Indicators of suicide among people with serious mental illness

OECD/Denmark

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Agenda

1) Background

2) R&D work on suicide as a quality indicator

3) Results of indicators
Excess mortality in mental health care

- Suicide and accidents account for approximately 40% of the excess mortality whilst about 60% are attributed to medical causes of premature deaths
- More than 90% of the suicide mortality is attributed to patients suffering from mental illnesses
- Evidence indicates that risk of suicide is increased during admission and recently after discharge from a psychiatric hospital

References:
4. Qin P, Nordentoft M. Suicide risk in relation to psychiatric hospitalization: evidence based on longitudinal registers. Arc Gen Psychiatry 2005
R&D work on suicide as a quality indicator

- Previously OECD HCQI work
- Review of literature and discussions
- Questionnaire responses
Questionnaire responses

- Canada
- Belgium
- Czech Republic
- England
- Finland
- Israel
- Latvia
- The Netherlands
- Singapore
- Slovakia
- France
- Sweden
- Spain
- Denmark
Data on suicide mortality for the total population of severe mental illness

**YES:**
- England, Finland, Latvia, Singapore, Slovakia and Sweden

**NO:**
- Canada, Belgium, Czech Republic, Israel, Netherlands, France, Spain and Denmark

**Comments:**
- England: However unable to disaggregate by diagnosis
- Finland: After data linkages
- Netherlands: Will explore possibilities
- France: Has a database providing nationwide population-based numbers of suicide deaths, but is not able to specify the location of the suicide death e.g. outpatient, community care or primary care
Suicide mortality data available for patients in contact with the following services

**Hospital inpatients**
- **YES**: Canada, Belgium, Czech Republic, England, Finland, Israel, Latvia, Singapore, Slovakia, Sweden, Spain, Denmark
- **NO**: Netherlands, France

**Hospital outpatients**
- **YES**: Canada, Finland, Latvia, Sweden, Denmark
- **NO**: Belgium, Czech Republic, England, Israel, Singapore, Slovakia, Netherlands, France, Spain

**Community care**
- **YES**: Canada, Belgium, Finland
- **NO**: Czech Republic, England, Israel, Latvia, Singapore, Slovakia, Denmark, Netherlands, France, Spain, Sweden

**Primary care/GP**
- **YES**: Canada, Finland, Latvia, Singapore
- **NO**: Belgium, Czech Republic, England, Israel, Slovakia, Denmark, Netherlands, France, Spain, Sweden
Data on suicide mortality data for hospital inpatients

a) During admission

YES: Canada, Belgium, Czech Republic, England, Finland, Israel, Latvia, Slovakia, Spain, Denmark

NO: Netherlands, Singapore, France, Sweden

COMMENTS: Canada: Assuming that this means during hospitalization England: Assuming that this includes patients with mental illness only

b) After discharge

YES: Canada, Czech Republic, England, Finland, Israel, Latvia, Singapore, Slovakia, Sweden, Denmark

NO: Belgium, Netherlands, France, Spain

COMMENTS: Canada: Only possible where technical work has been completed to enable data linkage England: Assuming that this includes patients with mental illness only Slovakia: Data would be available with difficulties, availability and reliability depend on methodology recommended by OECD Spain: Except for patients readmitted at the same hospital
# Suggested indicators

<table>
<thead>
<tr>
<th>Suicide indicator</th>
<th>Definition</th>
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</table>
| **1. Inpatient death from suicide among patients admitted at the hospital for a** | COVERAGE: Patients aged 15 and older (5 years age group)  
NUMERATOR: Number of patient discharges among denominator cases coded as suicide (ICD-10 codes: X60-X84) in the reference year  
DENOMINATOR: Number of patients discharged with a principal diagnosis or first two listed secondary diagnosis code of mental health and behavioural disorders (ICD-10 codes F10-F69 and F90-99) in the reference year |
| **mental disorder**                                                              |                                                                                                                                                                                                           |
| **2. Death from suicide among patients discharged with a mental disorder**       | COVERAGE: Patients aged 15 and older (5 years age group)  
NUMERATOR: Number of patients among denominator cases that committed suicide (ICD-10 codes: X60-X84) within 1 year after discharge  
DENOMINATOR: Number of patients discharged with a principal diagnosis or first two listed secondary diagnosis code of mental health and behavioural disorders (ICD-10 codes F10-F69 and F90-99) in the reference year |
| **3. Death from suicide within 30 days after discharge among patients discharged** | COVERAGE: Patients aged 15 and older (5 years age group)  
NUMERATOR: Number of patients among denominator cases that committed suicide (ICD-10 codes: X60-X84) within 30 days after discharge  
DENOMINATOR: Number of patients discharged with a principal diagnosis or first two listed secondary diagnosis code of mental health and behavioural disorders (ICD-10 codes F10-F69 and F90-99) in the reference year |
| **with a mental disorder**                                                       |                                                                                                                                                                                                           |
Results from OECD inpatient suicide indicator

Inpatient suicides among patients diagnosed with schizophrenia or bipolar disorder, age-sex standardised rate per 100 patients, 2000, 2006 and 2011 (or nearest year available)

Note: Data for Israel refers to 2009. Data for Belgium, New Zealand and Switzerland refer to 2010.
Results from OECD death after discharge suicide indicator

Deaths after discharge from suicide among patients diagnosed with schizophrenia or bipolar disorder, age(-sex) standardised rate per 100 patients, 2000, 2006 and 2011 (or nearest year available)

Note: Data for Israel refers to 2009. Data for Chile and New Zealand refer to 2010.
## Clarification of indicators

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