

# Thirty-Day All-Cause Unplanned Readmission Following Psychiatric Hospitalization in an Inpatient Psychiatric Facility (IPF Readmission)

Calibration and Discrimination Testing Results

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## Calibration and Discrimination Testing Results

**Table 9a. Distribution of the observed and risk-adjusted score (by sex, age, and clinical risk-factors)**

Risk-adjustment model	N	Mean	min	p10	p20	p30	p40	p50	p60	p70	p80	p90	max
No risk adjustment (observed rate)	1,547	17.7%	0.0%	9.3%	12.4%	14.3%	16.1%	17.7%	19.2%	21.1%	23.0%	26.2%	100.0%
Sex, age, and clinical risk factors	1,547	19.2%	13.2%	16.3%	17.2%	17.9%	18.5%	19.0%	19.5%	20.2%	21.1%	22.4%	31.3%

**Table 9b. Results of the Hosmer-Lemeshow test for the risk-adjustment model**

Decile	Number of index admissions	Sum of expected IPF readmission rates*	Sum of observed IPF readmission rates*	Ratio of observed to expected IPF readmission rates*
1	27,957	2,252	2,618	1.16
2	27,958	2,783	3,033	1.09
3	27,958	3,279	3,325	1.01
4	27,958	3,824	3,842	1.00
5	27,958	4,433	4,246	0.96
6	27,958	5,090	4,827	0.95
7	27,958	5,817	5,630	0.97
8	27,958	6,670	6,747	1.01
9	27,958	7,825	8,138	1.04
10	27,958	10,275	11,095	1.08

\* Readmitted to IPF facility = Yes.

**Table 9c. Final model risk adjustment C-statistics**

IPF readmission rate	C-statistic
Observed vs. predicted	0.673
Observed vs. expected	0.658

**Figure 3. Risk-decile calibration plot**

