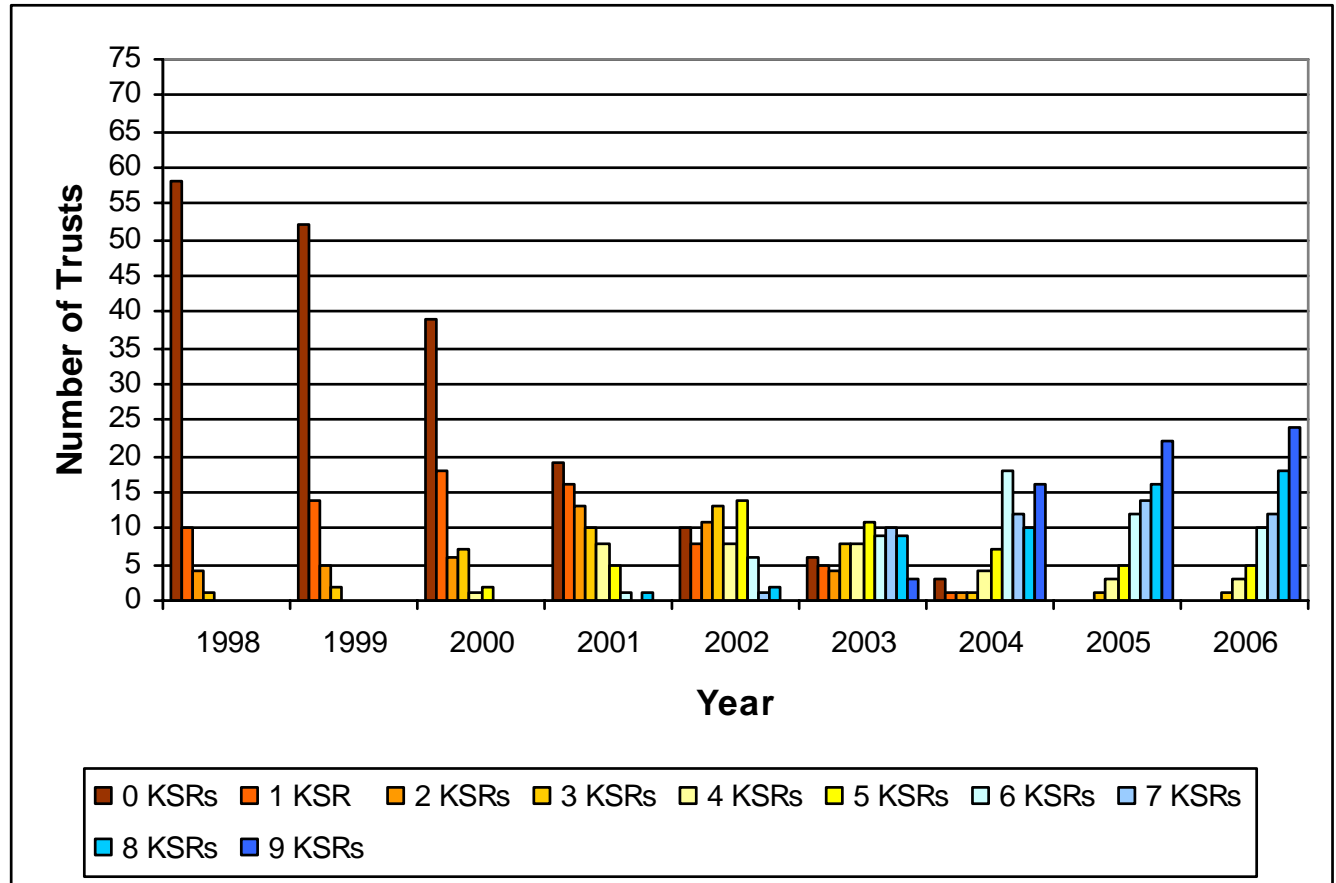
- Removal of ligature points
- Assertive community teams
- Risk management training
- Individual care plans
- Easy access in crisis
- Services for dual diagnosis patients
- Post-discharge follow up
- Information sharing
- Post-incident review



Has the Inquiry had an impact?



Has the Inquiry had an impact?





Policy impact of the NCI

- Definitive figures on suicide
- Contributed to the National Service Framework (NSF) Standard 7 (suicide prevention)
- Clinical recommendations in the NHS plan (e.g. assertive outreach teams, and improving access in crisis)
- Safety standards adopted by the NHS Clinical Negligence Scheme for Trusts (CNST)



Policy impact of the NCI

- Specific recommendations on patient safety, such as: the removal of ligature points on in-patient wards, early follow-up of post-discharge psychiatric patients.
- A safety checklist for mental health services incorporated into the National Suicide Prevention Strategy (NSPS) (“12 points to a Safer Service”)
- Data to individual NHS trusts to support clinical governance



4. What else can we do?



Controlled studies

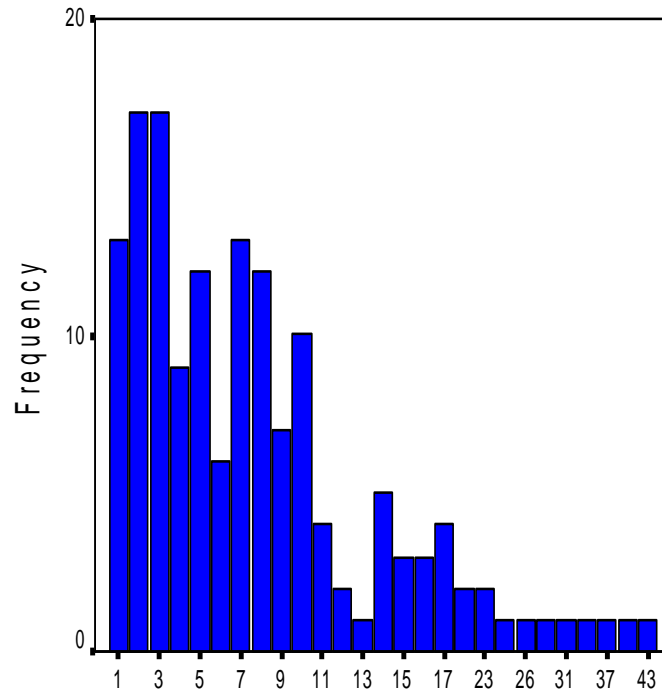
Psychiatric in-patients: a case control study

- 23% died within the first week of admission
- Risk factors included self-harm, life events, symptoms at last contact, more than one psychiatric diagnosis, being off the ward without staff agreement.
- Unemployment was protective



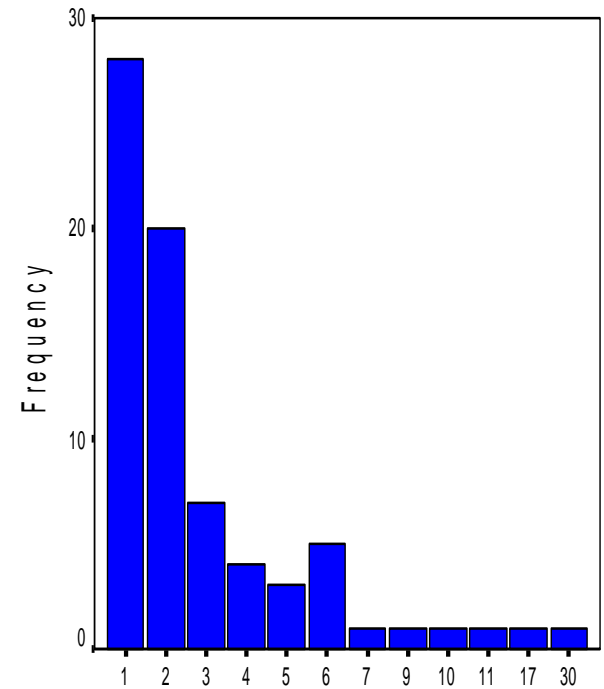
Contact with other services

GP Contacts



Contacts with the GP in the 12 months prior to death

Emergency Department Contacts



Contacts with ED in the 12 months prior to death



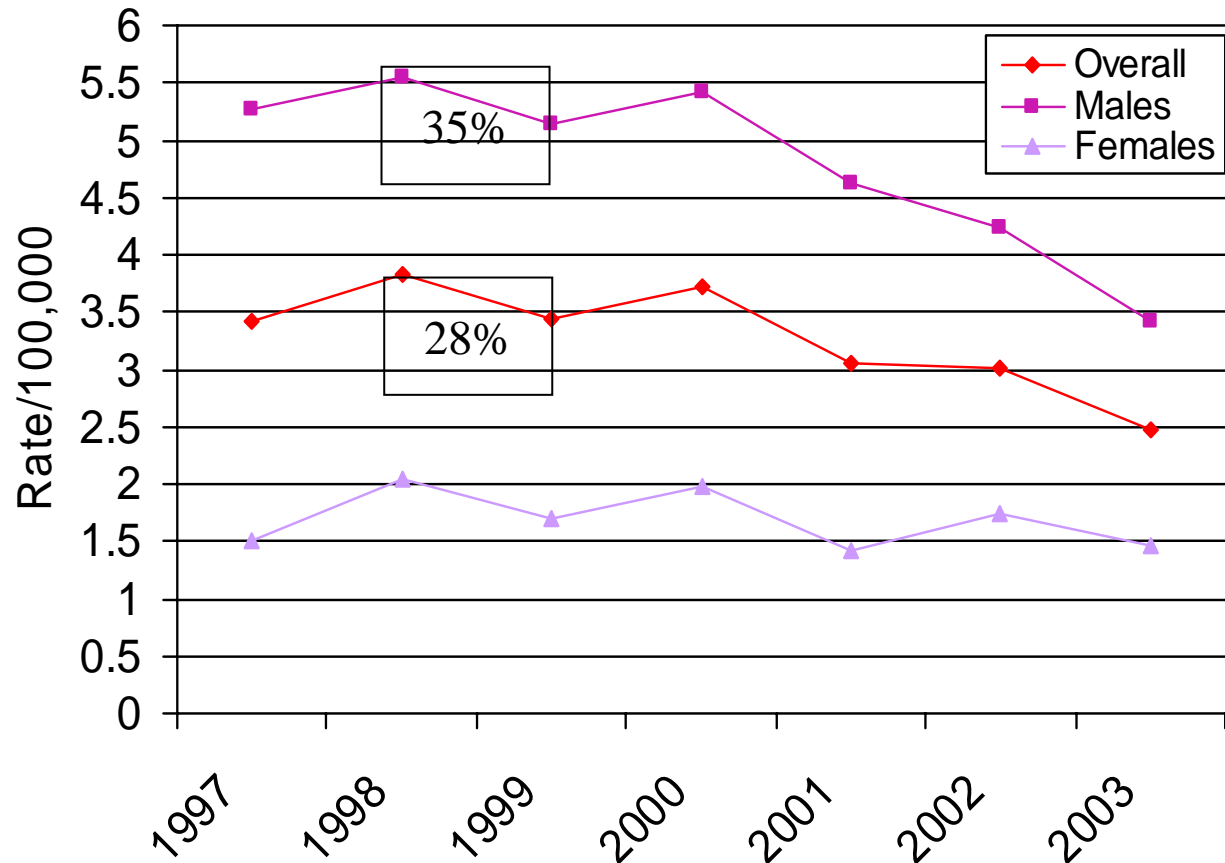
Contact with other services

“Always a feeling of desperation in (GP area), that whatever you try to get sorted always seems to be stonewalled by whoever you try to get through to. So knowing that he felt suicidal and trying to get him seen... and he knew that it was going to be a waste of time and we knew that it was going to be a waste of time, so together we were feeling a feeling of desperation”

Trends



Suicide rates among young people in the UK



Subgroups



Young people

- Suicide rates higher in males, higher in 15-19 year olds
- Low rate of contact
 - 14% (overall)
 - 12% (males)
 - 20% (females)

Ethnic minority groups

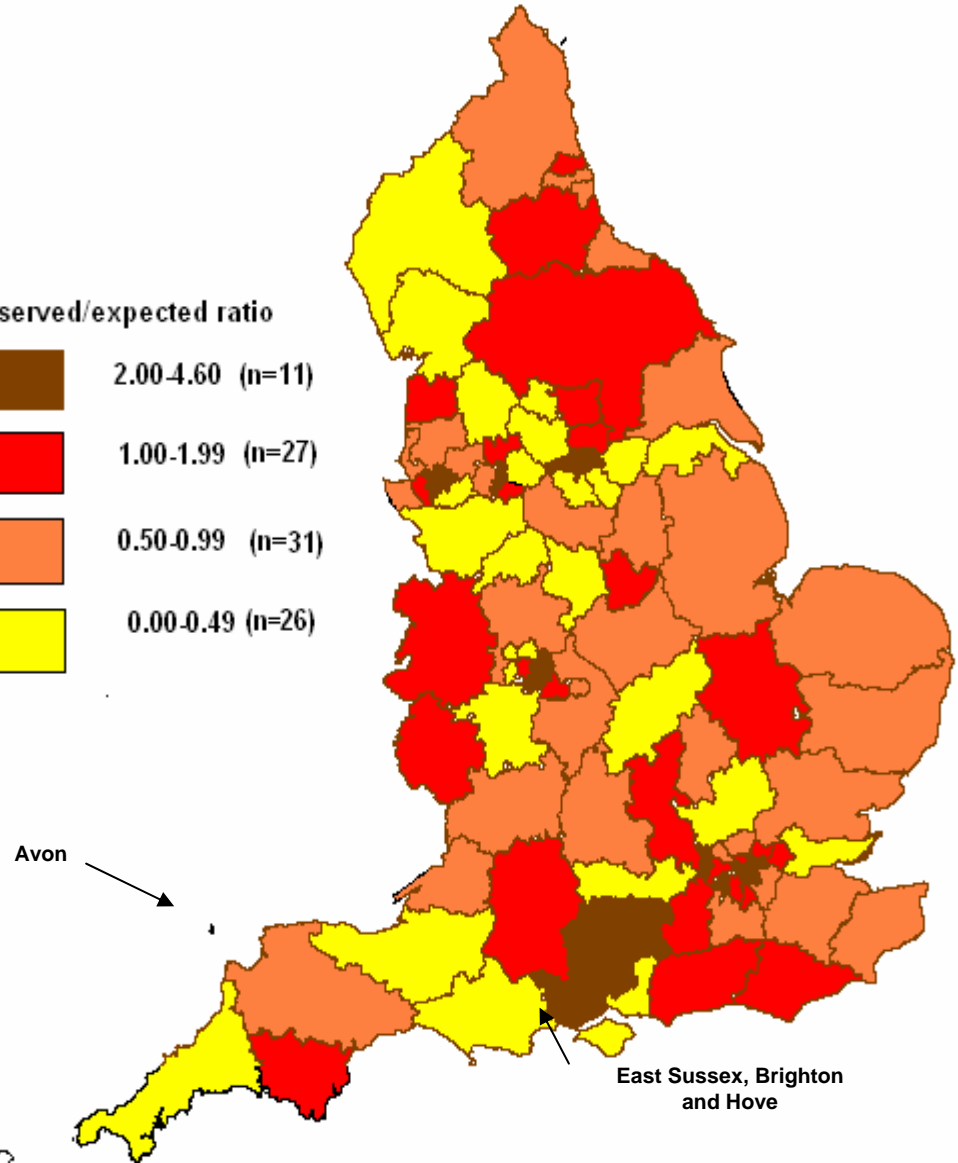
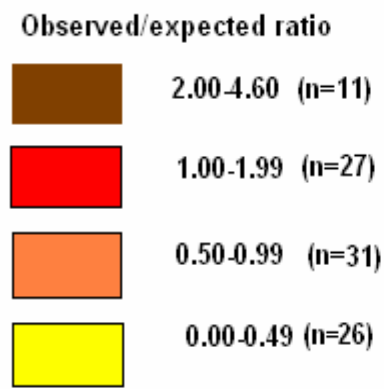
- Suicides characterised by violent methods, schizophrenia, recent non-compliance, previous violence, unemployment



Other outcomes

- Homicide
- Sudden Unexplained Deaths on psychiatric wards
- Overdose deaths and medical management

Suicide away from home-Mortality risk ratios



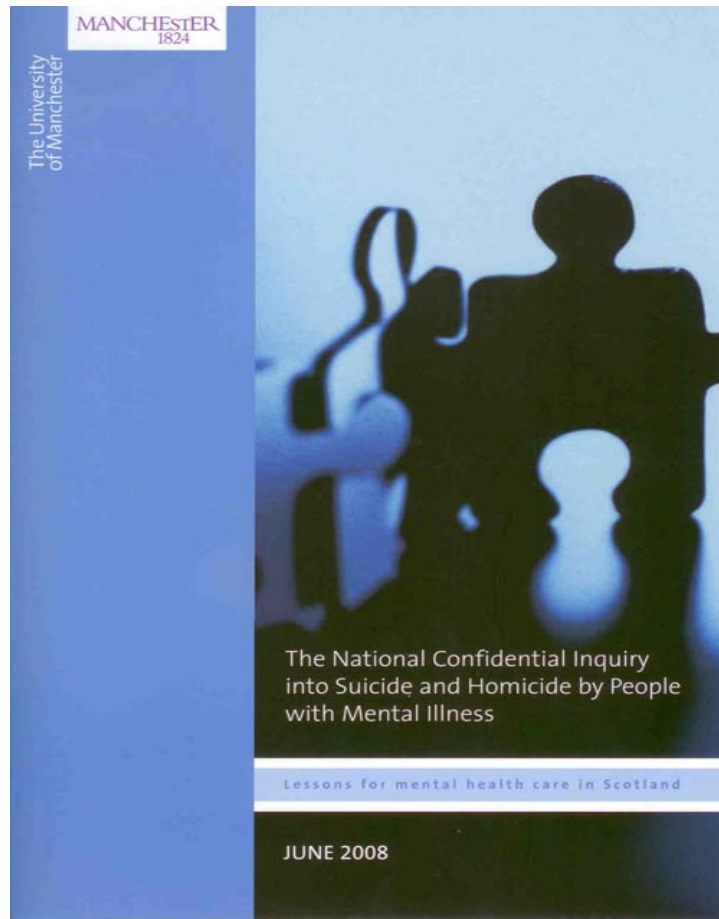
Suicide away from home



- 12% all suicide deaths are 'away from home'
- These individuals: younger, homeless, unemployed, BME, SCZ, inpatient status
- Methods: CO, drowning, jumping
- Location was associated with method of death – e.g. drowning in coastal areas, jumping among non-residents in hot spot areas



Cross-national comparisons

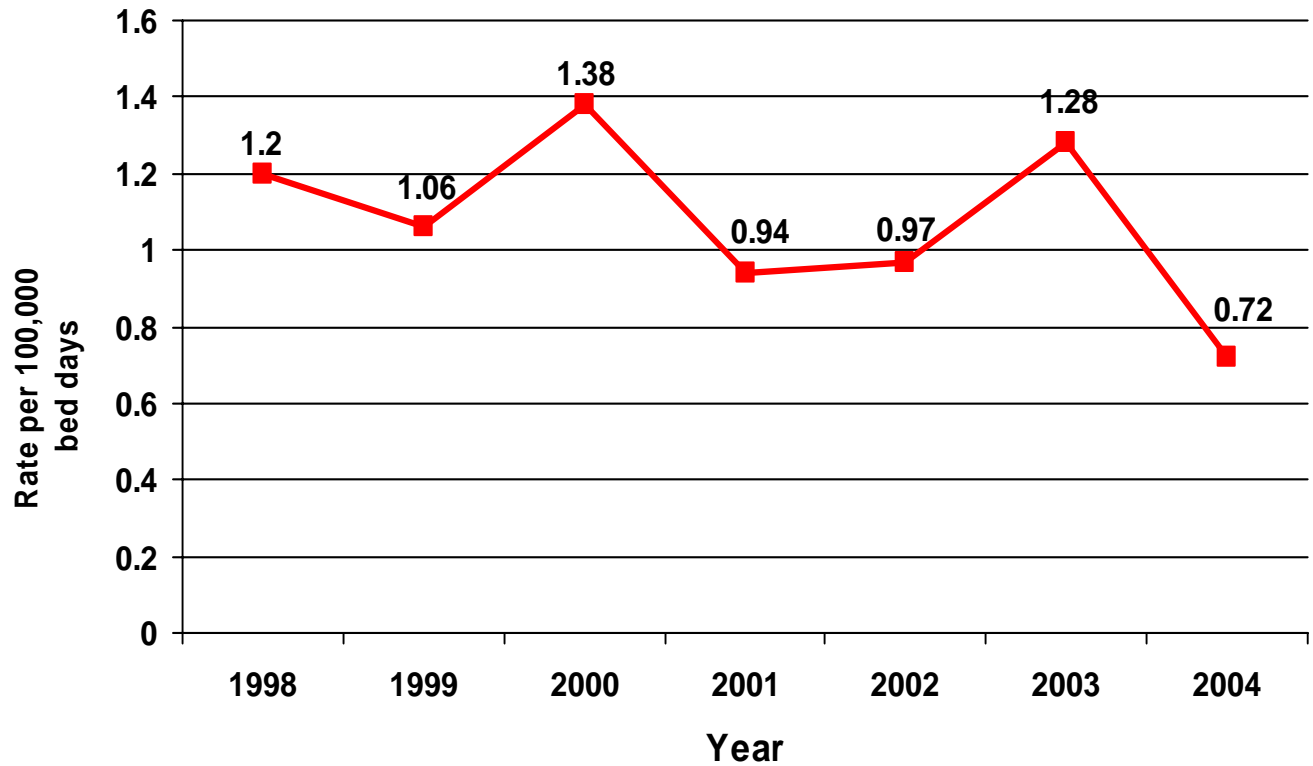


Scotland

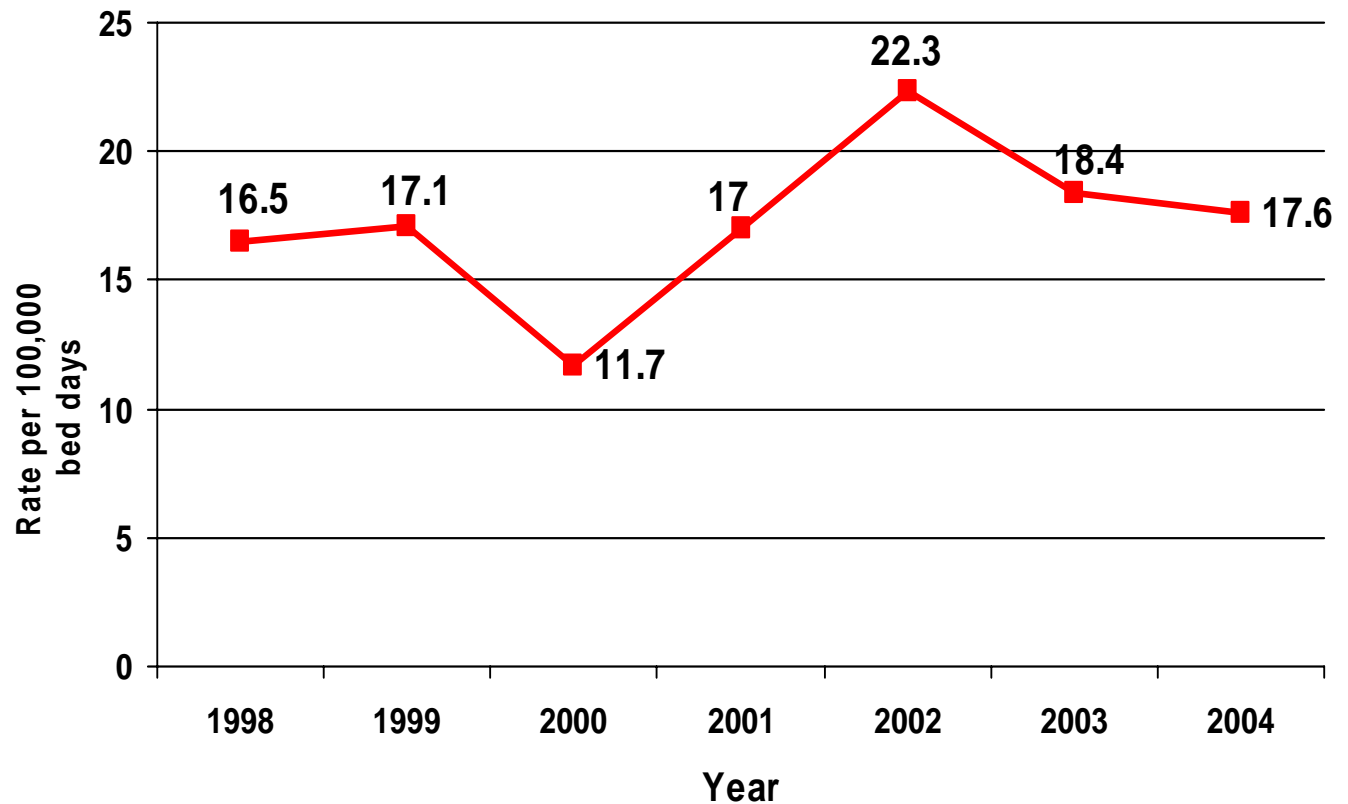
- 5,054 general population suicides
 - 18.7 per 100,000 population per year
- 1,373 patient deaths (Inquiry cases)
- 28% of all suicide deaths in Scotland
- 229 per year



Rate of in-patient suicide



Rate of post-discharge suicide

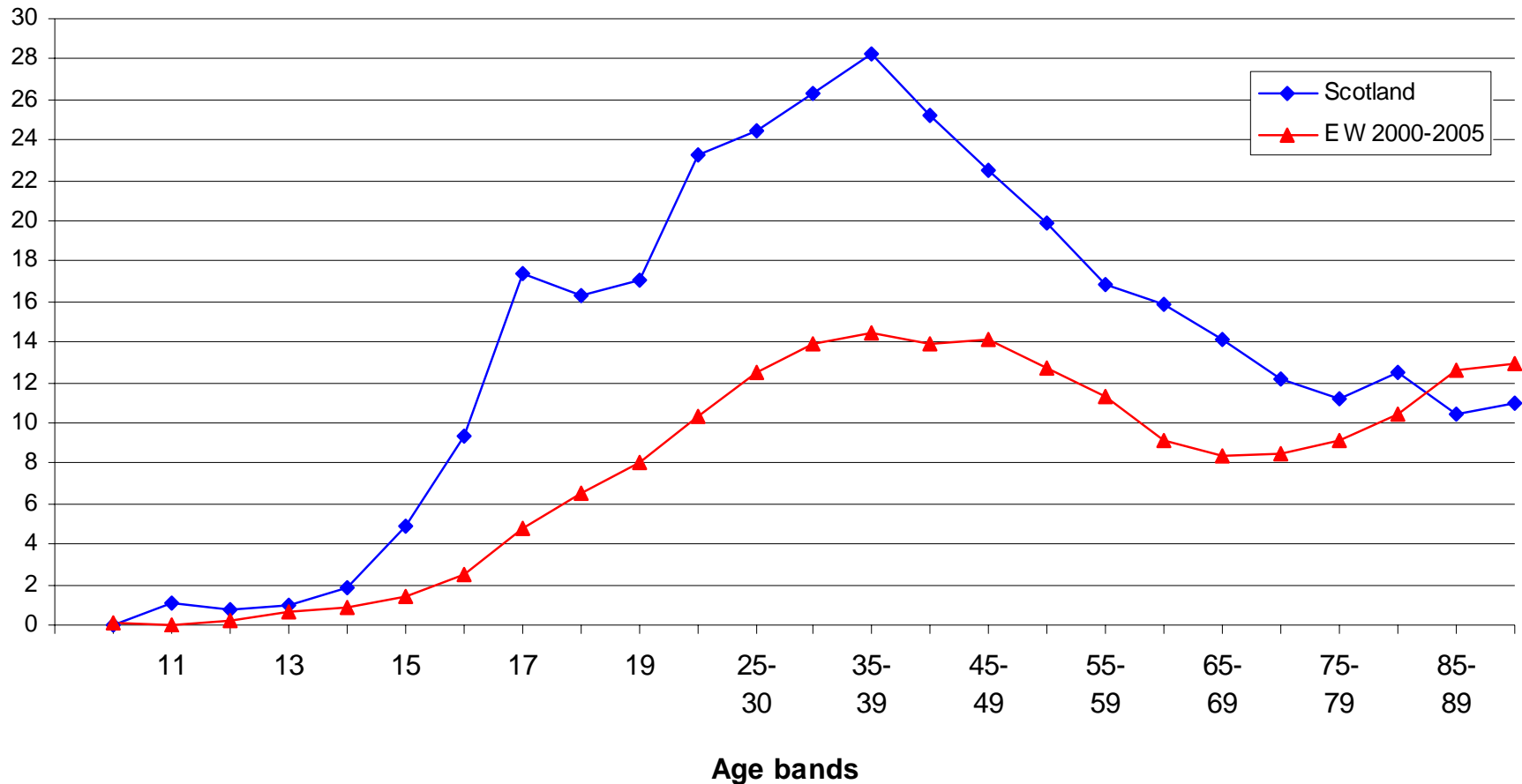


Comparisons with England and Wales



	Scotland		E & W
Suicide rate per 100,000 population	18.2	vs.	10.2
(Schizophrenia)	0.79	vs.	0.53
Rate of contact	28%	vs.	23%
Self-poisoning	34%	vs.	28%
Drowning	10%	vs.	6%
Low/no immediate risk	91%	vs.	86%
Preventability	11%	vs.	19%
In-patients	9%	vs.	14%

General population suicide profile for Scotland compared to England and Wales

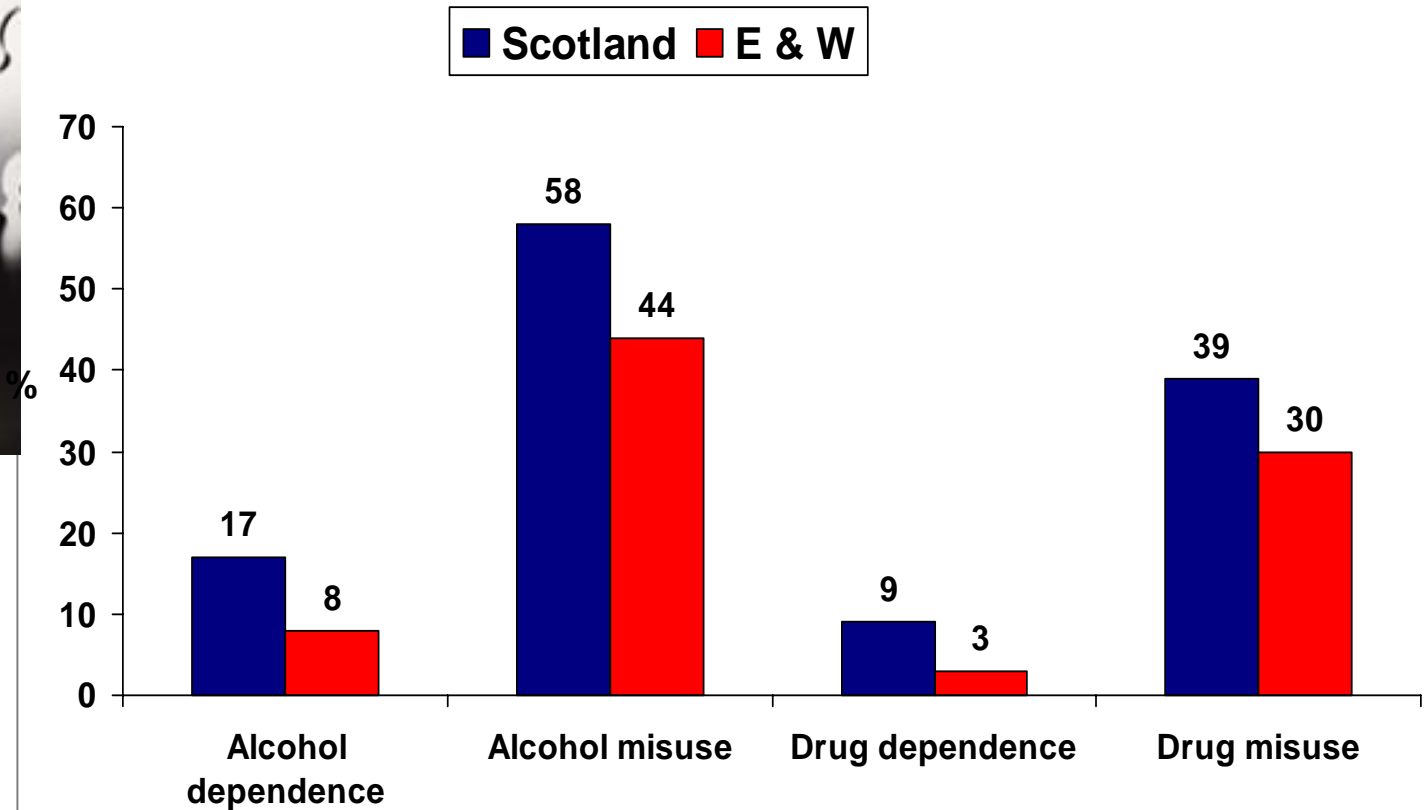


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Comparisons with England and Wales



Recommendations

Community services

- Better training and services for the management of drug and alcohol misuse – including dedicated services for dual diagnosis
- Specialist community mental health teams providing outreach for patients at risk of losing contact
- Early follow-up following hospital discharge



Recommendations

In-patient units

- More intensive supervision of patients recently admitted to hospital
- Removal of ligature points from in-patient wards
- Prevention of absconding from wards
- Careful assessment of risk during periods of leave leading up to discharge



Recommendations

General

- Positive clinical attitudes to the prevention of risk as part of a more understanding dialogue with the public
- Further study of the higher suicide rates in Scotland





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