

Mental health care patients in high risk of suicide

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Introduction

- Predicting suicide
- Identifying high-risk groups
- Risk factors in Mental Health



Aim

Determining suicide risk and indicators among mental health care patients and comparing these with the general population.



Methods

- Period 2000 - 2009
- Database mental health population of 3rd city in the Netherlands
 - Suicides
 - Registrations in “person” years
- Database The Hague
 - Suicides
 - Citizens of The Hague
- Demographic data
 - Age, gender, ethnicity en neighbourhood



Results

	Suicides	Total population
The Hague	482	4.654.575
Mental health	167	193.275



Results

% in mental health care

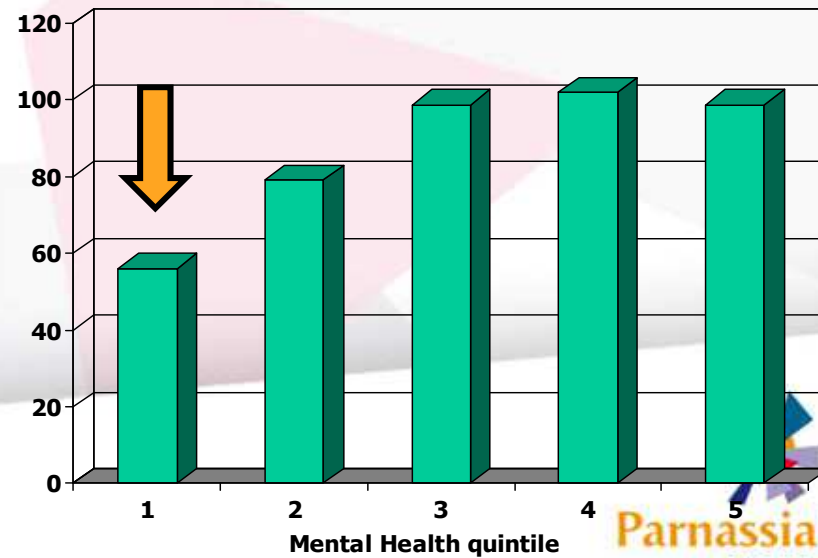
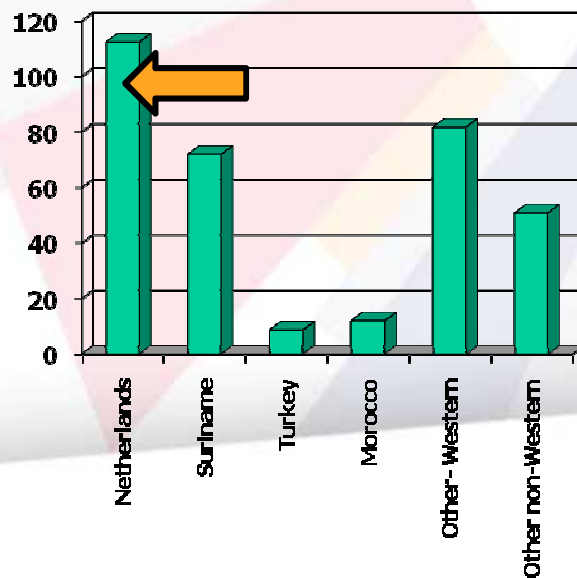
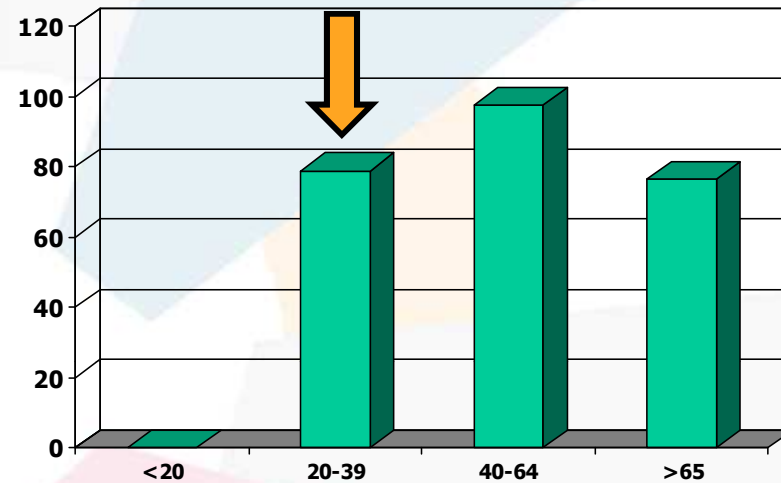
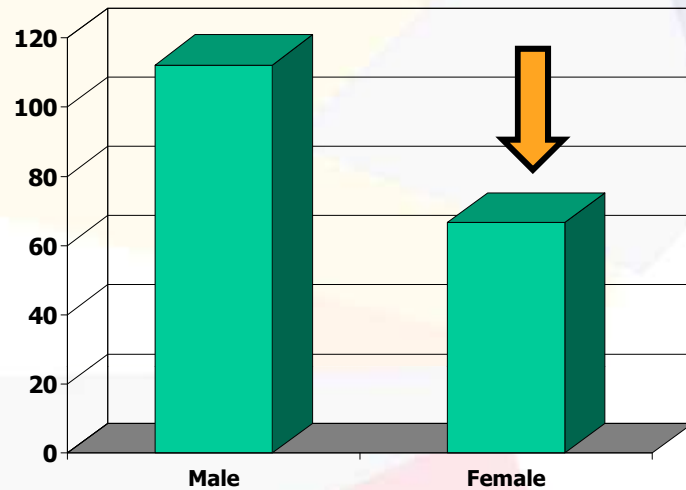
Risk factor	%
Gender	
• male	30
• female	43
Immigration	
• Netherlands	37
• Suriname	23
• Turkey	14
• Morocco	12
• other non-Western	18
• other Western	26

Risk factor	%
Age	
• 20-39 years	42
• 40-64 years	35
• >65 years	27
Neighbourhood	
• quintile 1	36
• quintile 2	31
• quintile 3	36
• quintile 4	37
• quintile 5	36



Results

Incidence Mental Health



Results

The Hague

Risk factor	IRR	IRR#
Gender		
• male	1.89*	1.96*
Immigration		
• Suriname	0.91	1.03
• Turkey	0.18*	0.24*
• Morocco	0.27*	0.37*
• Other Non-Western	0.36*	0.35*
• Other Western	0.71*	0.85

Risk factor	IRR	IRR#
Age		
• 40-64 years	1.60*	1.55*
• >65 years	1.36*	1.39*
Neighbourhood		
• quintile 2	1.66*	1.34
• quintile 3	1.48*	1.13
• quintile 4	1.39*	1.02
• quintile 5	1.13	0.85

IRR corrected for confounding

* p<0.05

Results Mental health care

Risk factor	IRR	IRR#
Gender		
• male	1.64*	1.64*
Immigration		
• Suriname	0.68	0.71
• Turkey	0.08*	0.10*
• Morocco	0.11*	0.12*
• Other Non-Western	0.48*	0.48*
• Other Western	0.77	0.77

Risk factor	IRR	IRR#
Age		
• 40-64 years	1.24	1.10
• >65 years	0.97	0.80
Neighbourhood		
• quintile 2	1.41	1.20
• quintile 3	1.76*	1.38
• quintile 4	1.82*	1.41
• quintile 5	1.76*	1.35

IRR correction for confounding

* p<0.05

Results

	Incidence	IRR	IRR (standardised)
The Hague	13,2/100.000	1.0	1.0
Mental health	86,4/100.000	6.5	4.5



Discussion

- Missing data?
- Differentiation mental health population
 - Diagnosis
 - Care programme (out vs. inpatients)
- Prevention → identification

