

Long-Acting Injectable Antipsychotics and Clozapine: Evidence-Based But Underutilized Treatments

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Key to Abbreviations

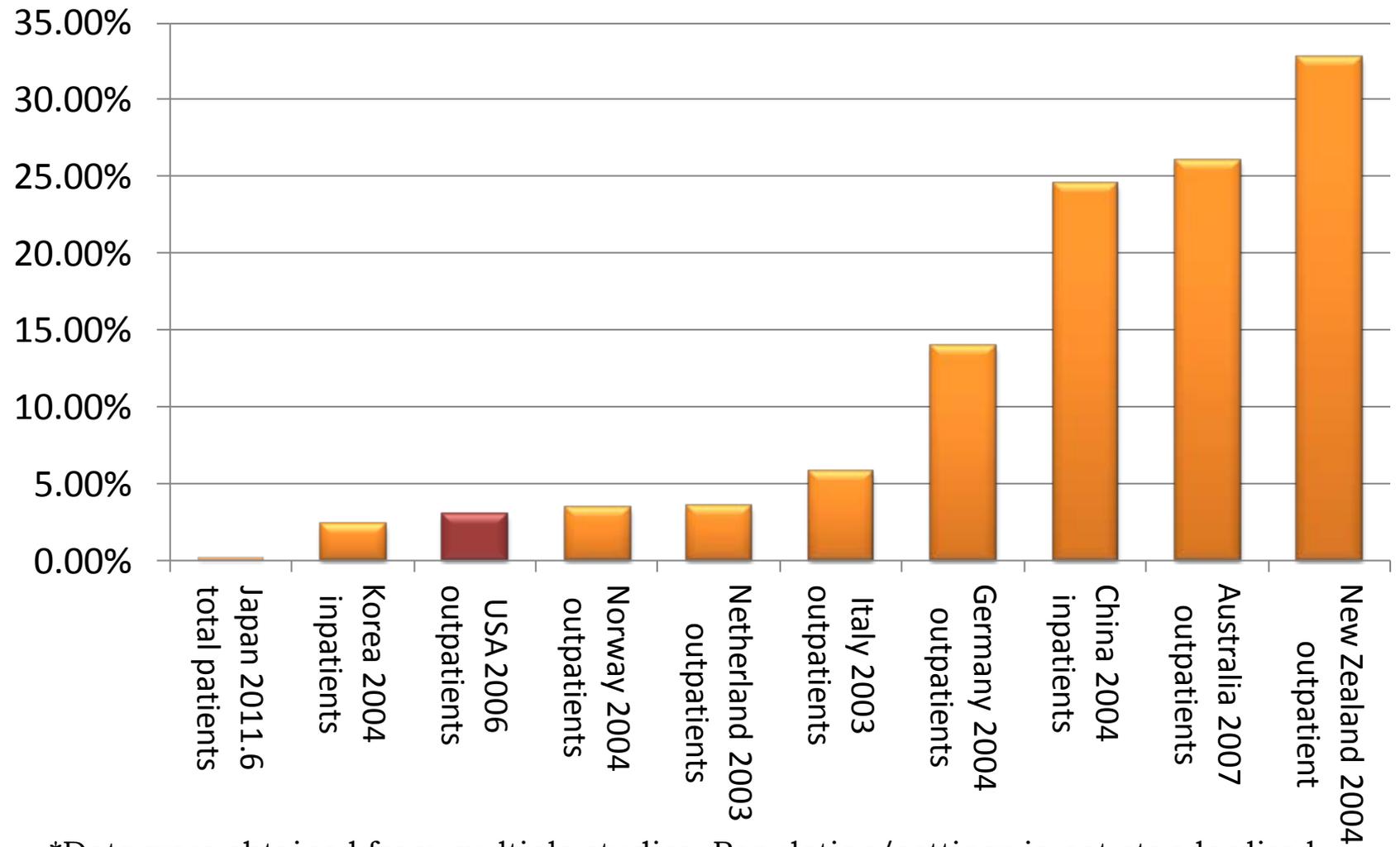
- ▶ AP: Antipsychotic(s)
- ▶ D/C: Discharge
- ▶ LAI: Long-Acting Injectables
- ▶ SE: Side effects
- ▶ SGA: Second generation antipsychotic
- ▶ SI: Suicidal ideation
- ▶ Sx: Symptom(s)
- ▶ TD: Tardive Dyskinesia
- ▶ NMS: Neuroleptic Malignant Syndrome



Guidelines Regarding Clozapine Use

Guidelines	Basic Use	Specific Clinical Features
American Psychiatry Association (APA)	<ul style="list-style-type: none"> • Persistent psychotic Sx after 2 AP trials – “should be given strong consideration” 	<ul style="list-style-type: none"> • Persistent hostility, aggressive behavior • Persistent SI • TD
Schizophrenia Patient Outcomes Research Team (PORT)	<ul style="list-style-type: none"> • Persistent and clinically significant positive Sx after ≥ 2 AP trials (including ≥ 1 SGA) – “should be used” 	<ul style="list-style-type: none"> • Persistent hostility/ violent behaviors – “should be used” • Marked and persistent SI/ behaviors – “should be offered” • NMS, persistent dystonia/severe or very distressing TD – “should be offered”
Texas Medication Algorithm Project (TMAP)	<ul style="list-style-type: none"> • No-response or partial response to 2 AP trials (including ≥ 1 SGA) 	<ul style="list-style-type: none"> • Recurrent suicidality, violence or substance abuse-”consider earlier trial” • Persistent positive Sx >2yrs-”warrants” • Persistent positive Sx >5yrs-”requires” (independent of # of AP trials)
National Institute for Health and Clinical Excellence (NICE)	<ul style="list-style-type: none"> • Sequential use of ≥ 2 APs (including ≥ 1 SGA) 	

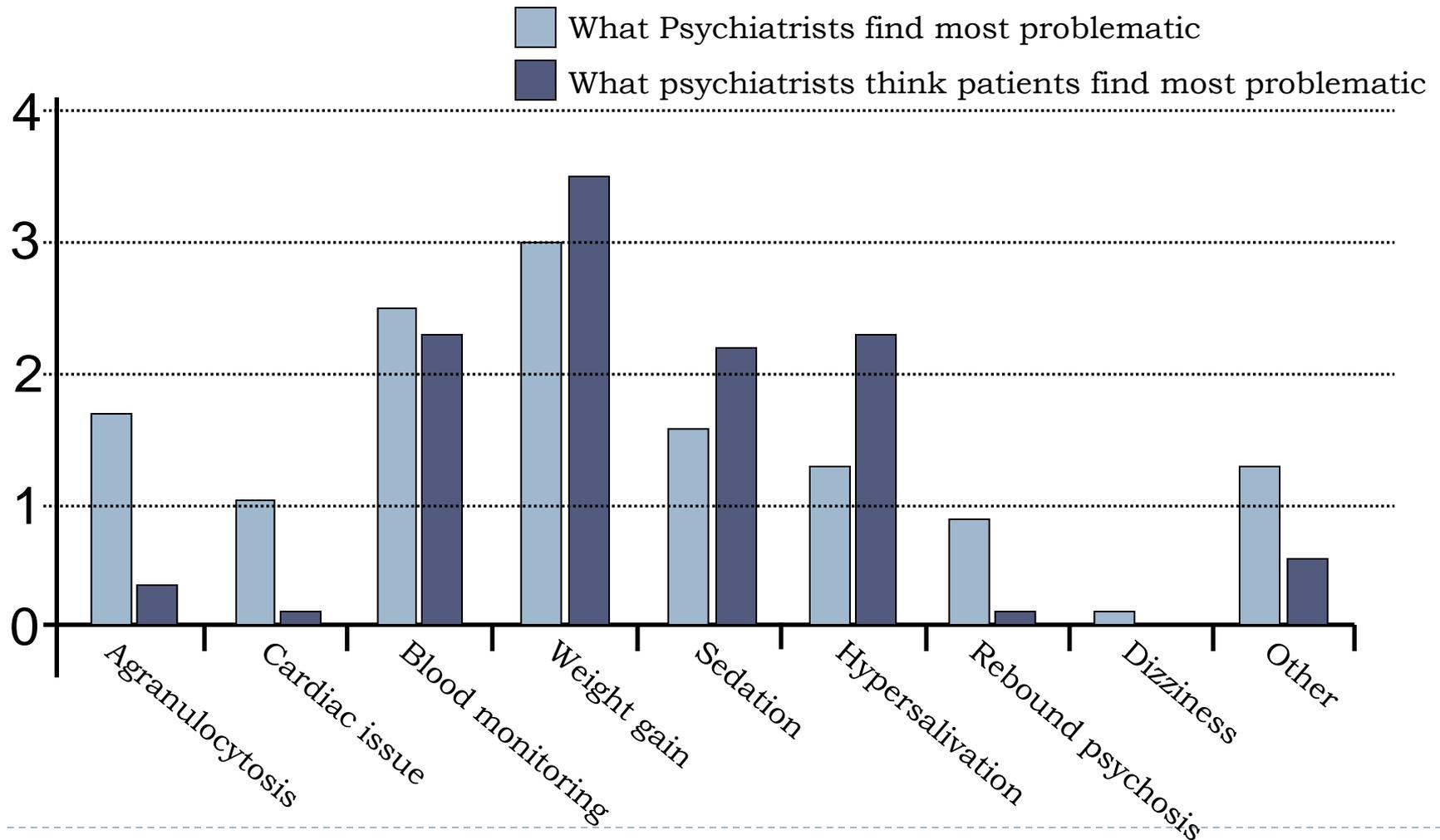
Clozapine Prescription Rate for Schizophrenia -International Comparison-



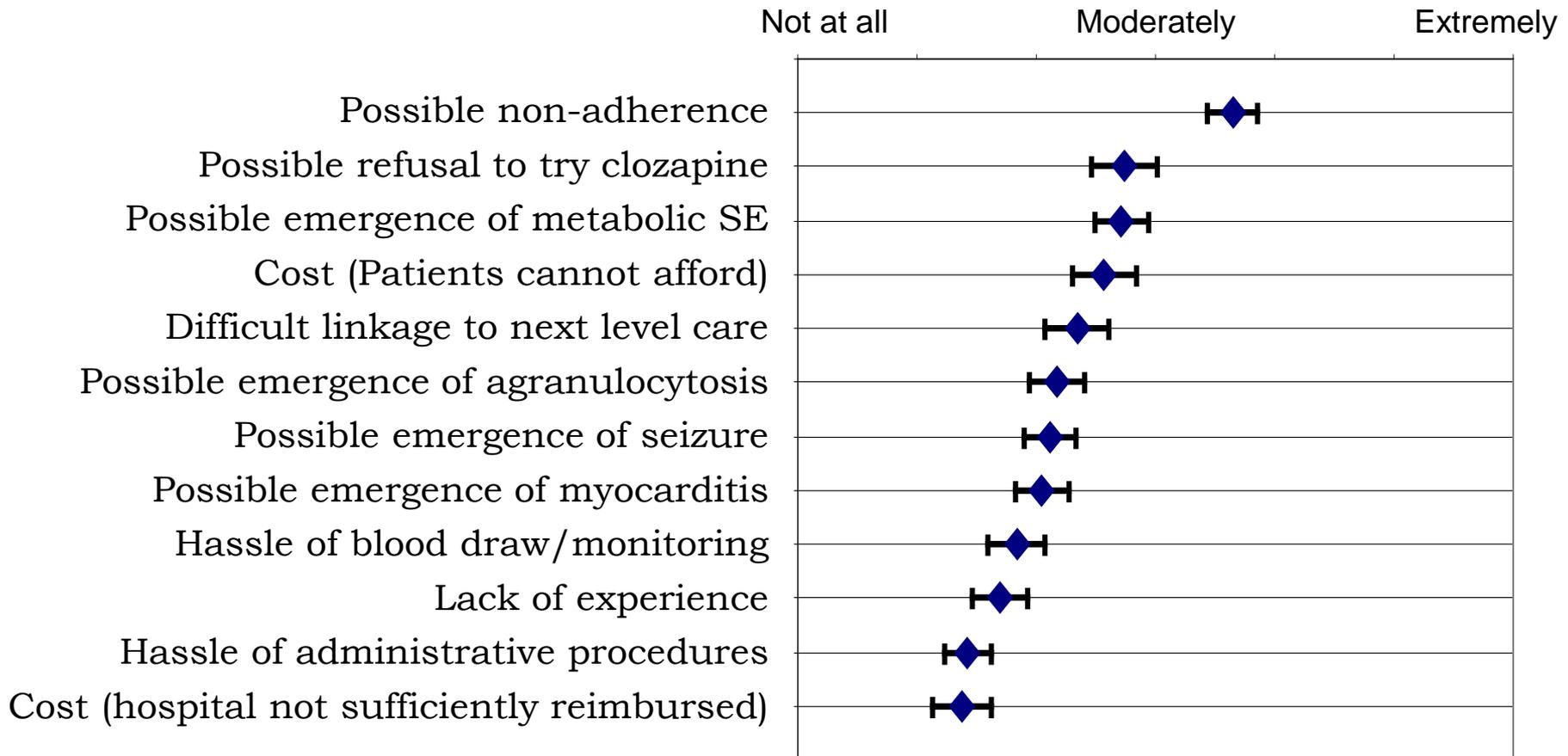
*Data were obtained from multiple studies. Population/settings is not standardized

▶ Kishimoto et al. In preparation, Monshat K et al. 2010, Shinfuku et al. 2008, Weinbrenner et al. 2009, Gherden et al. 2010, Haro et al. 2003, Wheeler et al. 2008

What Psychiatrists Find Most Problematic About Clozapine and What They Think Patients Find Problematic



Factors that Discourage Doctors from Prescribing Clozapine



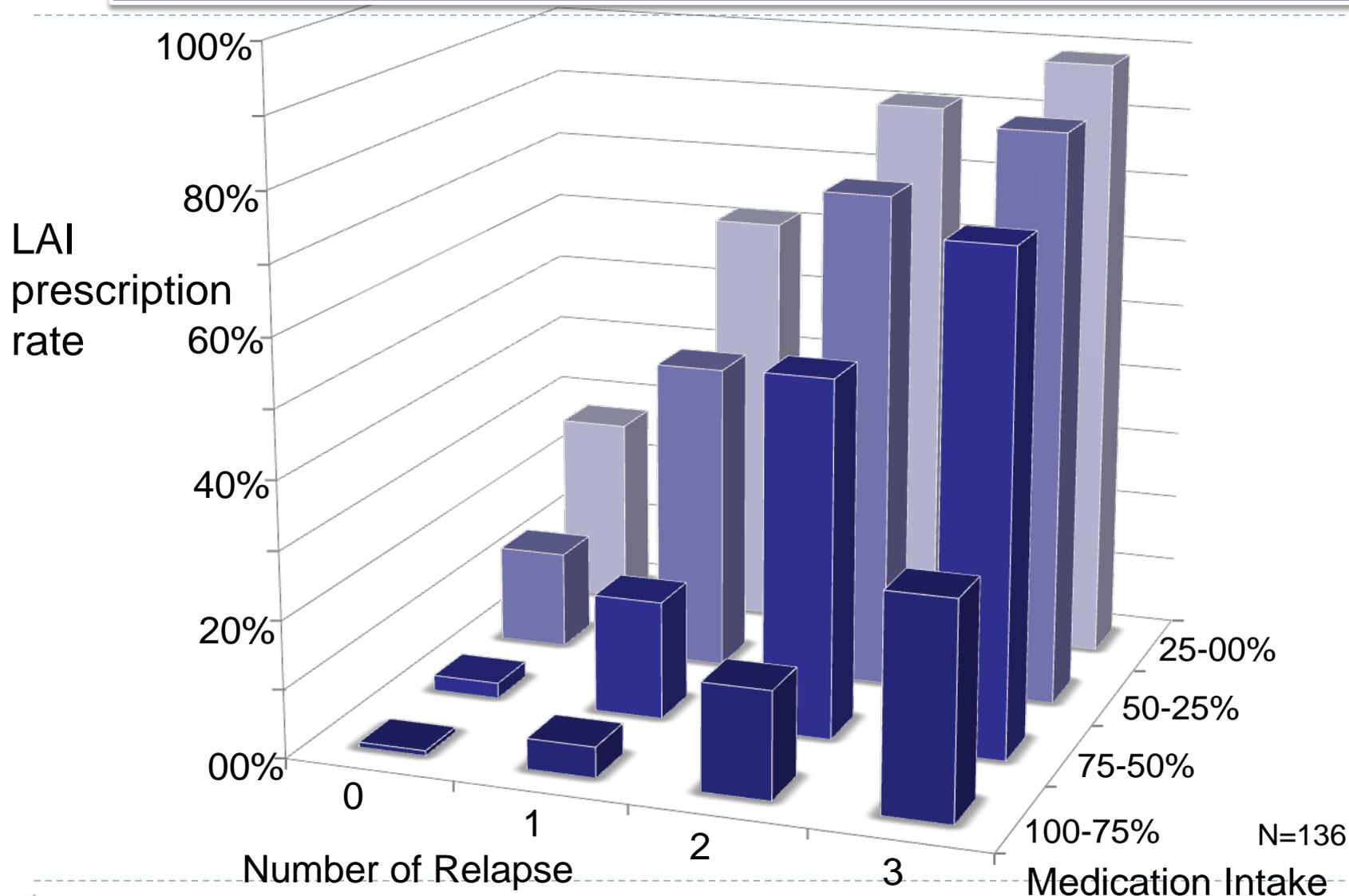
*Expressed mean with 95%CI

N=171

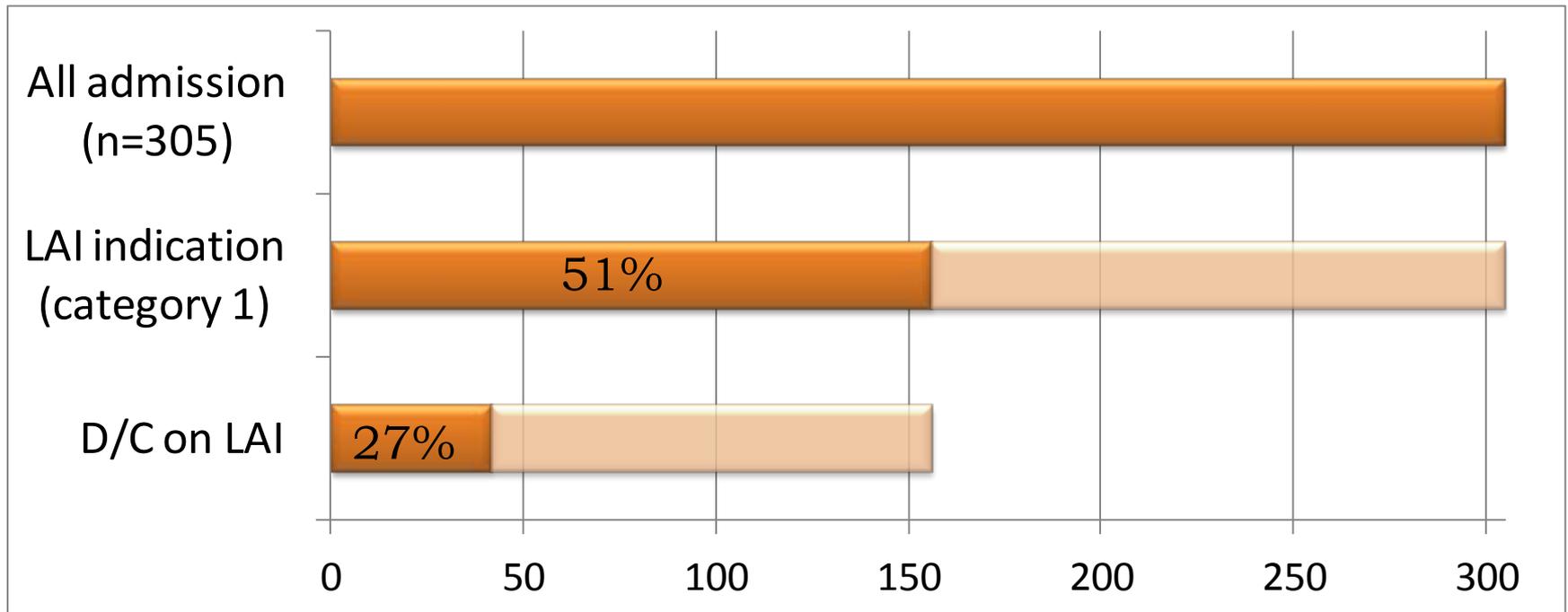
Guidelines Regarding Long Acting Injection Use

Guidelines	Use
American Psychiatry Association (APA)	Pts with recurrent relapses related to nonadherence are candidates, or pts who prefer LAI
Schizophrenia Patient Outcomes Research Team (PORT)	Consider LAI for pts who have a history of frequent relapse on oral medication, or history of problems with adherence, or who prefer LAI
Texas Medication Algorithm Project (TMAP)	Consider LAI when pts are inadequately adherent at any stage
National Institute for Health and Clinical Excellence (NICE)	Adherence doubtful or known to be poor

LAI Selection Rate According to the Number of Relapses and Adherence

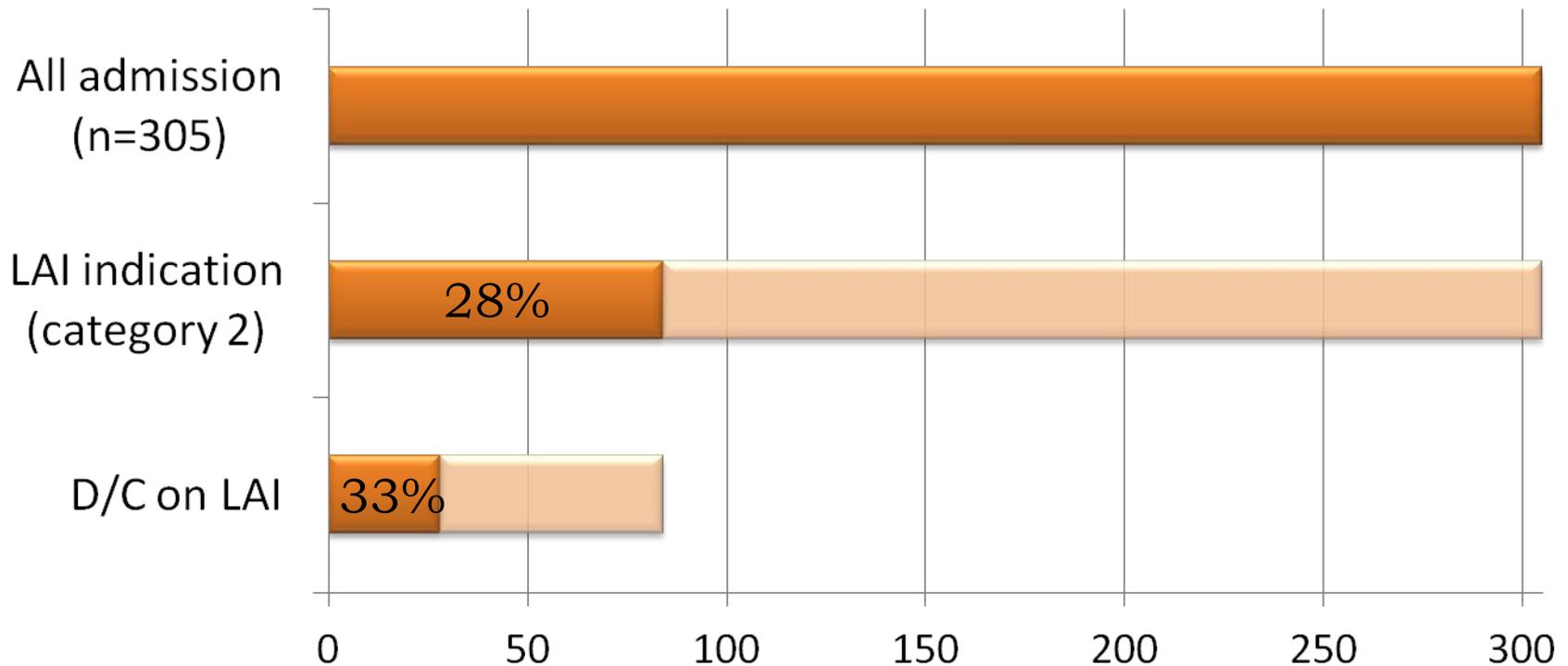


Percentage with LAI indication and Percentage Discharged on LAI



LAI indication (category 1): a) Index hospitalization due to non-adherence OR b) partial-adherence before index hospitalization AND ≥ 1 past hospitalization due to non-adherence

Percentage with LAI indication and Percentage Discharged on LAI



LAI indication (category 2): Index hospitalization due to non-adherence AND ≥ 1 past hospitalization due to non-adherence