

Emergency Psychiatric Service & Determining Factors for Decision Making During Risk Taxation of Suicidal Behavior



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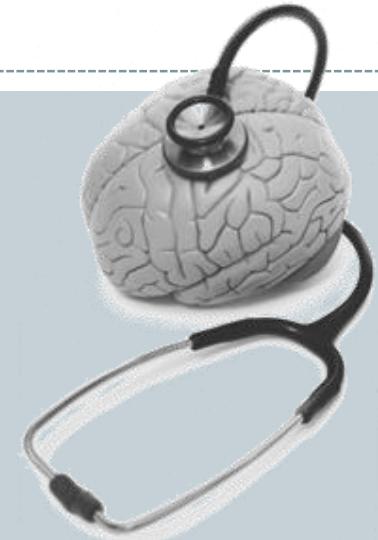
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WORLD CONGRESS



WWW.SUICIDALITEIT.NL



Parnassia Groep



contents



- Description the Netherlands and The Hague
- Suicidal behaviour in the Netherlands
- Emergency psychiatry The Hague
- Database the Hague
- Questions

- Characteristics suicidal behaviour mental health in The Hague
 - Gender/age
 - Primary diagnosis/ method of attempt
 - Admission
 - Determining factors
- Limitations
- Conclusions

Netherlands



- 16.78 million inhabitants
- Within top 15 richest countries (↓)
- Top 30 safest places
- 7th place happiness population (↓) (WHR)
- High density psychiatrists (1:5600)
- Suicide rate 1:11.03 overall (2013)
 - Since 5 years >30% increase



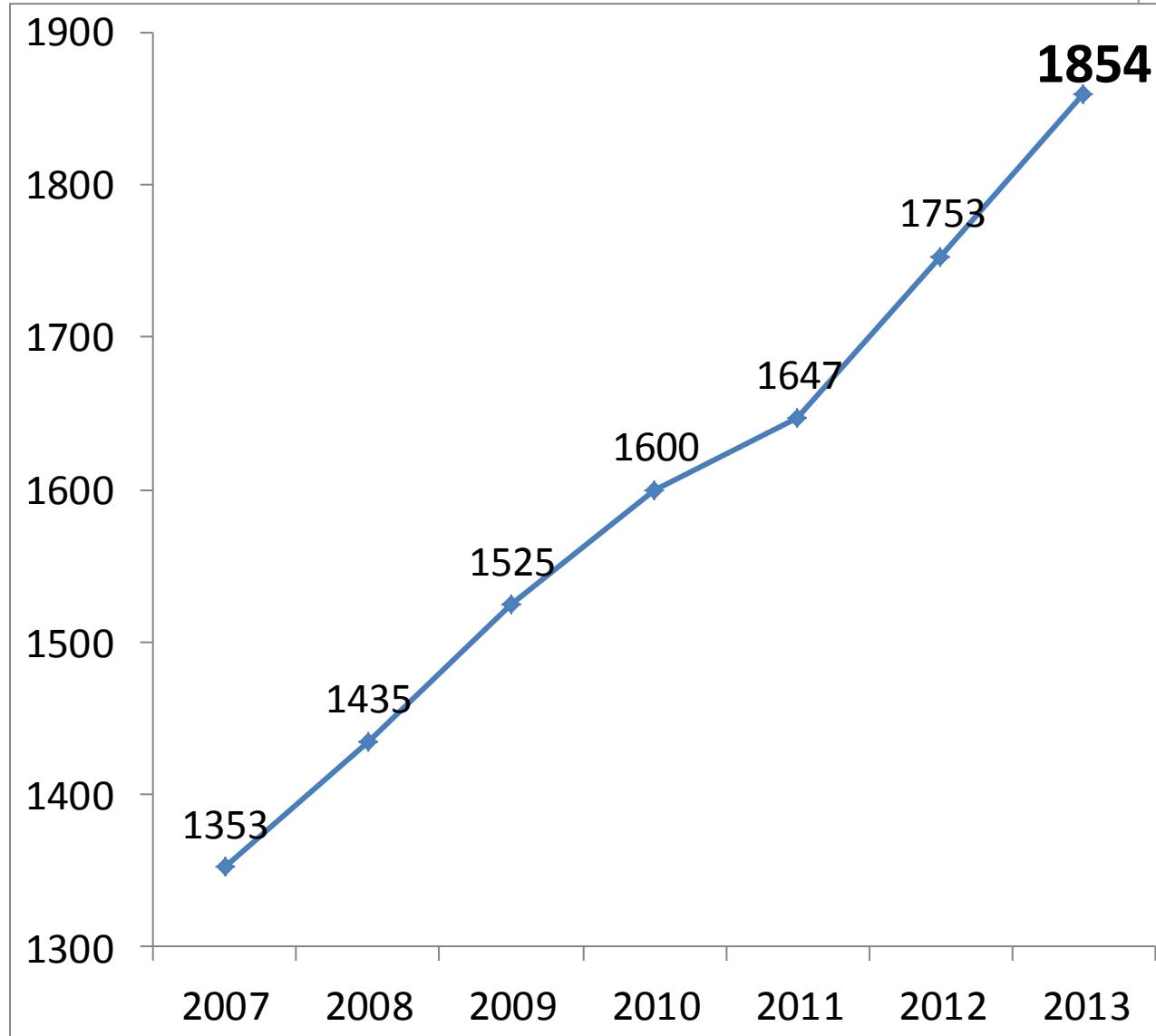
Suicide rate in the Netherlands

between 2007-2013
(male: female = 2.2:1)

2013 : 16 779 575
citizens

2007 : peak economy,
lowest suicide rate since
1970

<http://bit.ly/1JQN4W7>



Facts & figures2012

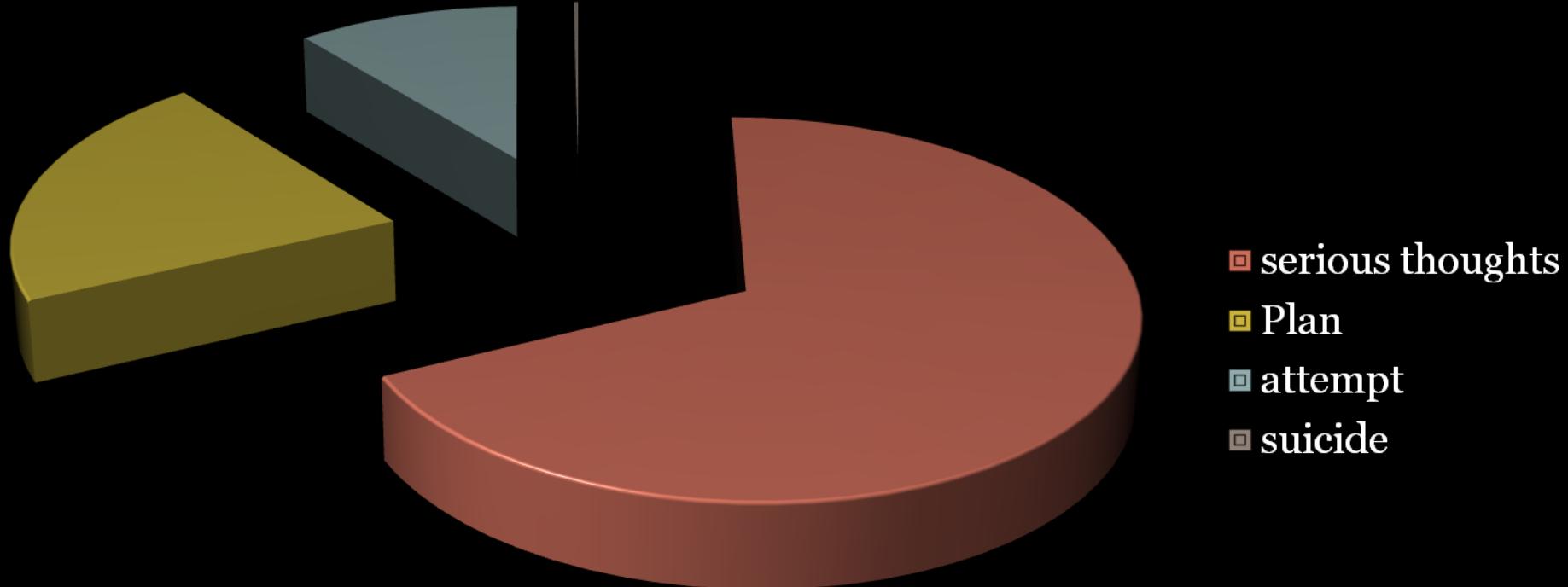
Not natural causes deaths

	Total	percentage
Total	6333	100%
Falling	2795	41.4%
Suicide	1753	27.7%
traffic	684	10.9%
Suffocation	119	2.0%
Murder	143	2.4%
Drowning	70	1.2%
poisining	128	2.1%
Work related	59	1.0%
Burning	27	0.5%
By an object	21	0.5%
Private situation	208	3.6%
Unknown	534	8.4%

Methods of suicide (2012)

Methods of suicide	Number all	%
Total	1753	100%
Hanging	709	40.4%
Medication/alcohol	319	18.2%
Jumping in front of a train/subway	188	10.7%
Jumping from height	135	7.7%
Drowning	125	7.1%
Firearm	97	5.5%
Bag (helium?)	98	5.6%
Rest	82	4.7%

Prevalence suicidal behaviour



Suicidal behaviour in society



- Suicide..... too late for mental health
- 40% suicides treatment in mental health....
- **Mental health**
- Experts diagnosis & treatment of serious suicidal behaviour?

Importance emergency psychiatry



- Outreaching 24 hours service
- Recognised suicidal behaviour > mental health
- Selection of serious suicidal behaviour?
 - While et al. 2012
 - Provision 24h hours service: biggest fall in suicide rates

The Hague Emergency Psychiatry



- Around 5.500 consultations each year
- 4 teams a day: couple MD and nurse





The Hague



- Third city in the netherlands
- International Criminal Court
- Catchment area 700.000 citizins
- Seat of government, not capital city!
- No University!
- **One mental health institute**



The Hague



- Four of 10 poorest city areas of the country
- 49% immigrants
- One mental health institute



Questions



- Unique situation:
 - High estimated risk by any counselor
 - Consultation by emergency psychiatry!
 - One catchment area

- Characteristics of suicidal patients?
- Gender characteristics?
- Symptoms and suicidal behaviour?
- Predictors for admission (voluntary/unvoluntary)?



Methods



- Emergency psychiatry The Hague
- Between 2009 (july)-2014 (september): 21431 consultations
- **14705 face tot face consultations**
- **Registration MD and nurse**
- Every (work)day registration database by administrator
- Detailed information in database
 - General characteristics
 - Suicidal behaviour = clinical judgement MD and nurse
 - Diagnosis (primary for Health insurance)
 - Decision of treatment and follow-up
 - Ethnicity
 - etc

Analysis



- SPSS 20.0
- Descriptive
- Chi-square
- Multiple regression analysis
- Bootstrap regression analysis

Suicidal behaviour

The Hague Emergency Psychiatry



Parnassia Groep

- Between 2009-2014: **14.705 face tot face consultations**
- Consultation: 4515 suicidal patients (30.7%)
- Attempts **1549** patients (34.3% suicidal patients, 10.5 % all)
- Method described for 1367 patients (88.3%)

Primary diagnosis (n = 14705)	All	Suicidal	Suicidal -
Depressive disorder ***	13.9%	28.5%	6.6%
Other affective disorder *	7.4%	5.4%	8.4%
Adjustment disorder***	2.1%	3.6%	1.4%
neurotic /anxiety disorder	7.2%	9.4%	6.2%
Personality disorder ***	6.7%	11.0%	4.7%
Psychotic disorder***	25.6%	10.4%	32.8%
Organic disorder***	4.3%	0.95%	5.9%
Referred diagnosis	6.8%	4.7%	7.7%
alcohol/substance	19.7%	19.7%	19.7%
(primary alcohol)	14.6%	16.0%	14.0%
(primary substance)	5.1%	3.8%	5.7%
Rest	6.3%	6.4%	6.3%

Diagnosis during emergency consultation

clarification

Depressive disorder

- 66.2% also suicidal
- 21.2% after attempt

Primary psychotic

- 13.1% also suicidal
- 3.2% after attempt

After suicidal behaviour continuity of treatment in mental health

92%

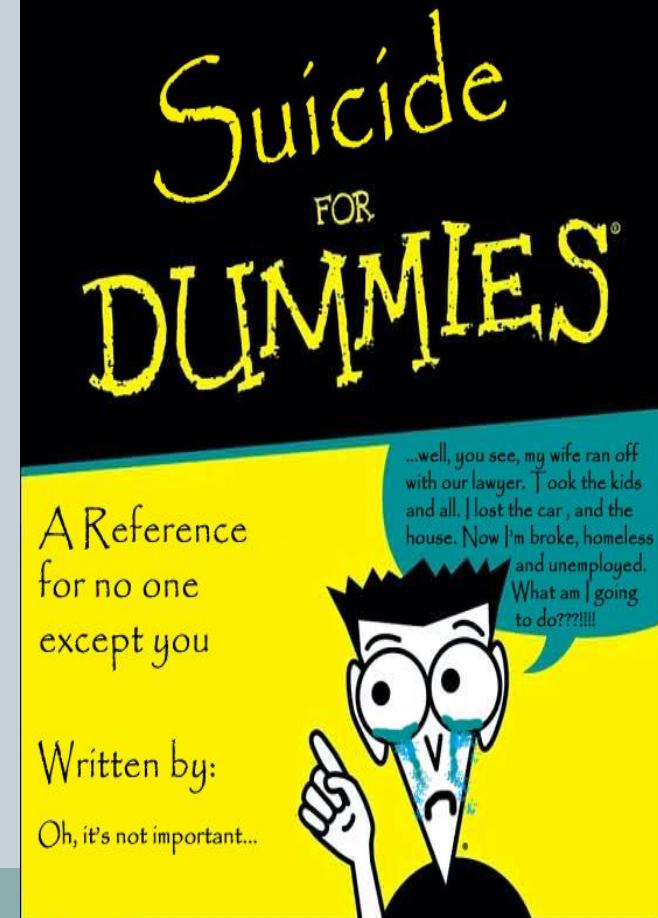
NOT 100%.....



Attempts and methods



Face it pal - life simply ain't worth living and you know it. This guide will help you to end the misery permanently. Ha - as if someone is going to miss you anyway, you worthless imbecil!



The Hague Emergency Psychiatry

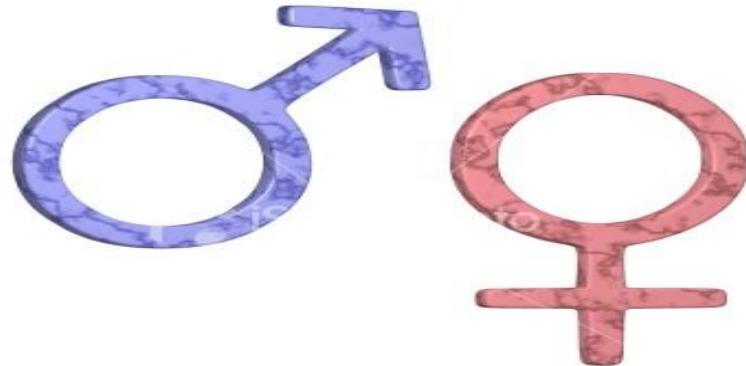
n= 1549



Methods (rounded percentages)

Medication	774	50%
Cutting	162	12%
Several (gun, car, forced accident etc)	132	9%
Hanging	118	8%
Rail vehicle	54	4%
jumping	47	3%
Poison	42	4%
Drowning	20	2%
unknown/write error	182	12%

Gender and suicidal behaviour



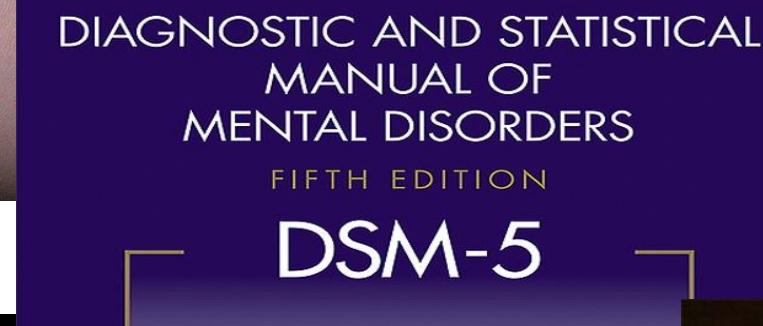
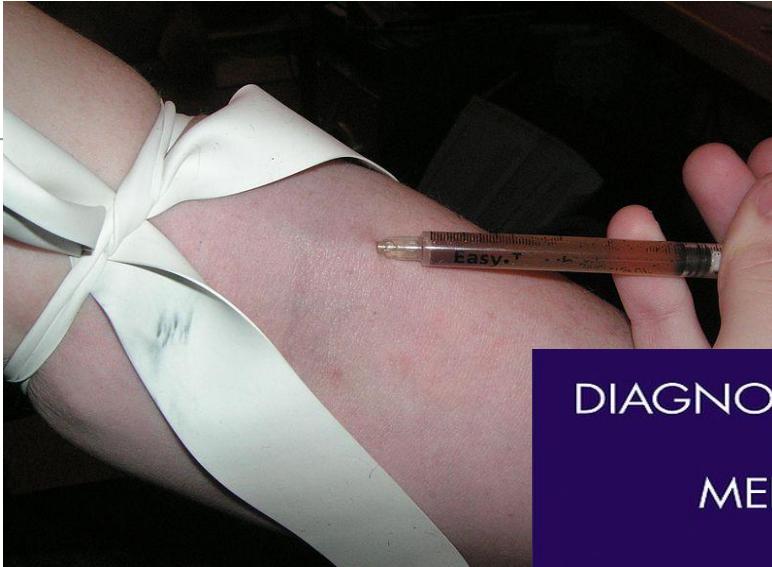
	Suicidal behaviour	p	Suicidal attempts	P
male	23.0%		6.7%	
female	27.6%	<.0001	9.8%	<.0001

Age and suicidal behaviour



	Suicidal behaviour	p	Suicidal attempts	P
yes	41.7 years		39.5 years	
no	44.7 years	<.0001	44.4 years	<.0001

Symptoms and suicidal behaviour



<u>Primary Diagnosis</u>	<i>Suicidal</i>	<i>p</i>	<i>Suicide attempt</i>	<i>p</i>
Mood disorder	↑	<.001	↑	<.001
Axis II	↑	<.001	↑	<.001
Anxious disorder	↑	<.001	=	ns
Adjustment disorder	=	ns	↑	<.001
Deferred	↓	<.001	=	ns
Drugs/alcohol	=	ns	↓	<.001
Organic	↓	<.001	↓	<.001
Psychotic disord.	↓	<.001	↓	<.001

Admission voluntary or not.....

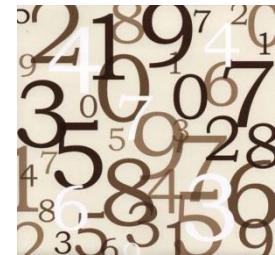




TIME
TO
WAKE
UP!

All patients Emergency psychiatry 2009-2014

Voluntary admission-compulsory/coercive



	Admission	Vol/Comp-coerc
No suicidal behaviour	24.1%	11.9/12.3%
Suicidal thoughts	37.3%	25.4/11.9%
Suicide attempt	43.7%	24.7/19.0%

Voluntary admission and suicidal behaviour



Voluntary admission			
	significance	Exp(B)	CI
Age	0.04	0.91	0.82 – 0.99
Gender (female)	0.001	0.78	0.67 – 0.90
Drugs/alcohol	<0.0001	2.23	1.78 – 2.78
Mood disorder	<0.0001	2.01	1.64 – 2.48
Psychotic symptoms	<0.0001	1.80	1.37 – 2.36
Axis II	<0.0001	1.63	1.26 – 2.10
Hanging	0.011	1.88	1.15 – 3.08

Involuntary Admission and suicidal behaviour



Involuntary admission			
	significance	Exp(B)	CI
Gender (male)	0.019	0.79	0.64 – 0.96
Mood disorder	<0.0001	1.97	1.56 – 2.47
Organic	<0.0001	9.36	4.95 – 19.09
Psychotic symptoms	<0.0001	7.71	5.93 – 10.02
Jumping	0.001	3.68	1.70 – 7.99
Rails	0.001	3.16	1.58 – 6.34
Hanging	<0.0001	6.87	4.11 – 11.47
Cutting	<0.0001	3.05	1.88 – 4.95

Conclusions



- Suicidal behaviour “common” in emergency psychiatry
- For all patients > suicidal behaviour:
 - ↓ **Deferred, Drugs/alcohol, Organic, Psychotic disord.**
 - ↑ **Mood disorder, Axis II, Anxious disorder, Adjustment disorder**

Conclusions 2

suicidal: predictors



- **Voluntary**
- Male
- Older
- Drugs/alcohol
- Axis II

- Affective disorder
- Psychotic

- **Involuntary**
- Female
- Attempt (severity)
- Organic

- Affective disorder
- Psychotic

Limitations & strengths

- Not detailed, no questionnaires, underestimation
- Absence of differentiation unique/consultation
- Overlap patients in consultation and correction bootstrap...
- Comparison voluntary/unvoluntary



- Size
- Control of Area
- Concordance in consultation
- “all” serious suicidal behaviour > consultation



Thank you audience!!!!!!



- And also
- Marina Dassen MD
- Mathijs Deen M.Sc
- Jolien Bueno de Mesquita MD, Ph.D
- Bert van Hemert MD, Ph.D



Conclusions 2



- voluntary



- involuntary

