

“Healthy Physicians for a Healthy Society”

READMISSION AMONG INPATIENT PHYSICIANS WITH MENTAL AND/OR ADDICTIVE DISORDERS: A DESCRIPTIVE STUDY OF RISK FACTORS.



Pilar Lusilla
Antoni Gual
Dolores Braquehais
Miquel Casas

Learning objectives

- ▣ To know how often readmission occurs among inpatient physicians when they suffer from an addictive or a mental health disorder.
- ▣ To identify risk factors associated with frequent readmissions
- ▣ To know the role of a physician's health program in the development of preventive strategies.

Introduction

- ▣ The literature shows that some physicians need to be admitted into a hospitalization unit for substance detoxification or for treatment of a mental disorder but few evidence has been reported among how often they relapse and need to be readmitted



How often do doctors need to be readmitted?

- ▣ 1 in 4 monitored physicians with DUD relapse at least once. (Gallegos, MMJ, 1992; Domino, JAMA, 2005)
- ▣ 8% of Relapses affecting patient safety (DuPont, Journal of Substance Abuse Treatment, 2009).
- ▣ Most relapses of substance abuse occurs in the first two years after the initial treatment. (Gallegos, MMJ, 1992)
- ▣ No studies have been published focussing on readmitted inpatients

Reasons for readmission

- ▣ Doctors show a tendency to intellectualize their symptoms (McCracken, JAMA. 2010)
- ▣ Relapse may be related with re-entry to work or during on call periods (Du Pont et al. Journal of Substance abuse treatment, 2009)
- ▣ Patient safety: The success of the physicians health programs is related with an initial intensive residential treatment (Skipper, Journal of Addictive diseases, 1997) a long follow-up and frequent readmissions (Talbot, Principles of Addiction Medicine, 2003)

Looking for risk factors...

- ▣ Pretreatment variables are not different among doctors who relapse compared with those who don't relapse. (Gallegos, MMJ, 1992)
- ▣ Outcome of physicians with mild severity of alcohol or drug problems is not different from physicians with multiple treatment admissions. (Morse, JAMA, 1984)
- ▣ Relapse among monitored physicians with SUD is related to a major opioid use, family history of SUD and dual diagnosis (Domino, JAMA, 2005)

What doctors say about their relapse...

- ▣ Failure to understand and accept the disease
- ▣ Denial or loss of control
- ▣ Dysfunctional family
- ▣ Stress and inability to cope with it
- ▣ Isolation
- ▣ Untreated secondary addiction (sex, food, work)
- ▣ Overconfidence
- ▣ Medical problems
- ▣ Poor “continuing care” monitoring

(Gallegos, MMJ, 1992)

Objectives

- ▣ To describe and analyze variables associated to readmission among a sample of physician specialists treated in the Inpatient Unit of the Integrated Care Program for Physicians (PAIMM) of Barcelona (Spain).

Method (I)

- ▣ 335 consecutive inpatient admissions were evaluated from November 1998 to December 2007.
- ▣ Readmissions were studied for a period of 11 years: December 1998 to December 2009

Method (II)

- ▣ All patients were diagnosed according to DSM-IV criteria.
- ▣ Demographic and clinical variables were evaluated as well as variables to analyze program performance.
- ▣ Parametric (t-test, ANOVA) and no-parametric (X^2) tests and correlations were used to analyze the data.

Variables analyzed (I)

- ▣ Demographic:
 - Age
 - Gender
 - Marital status
 - Speciality

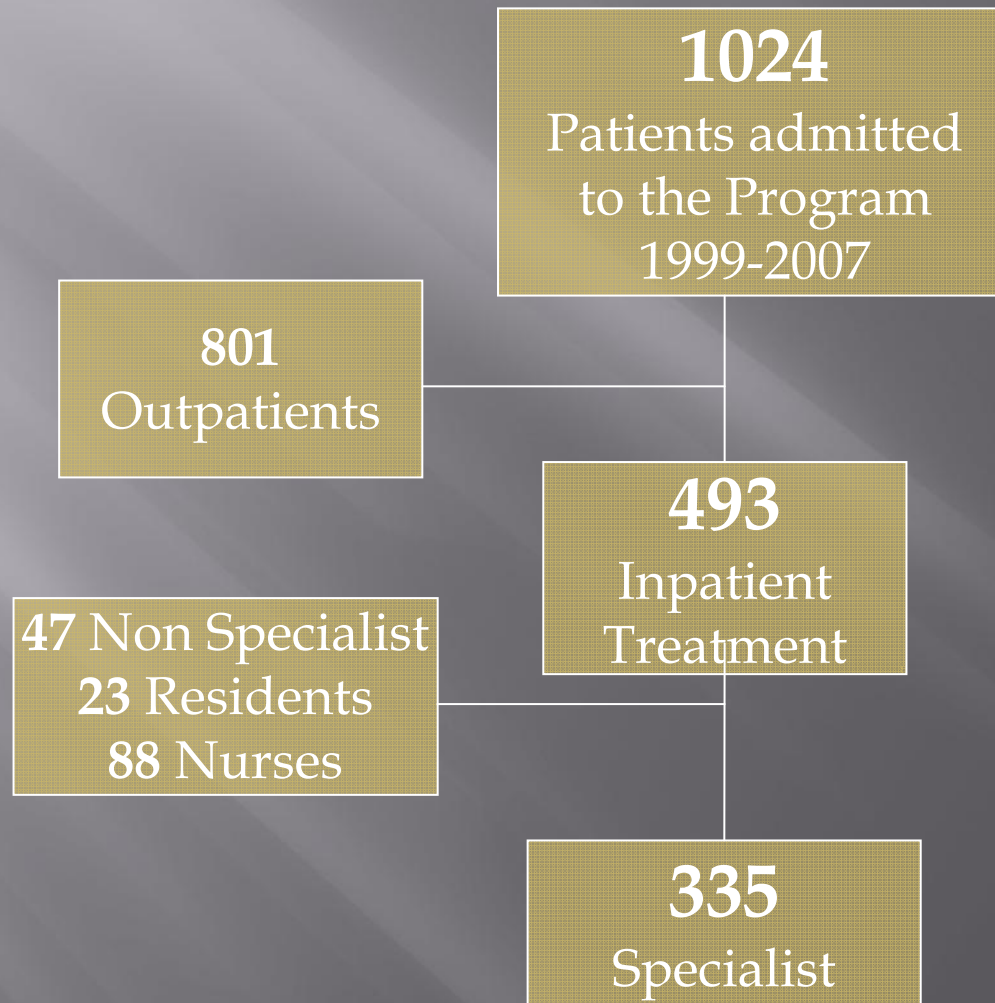
Variables analyzed (II)

- ▣ Clinical
 - Diagnosis
 - Severity of addictive behaviour (number of drugs abused, age onset addiction, UBEs)
 - Severity of mental disorder (scores in depression and anxiety rating scales, prior suicidal attempts)
 - Personality traits (MCMI-II, Millon)
 - Self prescription
 - Delay in seeking help
 - Prior treatments
 - Family antecedents

Variables analyzed (III)

- ▣ Variables to analyze program performance
 - Where the patient come from
 - Mode of access to the Program
 - Therapeutic Contract

Flow Chart



Readmission: some concepts

Readmission:

“New admission after previous inpatient treatment, due to relapse in substance use or severity of psychiatric symptoms”

Early readmission:

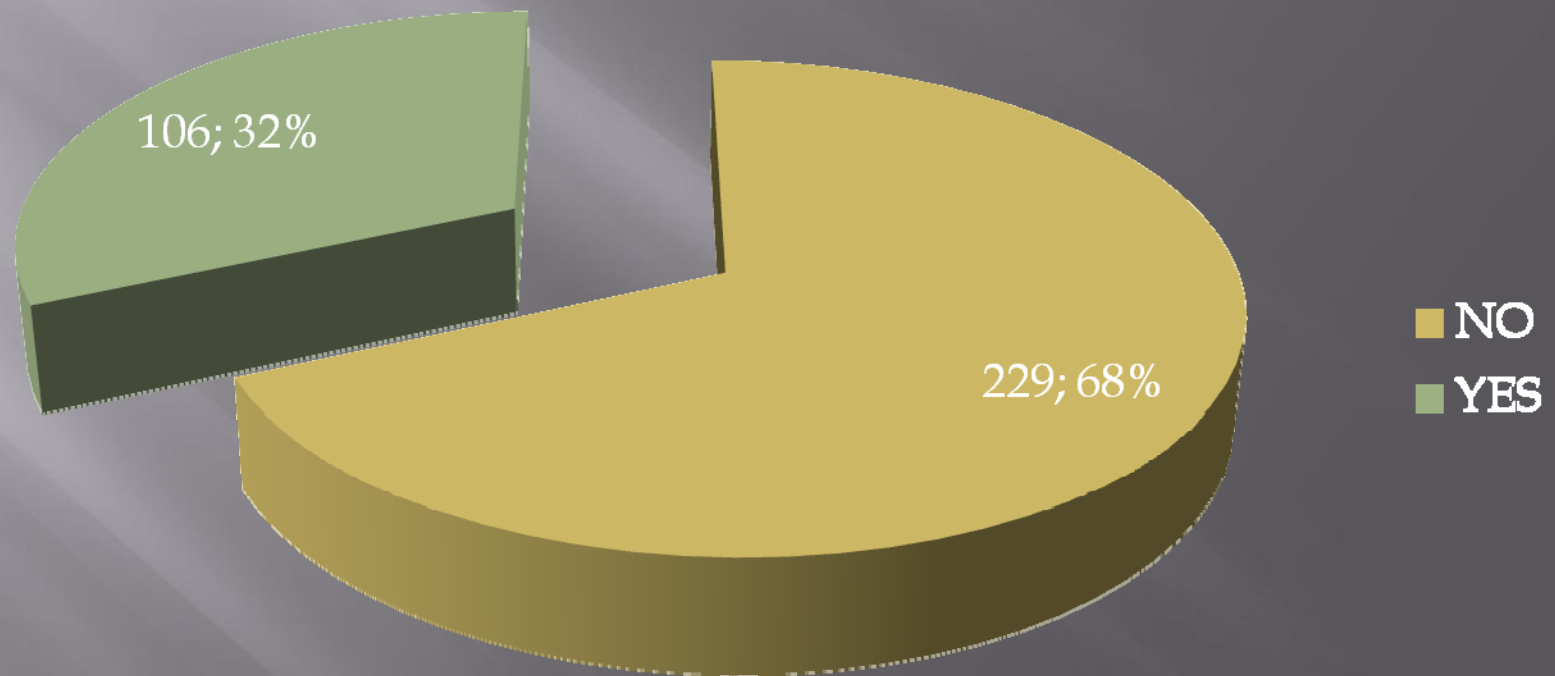
“Before six months after discharge”

Frequent admission:

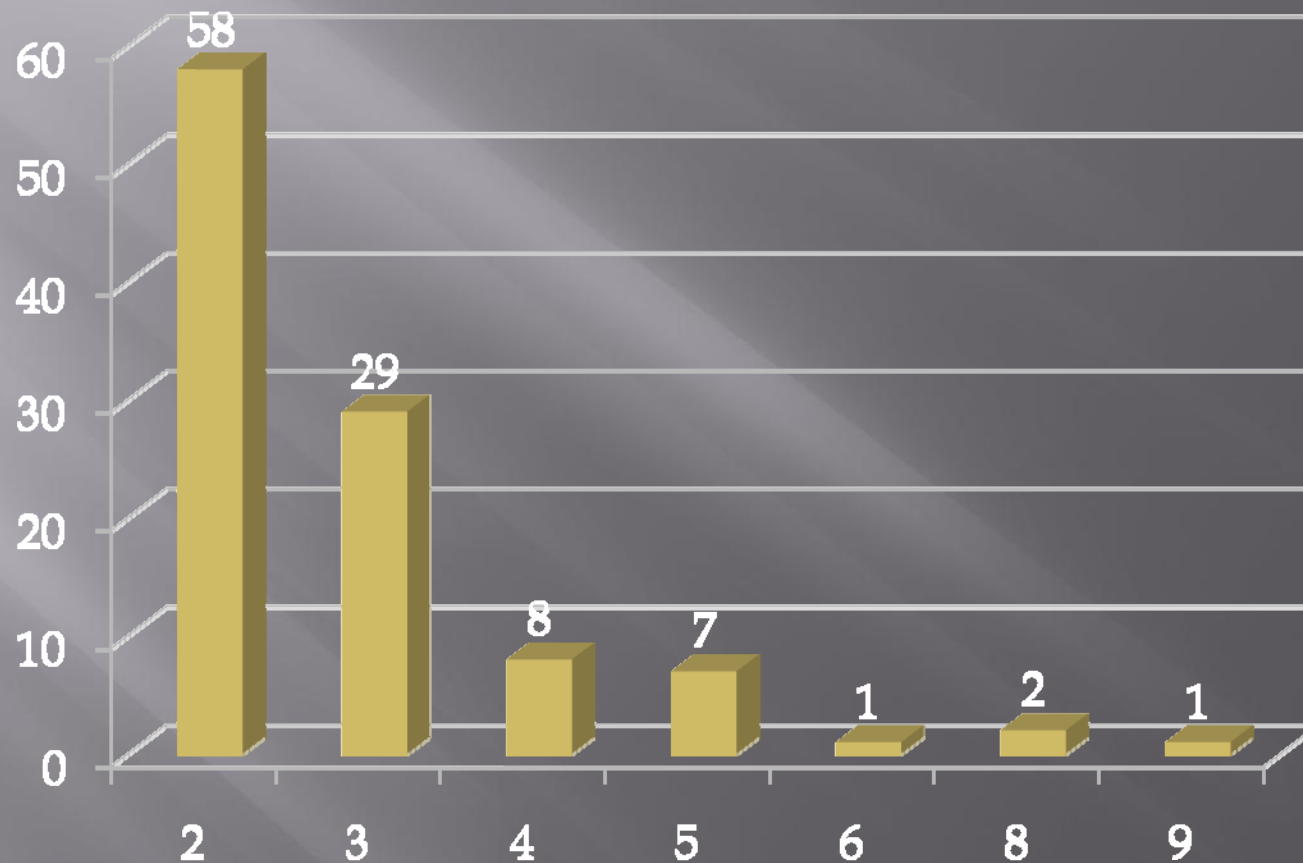
“Three or more readmission”

Results

Readmission

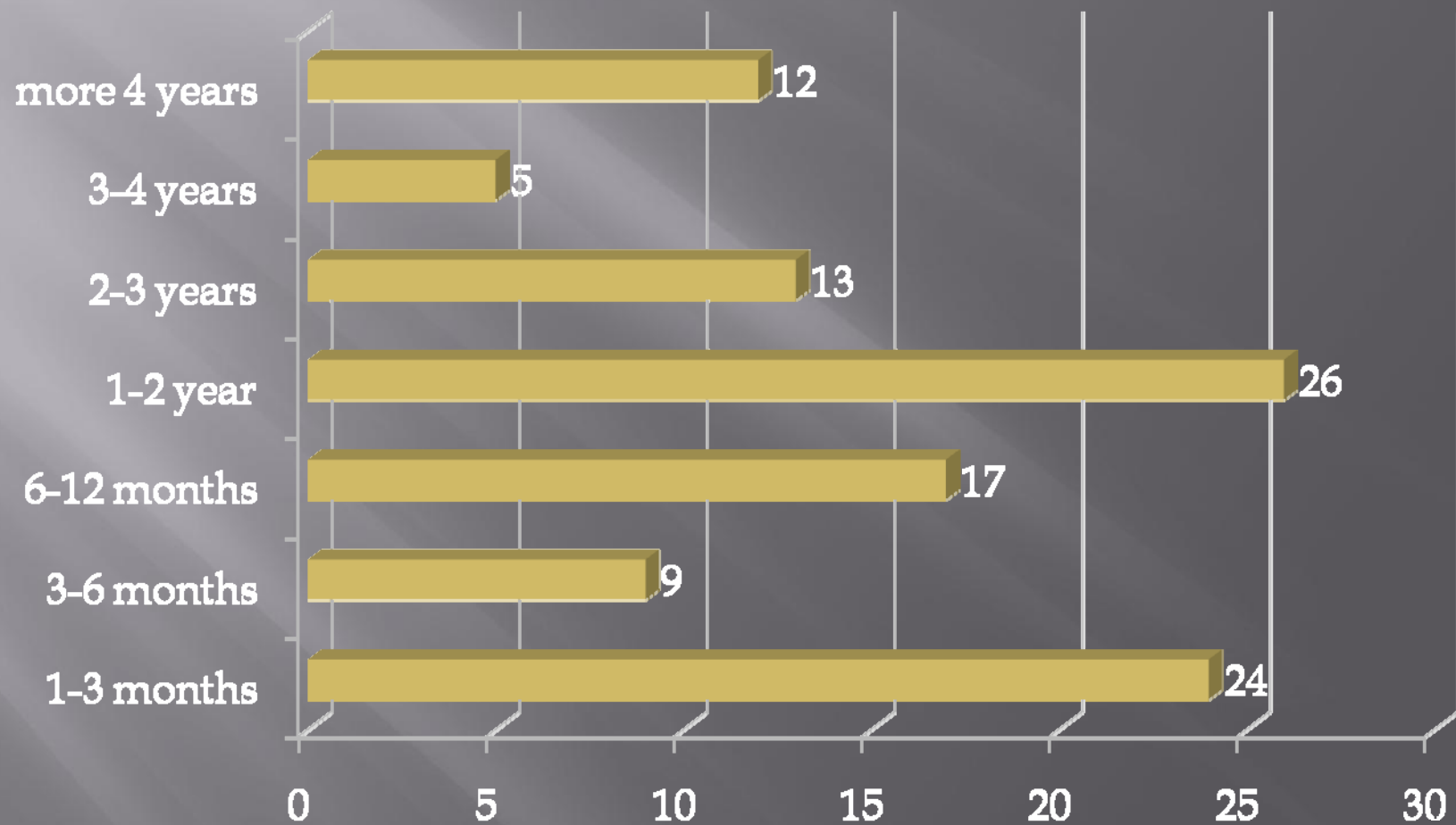


Number of readmissions



MEAN Readmission	SD	RANGE
2,8	1,3	2-9

Time to first readmission



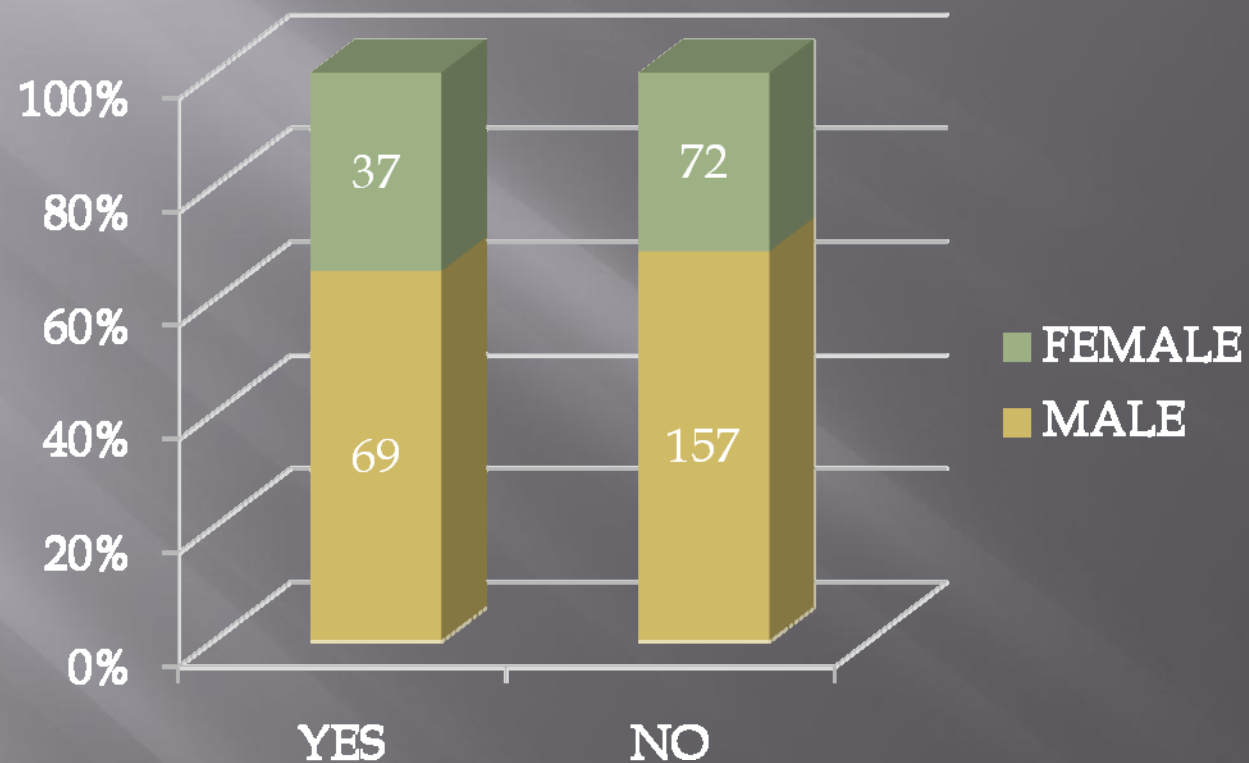
Mean time between readmissions

	MEAN MONTHS	SD	RANGE
First- Second Admission	20	21	1-102
Second- Third Admission	15	19	1-97
Third- Fourth Admission	12	17	1-56
Fourth-Fifth Admission	6	3	2-11

Age at first admission and readmission

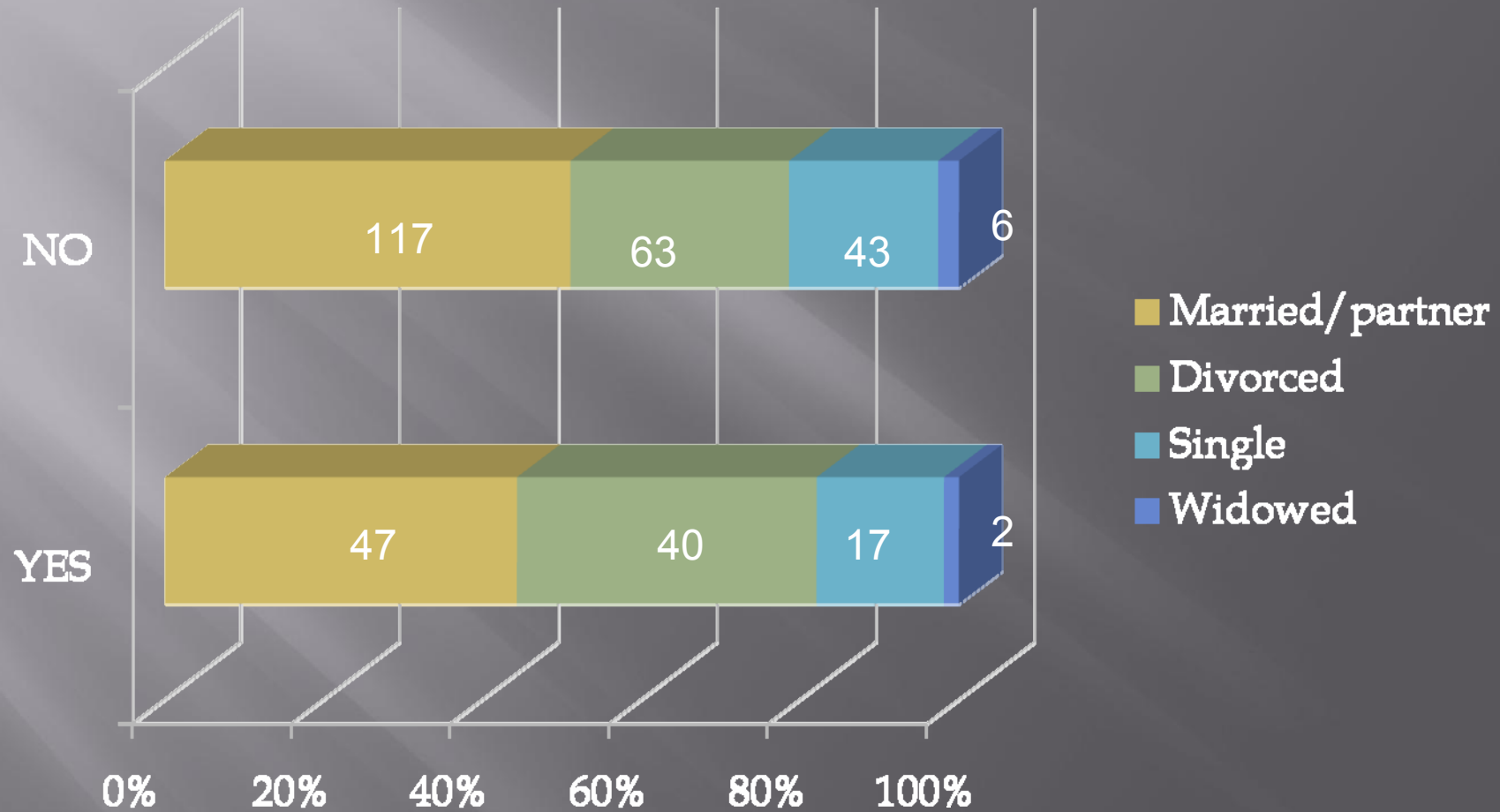
Readmission	Mean years (SD)	Range	Statistics
NO	46,6 (7,8)	29-72	
YES	46,7 (8)	31-72	n.s

Gender and readmission



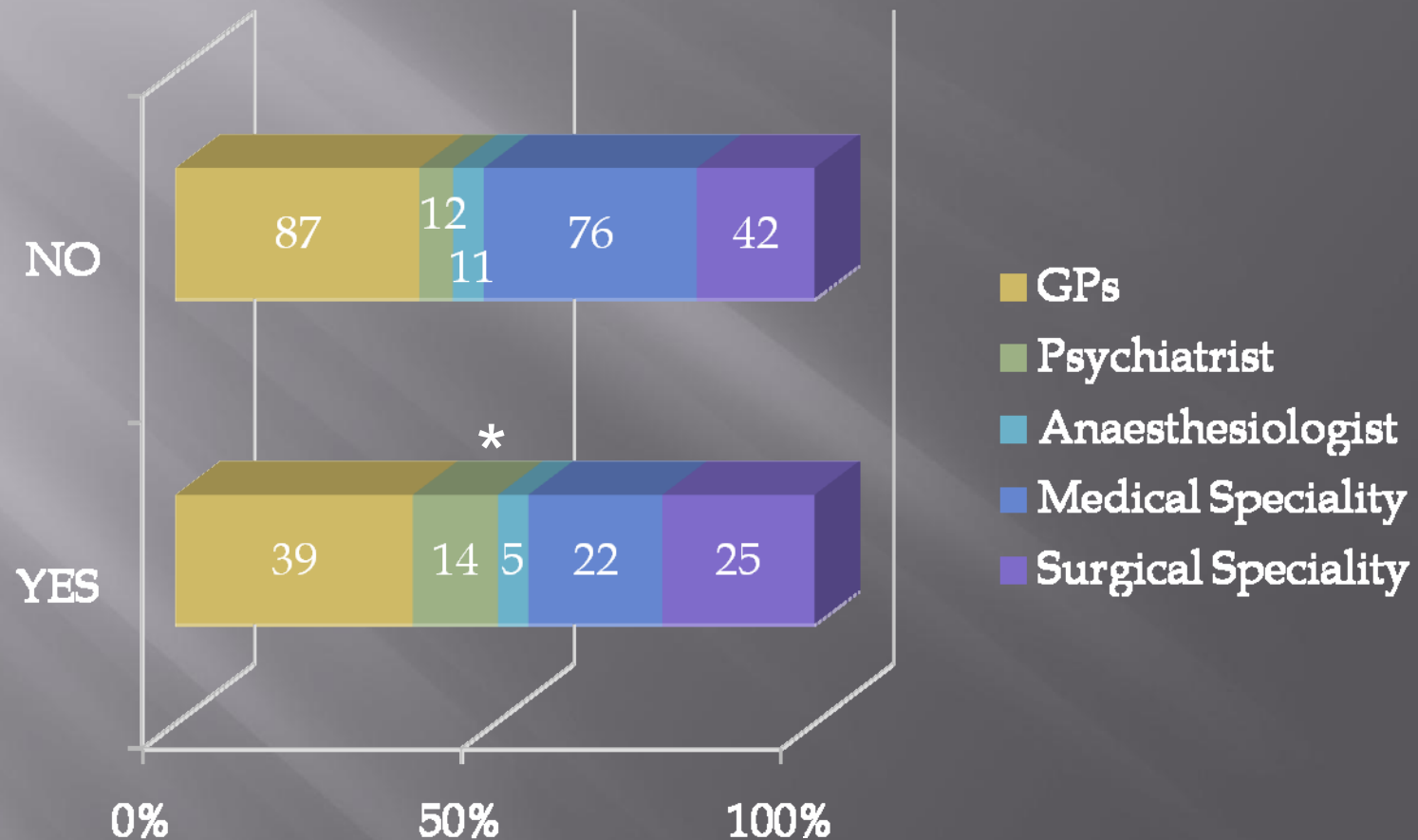
n.s.

Marital Status and readmission



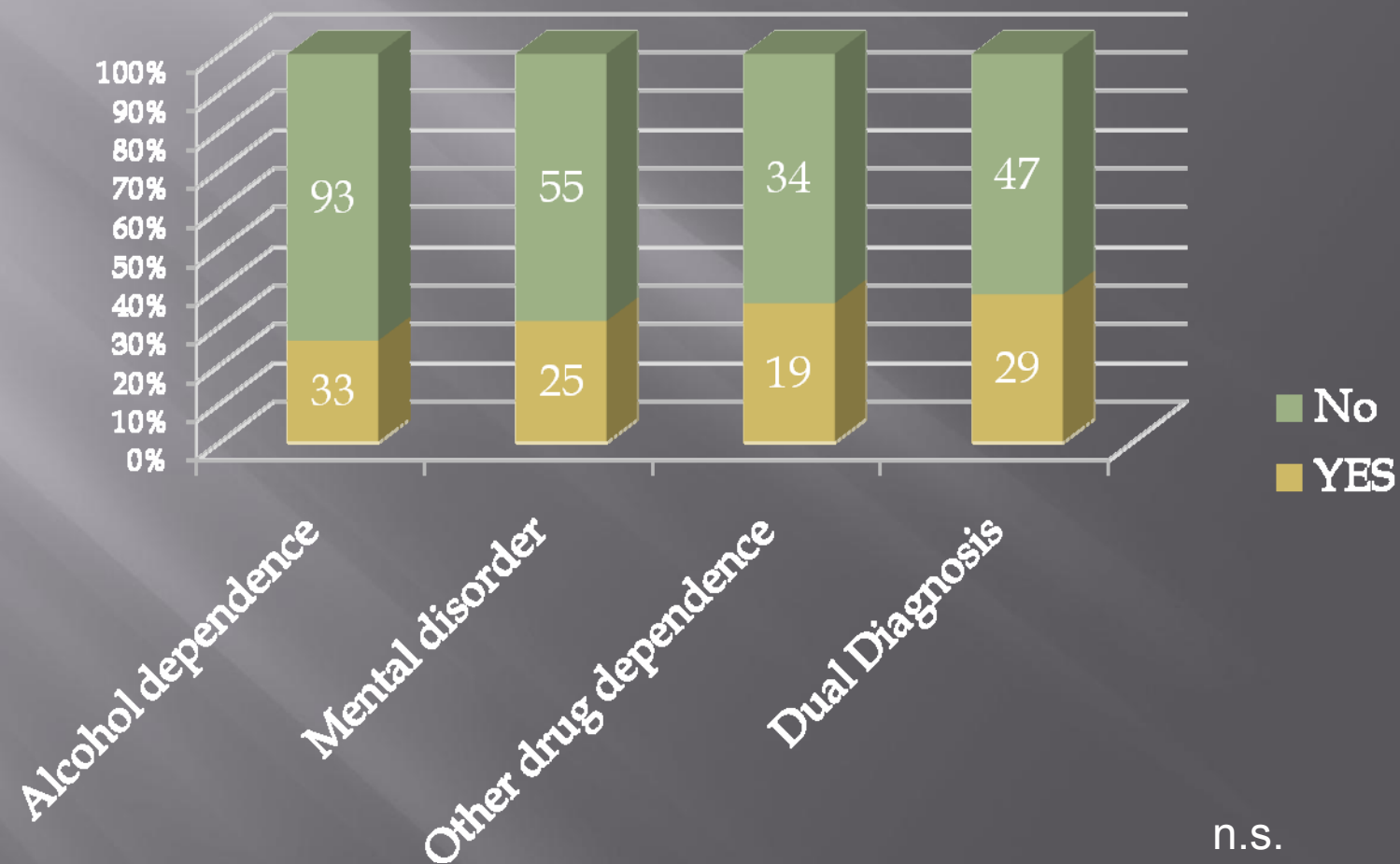
$P < 0.05$

Speciality and readmission

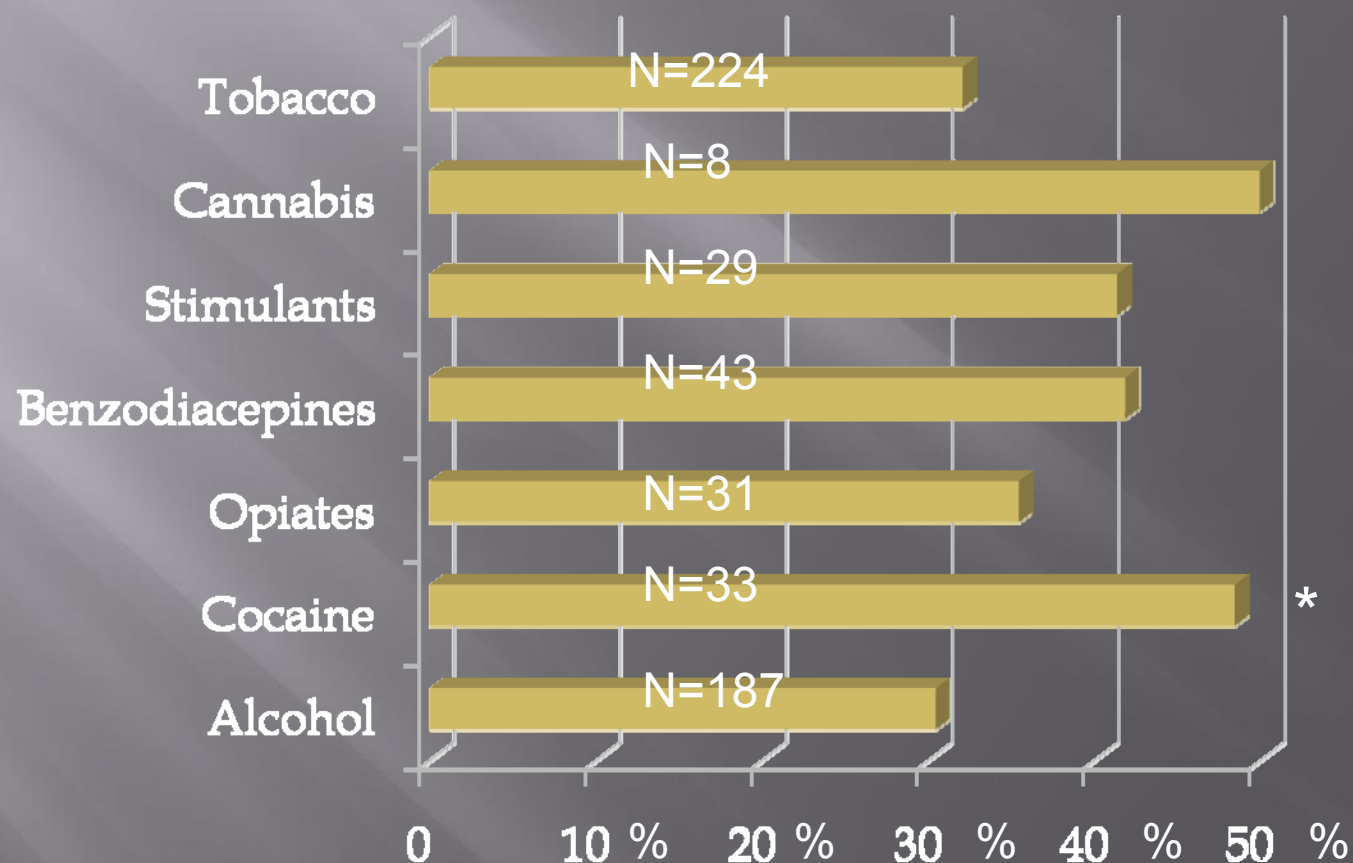


* $\chi^2 = 10.7$, $df=4$, $p<0,02$

Readmission by cause of admission

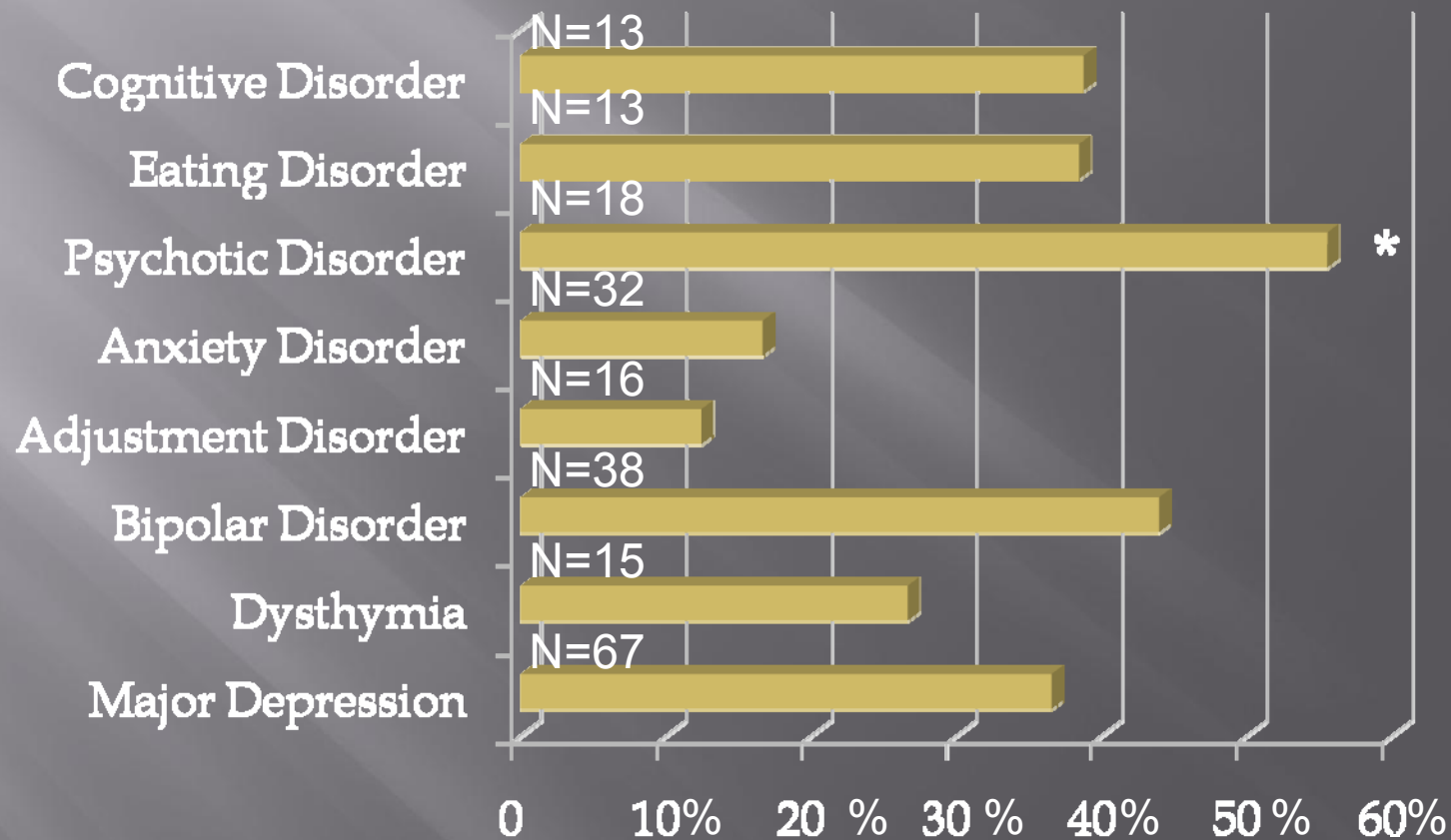


Readmission (%) by DSM-IV-TR Diagnosis of Drug Dependence



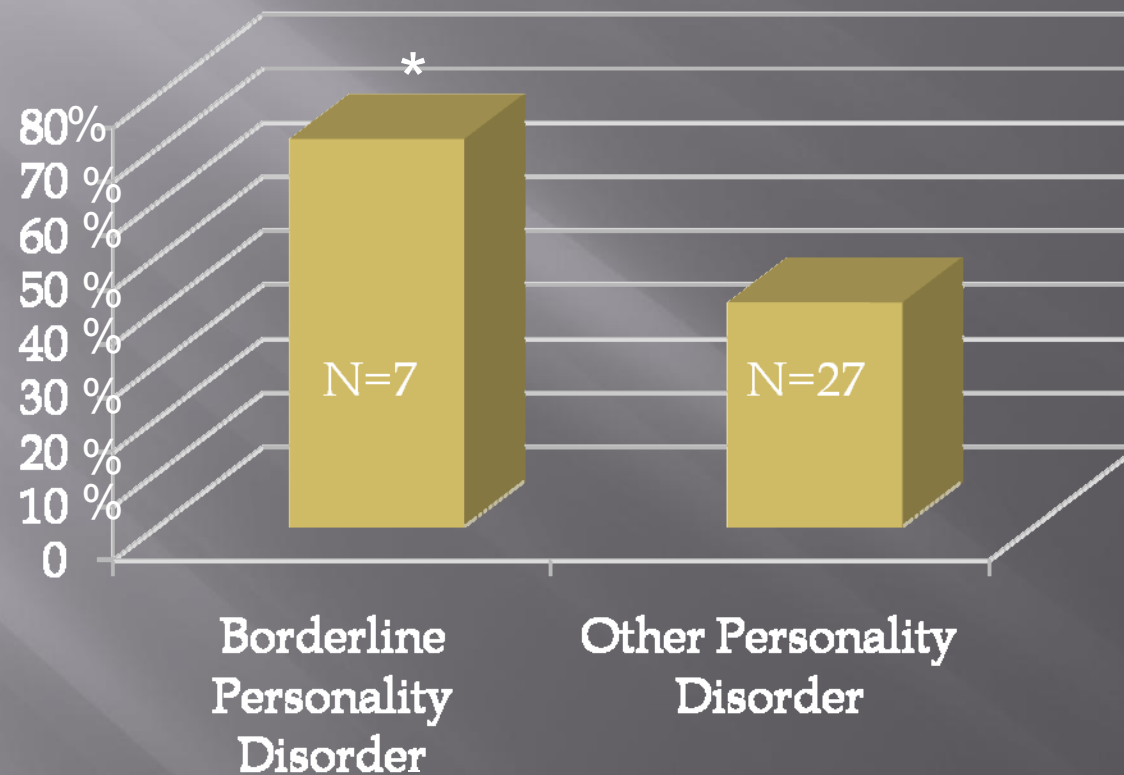
$\chi^2=4,8$, $df=1$; $p<0.02$

Readmission (%) by DSM-IV-TR Diagnosis Mental Disorders



* $\chi^2 = 5,02$; $df = 1$; $p < 0.02$

Readmission (%) by DSM-IV-TR Diagnosis Axis II Mental Disorders



* $\chi^2 = 5,2$; $df=1$; $p<0.03$

Readmission and severity of addictive behaviour

SIGNS OF SEVERITY	<i>Mean (SD)</i>	<i>Mean (SD)</i> Readmission	<i>Statistics</i>
Number of drugs misused (nicotine incl.)	1,9 (1,1)	2,2 (1,2)	t= 1,95 df=333 p<0,052
Cigarettes per day	24,6 (13,3)	25,3(12,6)	ns
Standard drink per day	15 (8,4)	14 (8)	ns
Smoking onset age	18,6 (6,5)	17 (5,5)	ns
Drinking onset age	24 (10)	25,3 (11,7)	ns

Readmission and severity of psychiatric symptoms

	<i>Mean (S D) No Readmission</i>	<i>Mean (SD) Readmission</i>	<i>Statistics</i>
BDI at admission	14,9 (11,2)	13,2 (9,4)	n.s
STAI-S at admission	54,1 (28,6)	50,6 (29)	n.s
STAI-T at admission	67,9 (28,6)	62,3 (29,5)	t=-2,7 df=240 p<0,03
Length of hospitalization	30 (21) days	31,7 (28)	n.s.

Readmission and Suicidal Behaviour

Current Suicidal Behaviour at admission and Past Suicidal Behaviour

	<i>n</i>	Readmission <i>n</i> (%)	Statistics
Current Suicidal thoughts	21	11(53%)	$\chi^2 = 4.4$; df=1; p<0.03
Current Suicidal Attempt	21	12 (57%)	$\chi^2 = 6.6$; df=1; p<0.01
Previous Suicidal behaviour	84	35 (42%)	$\chi^2 = 4.9$; df=1; p<0.01

Self prescription and Readmission



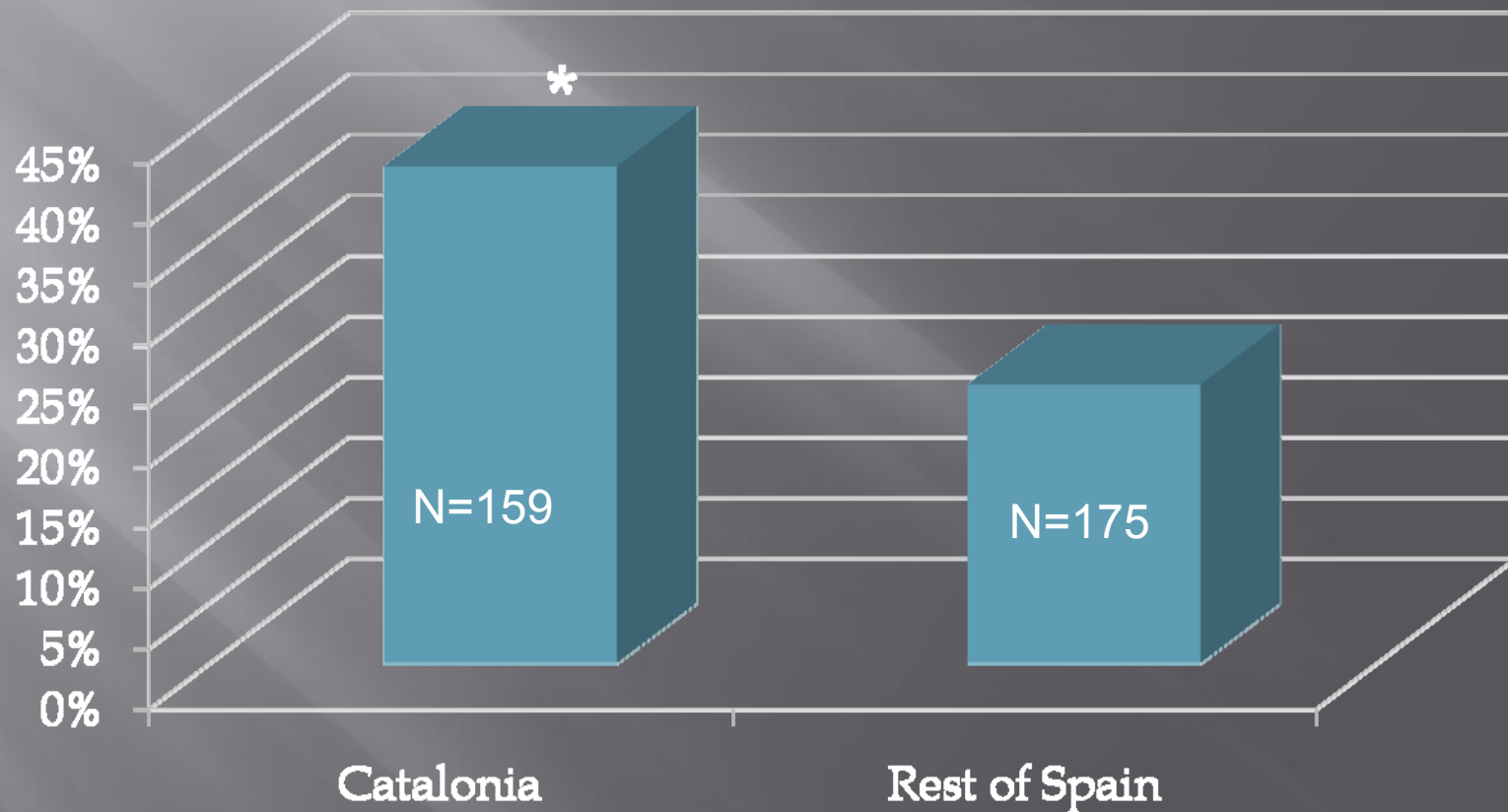
**“You’re just fine.
This prescription is for me!”**

Readmission was not associated with:

- ▣ MCMI-II personality scales
- ▣ Age onset mental disorder
- ▣ Delay in seeking treatment
- ▣ Prior Treatments
- ▣ Psychiatric Family Antecedents
- ▣ SUD Family Antecedents

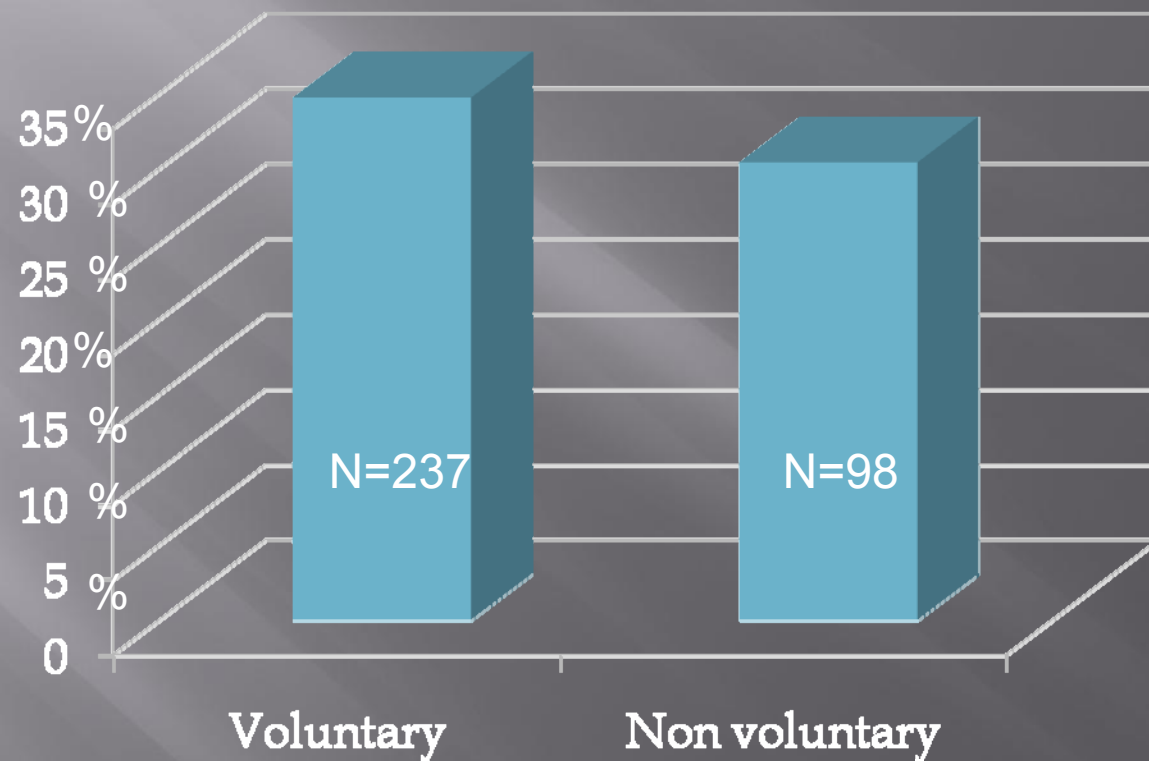
Readmission and source of patients

Source of patients



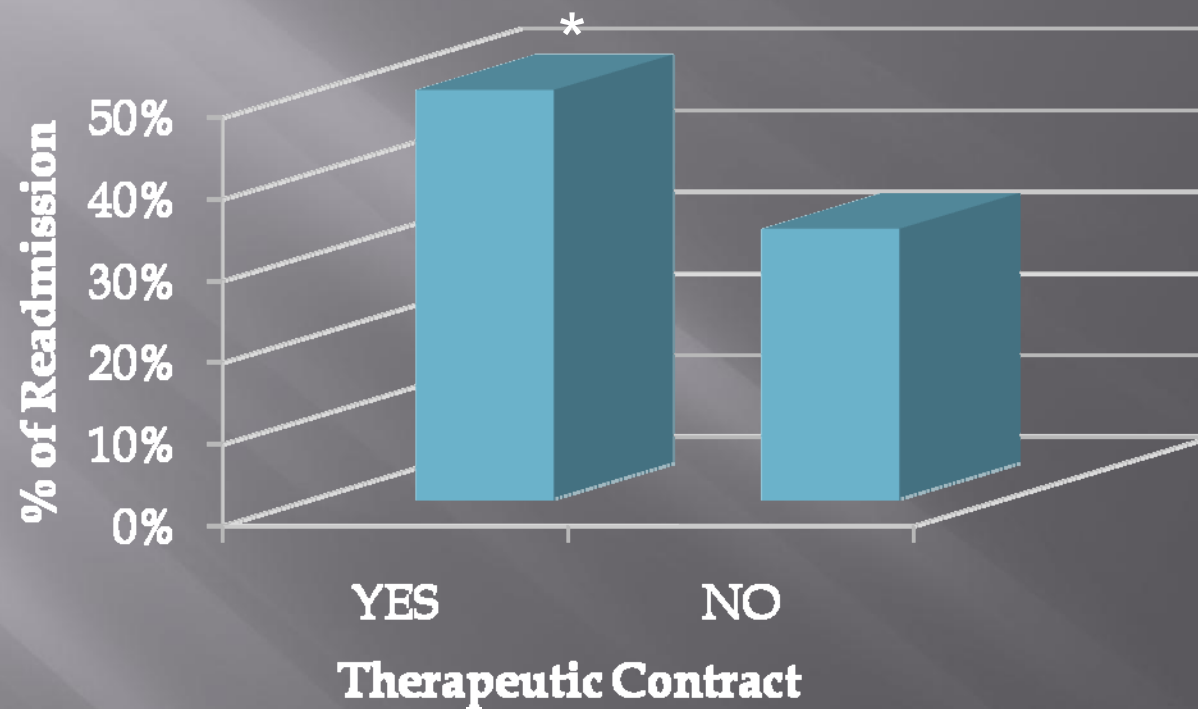
* $\chi^2=12,5$; $df=1$; $p<0,0001$

Readmission by mode of access to the program



n.s.

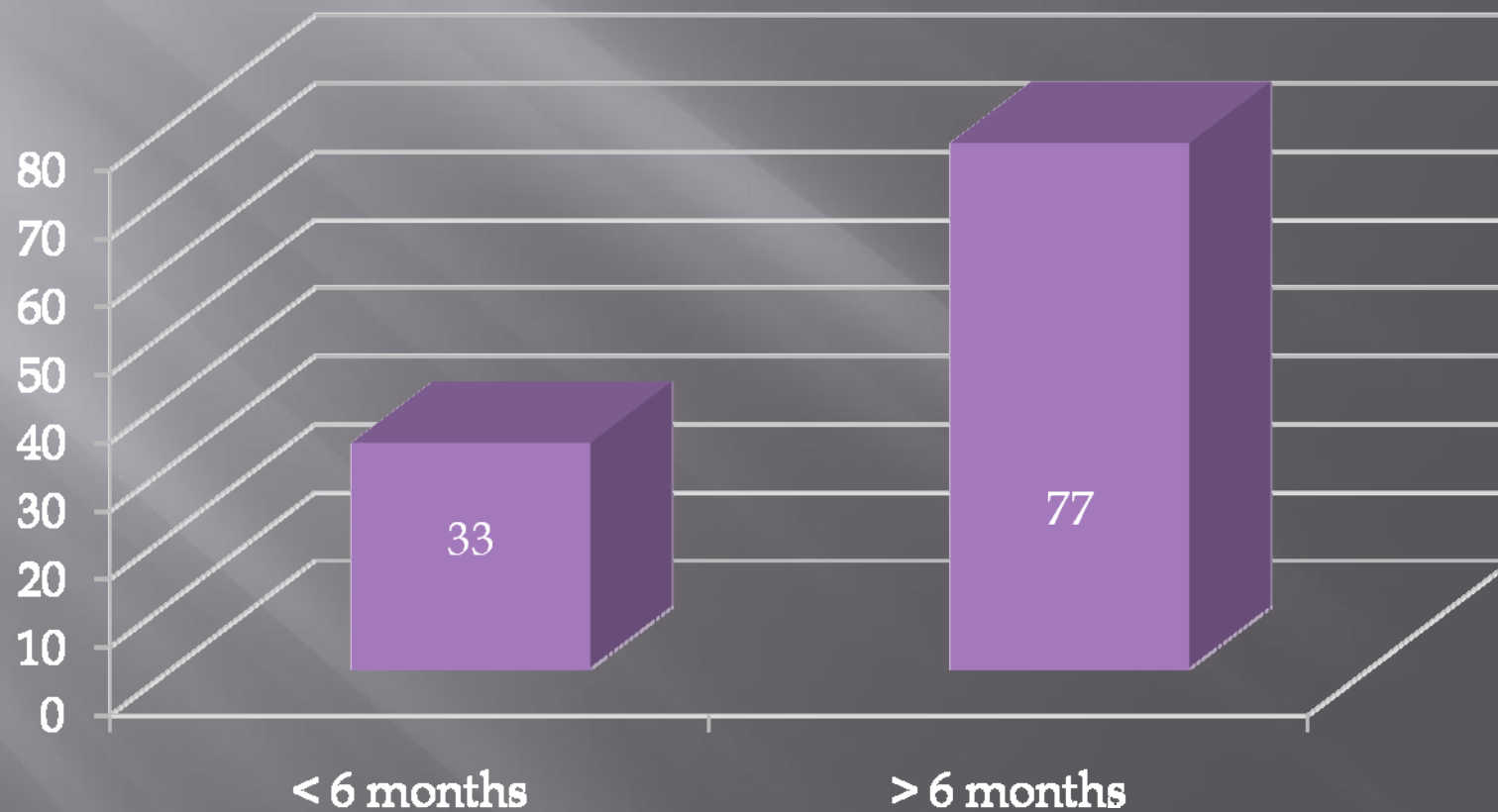
Readmission and Therapeutic Contract



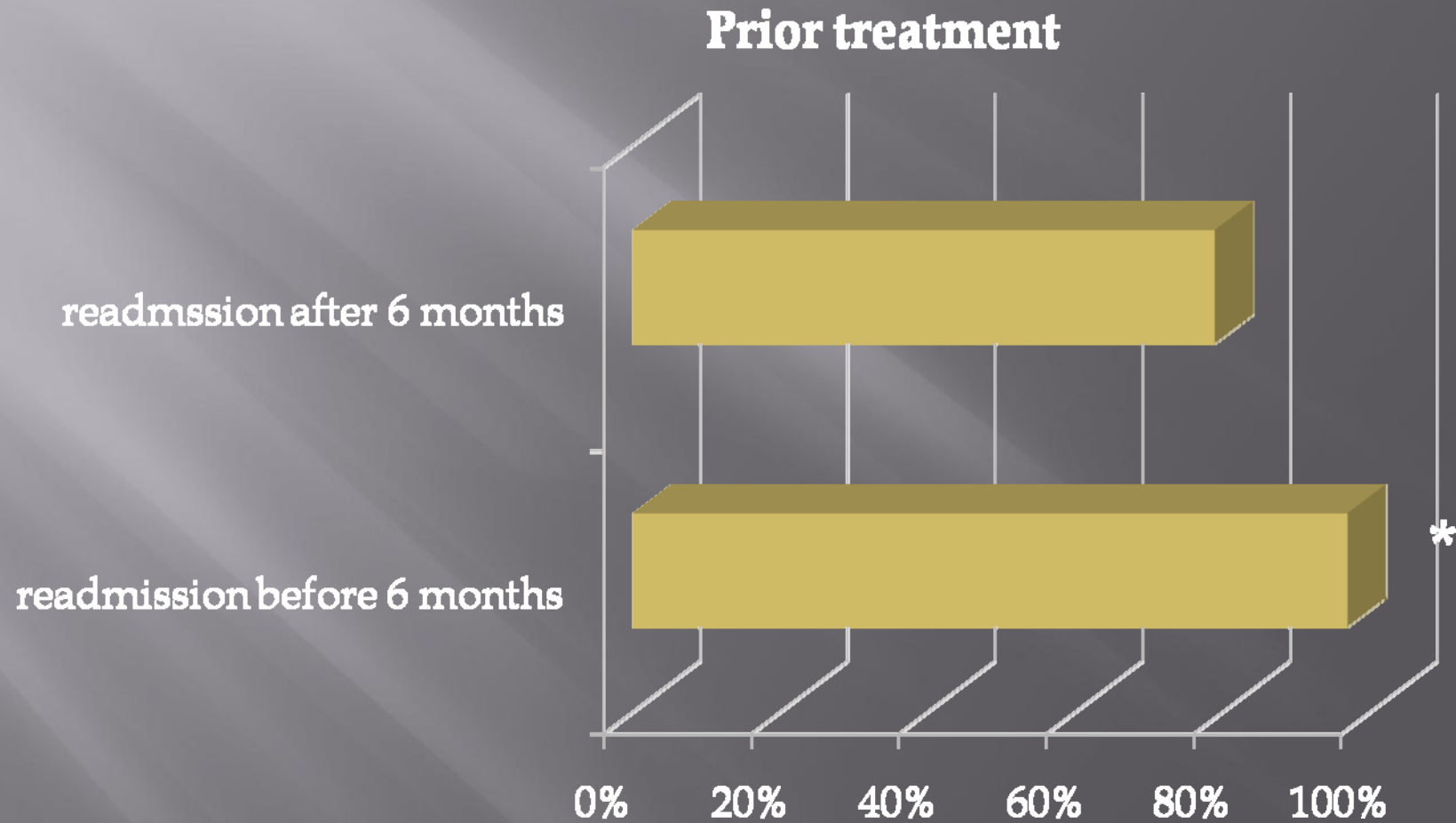
* $\chi^2 = 5,1$; $df = 1$; $p < 0,01$

Early readmission

Number cases

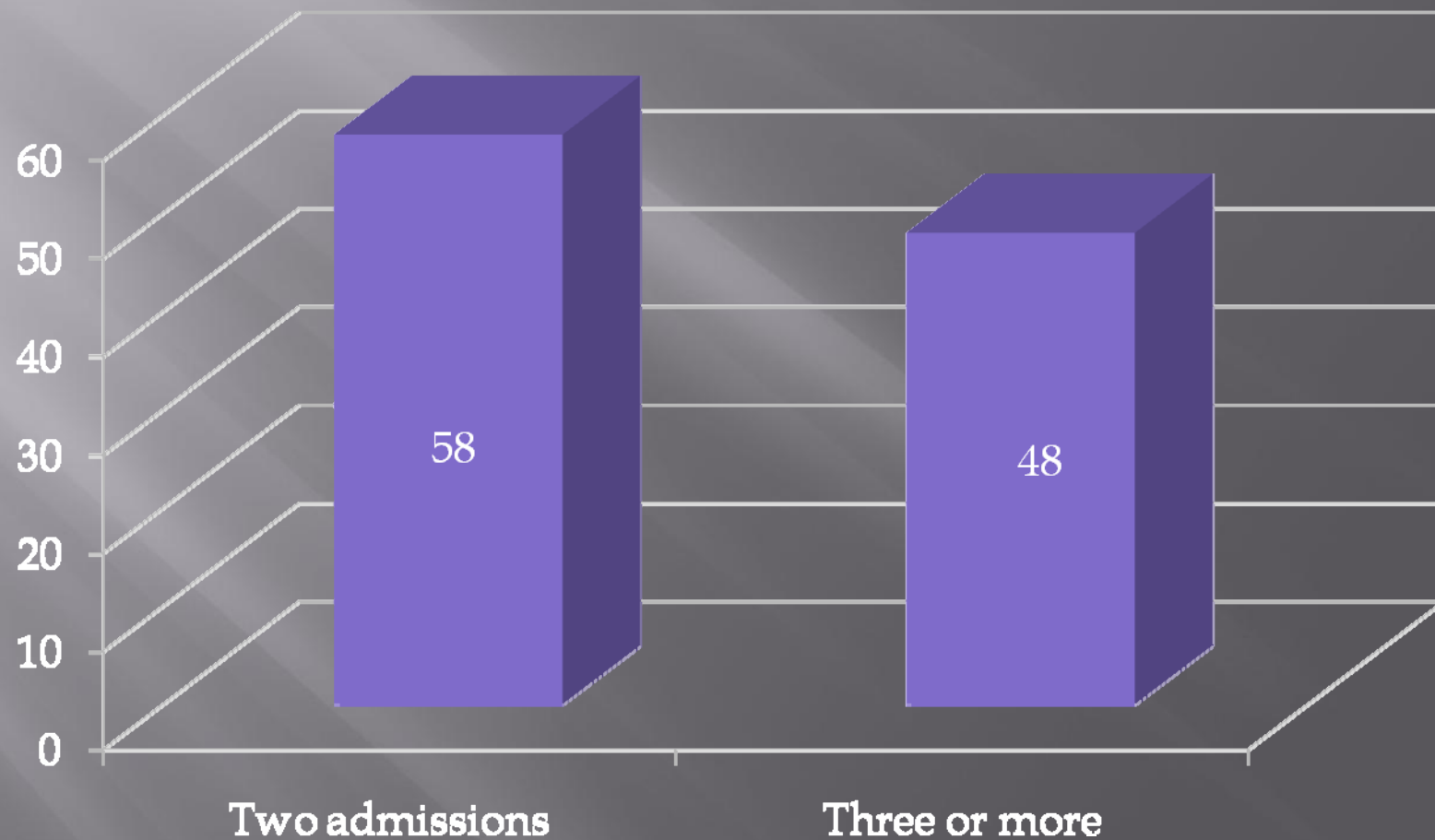


Early readmission and treatment prior to access to PAIMM

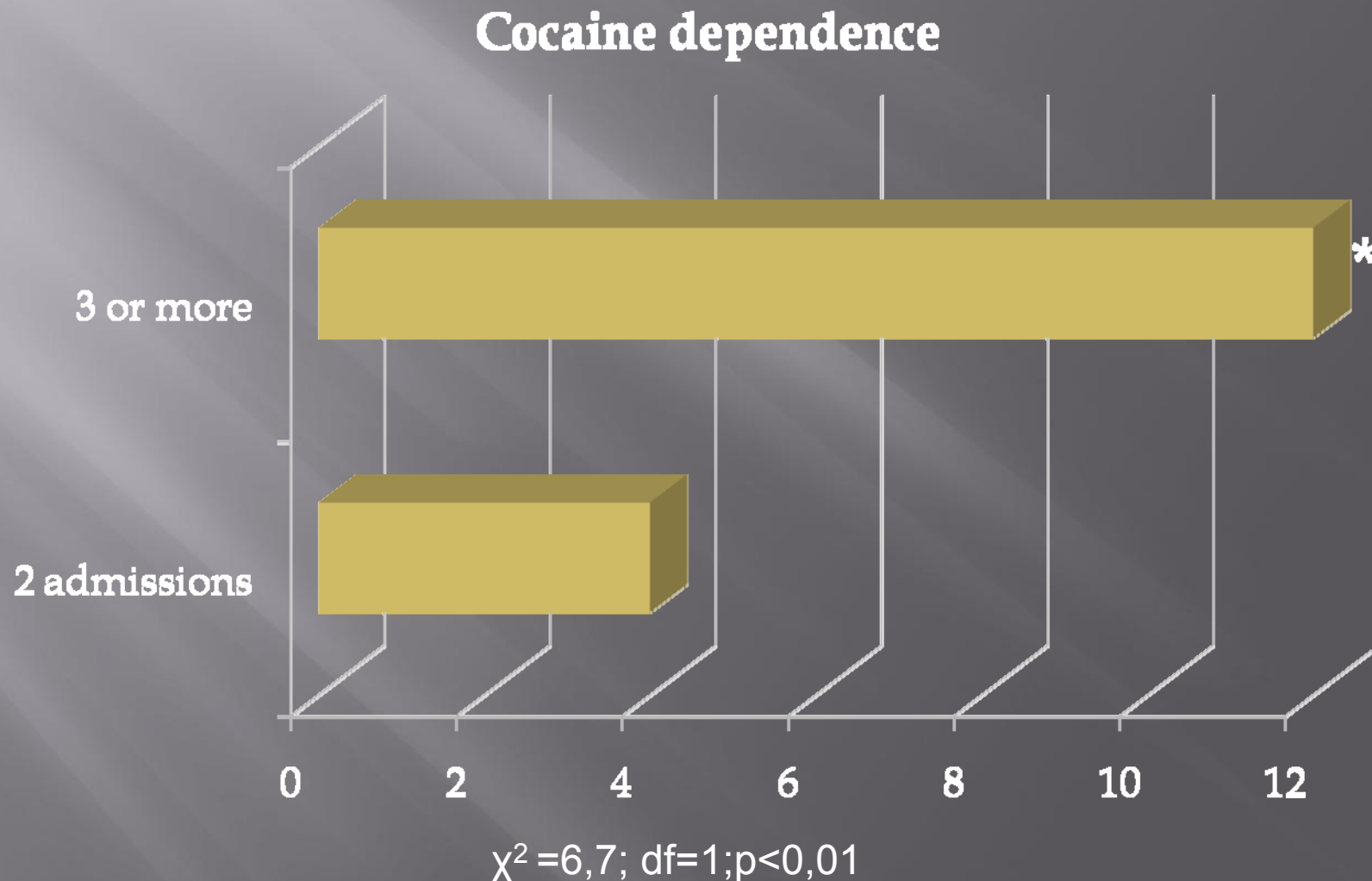


* $\chi^2 = 5,4$; $df=1$; $p<0,01$

Frequent Treatment admissions



Frequent treatment readmissions and cocaine dependence



Summary (1)

- ▣ A third of patients need to be readmitted during follow-up.
- ▣ Half of patients will be readmitted more than once
- ▣ One in four readmissions occurs during the first three months and the rate reaches 70% at second year.
- ▣ No differences were found concerning age, gender, severity of illness, length of admission, and mode of access to the Program
- ▣ Doctors who self-prescribe showed a non significant tendency ($p < 0,059$) to be readmitted

Summary (2)

- ▣ Readmission was associated with:
 - Being separated or divorced
 - Being Psychiatrist
 - Working in Catalonia
 - Cocaine Dependence
 - Psychotic Disorder
 - Borderline Personality Disorder
 - Suicidal Behaviour
 - Therapeutic contract
- ▣ Characteristics associated with earlier readmission were:
 - History of prior treatments

Take home message



Thank You
Grazie Takk
Thank You
DANKE
Merci
Thanks
THANK YOU
Gracias
Thank You
Obrigado