

OncoPredict

Cancer Trial Completion Prediction

10,000

Total Trials

79.1%

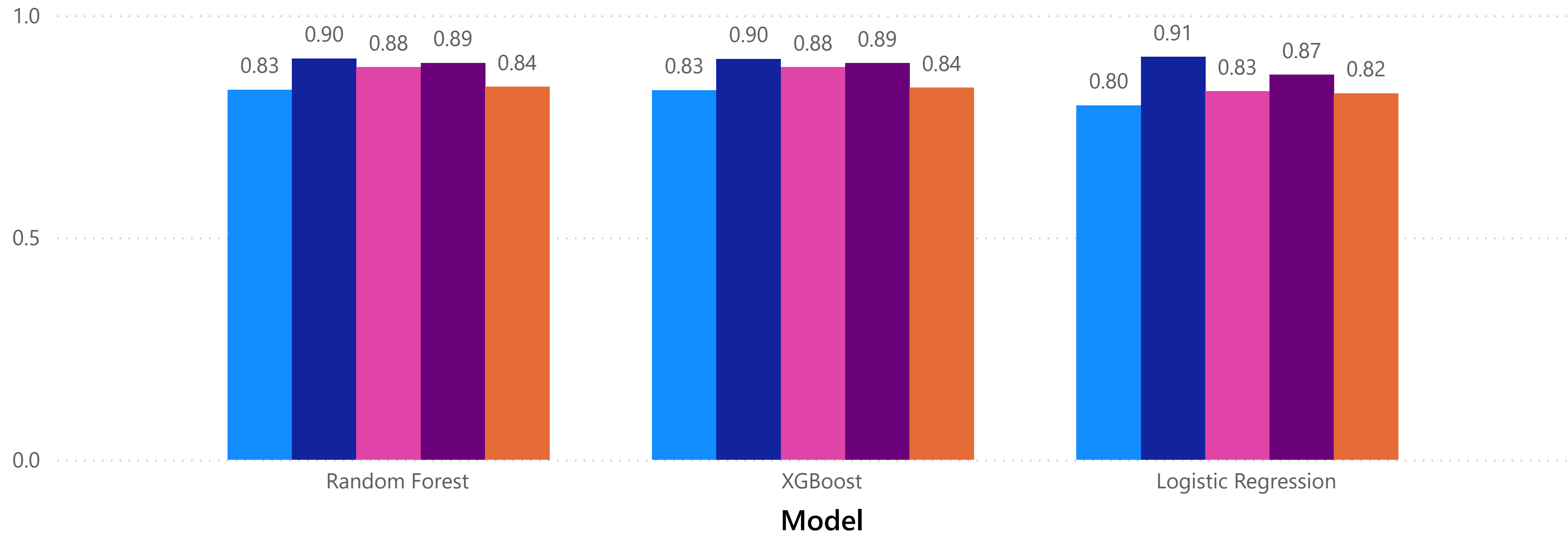
Overall Completion Rate

2,000

Test Set Trials

Model Performance Comparison

● Accuracy ● Precision ● Recall ● F1_Score ● ROC_AUC



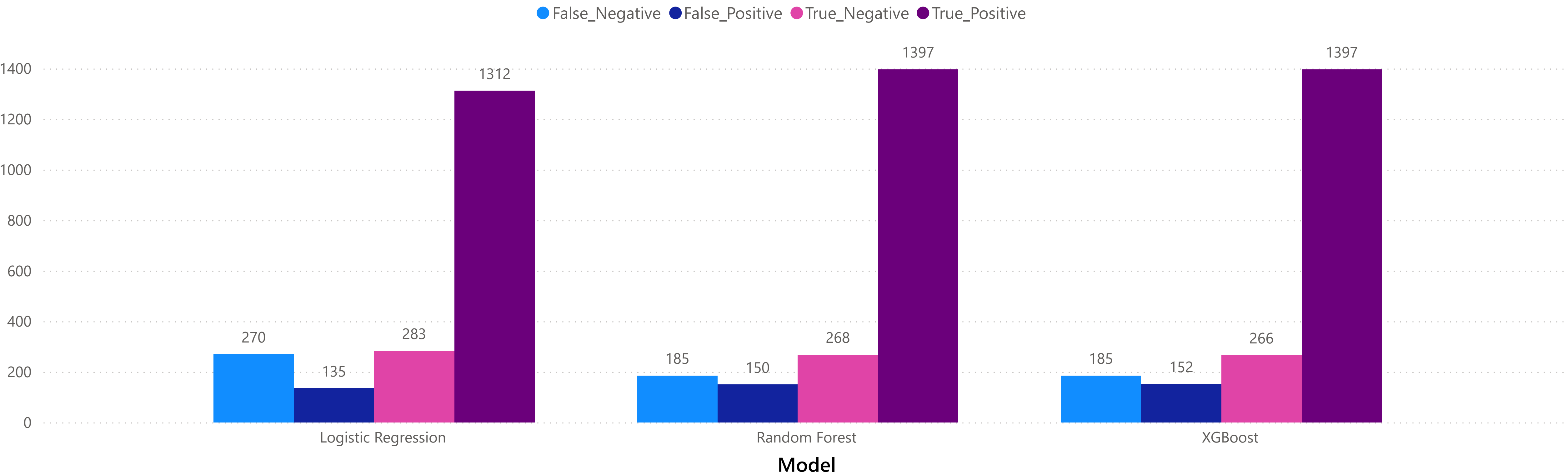
XGBoost achieves 83.15% accuracy, outperforming baseline by 3.4%. Model correctly identifies 83% of at-risk trials, enabling early intervention

Model Performance Deep Dive

Model	Accuracy	F1_Score	Precision	Recall	ROC_AUC
Random Forest	0.83	0.89	0.90	0.88	0.84
XGBoost	0.83	0.89	0.90	0.88	0.84
Logistic Regression	0.80	0.87	0.91	0.83	0.82

- Logistic Regression
- Random Forest
- XGBoost

Prediction Breakdown



Clinical Trials Dataset Overview

228

Avg Enrollment per Trial

1.3K days

Median Trial Duration

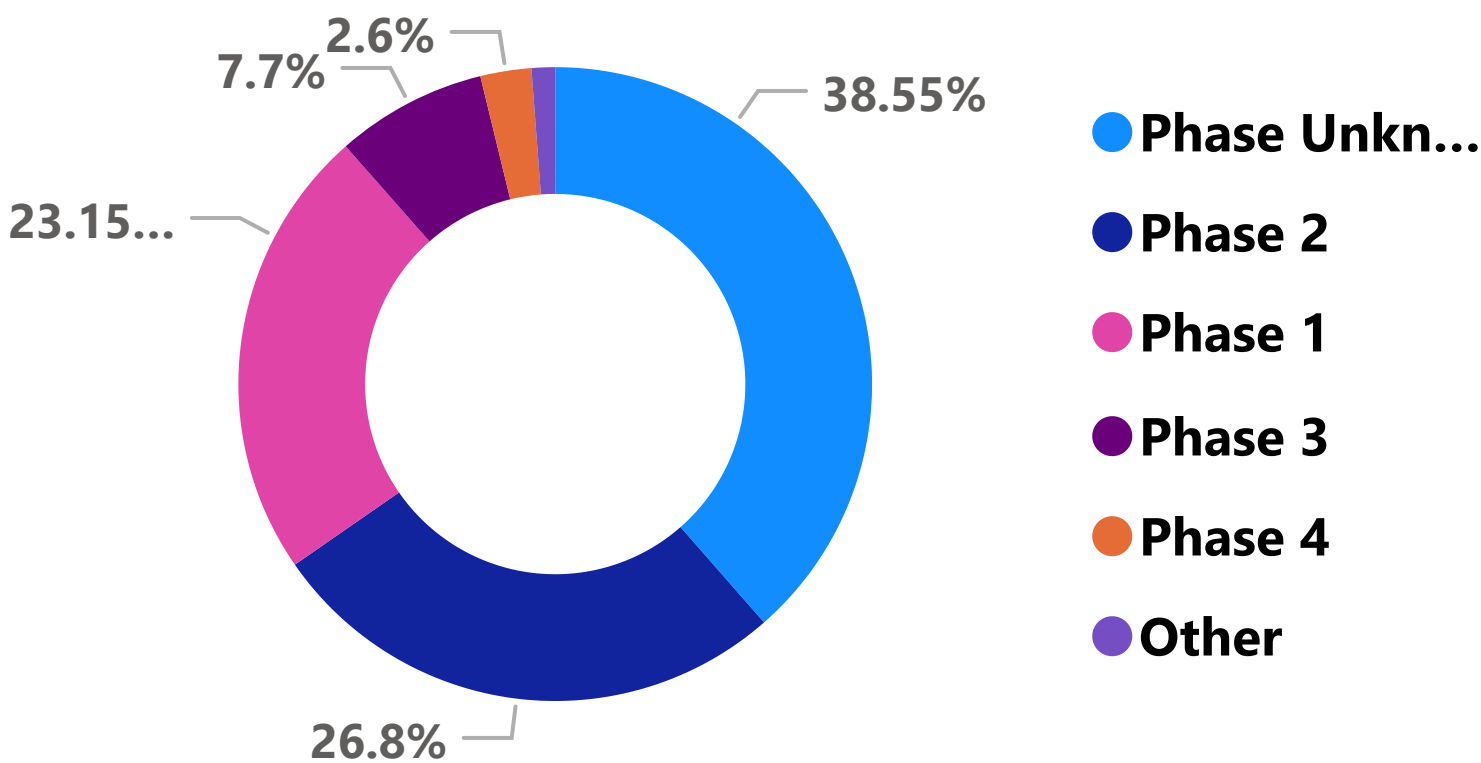
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Most Common Phase

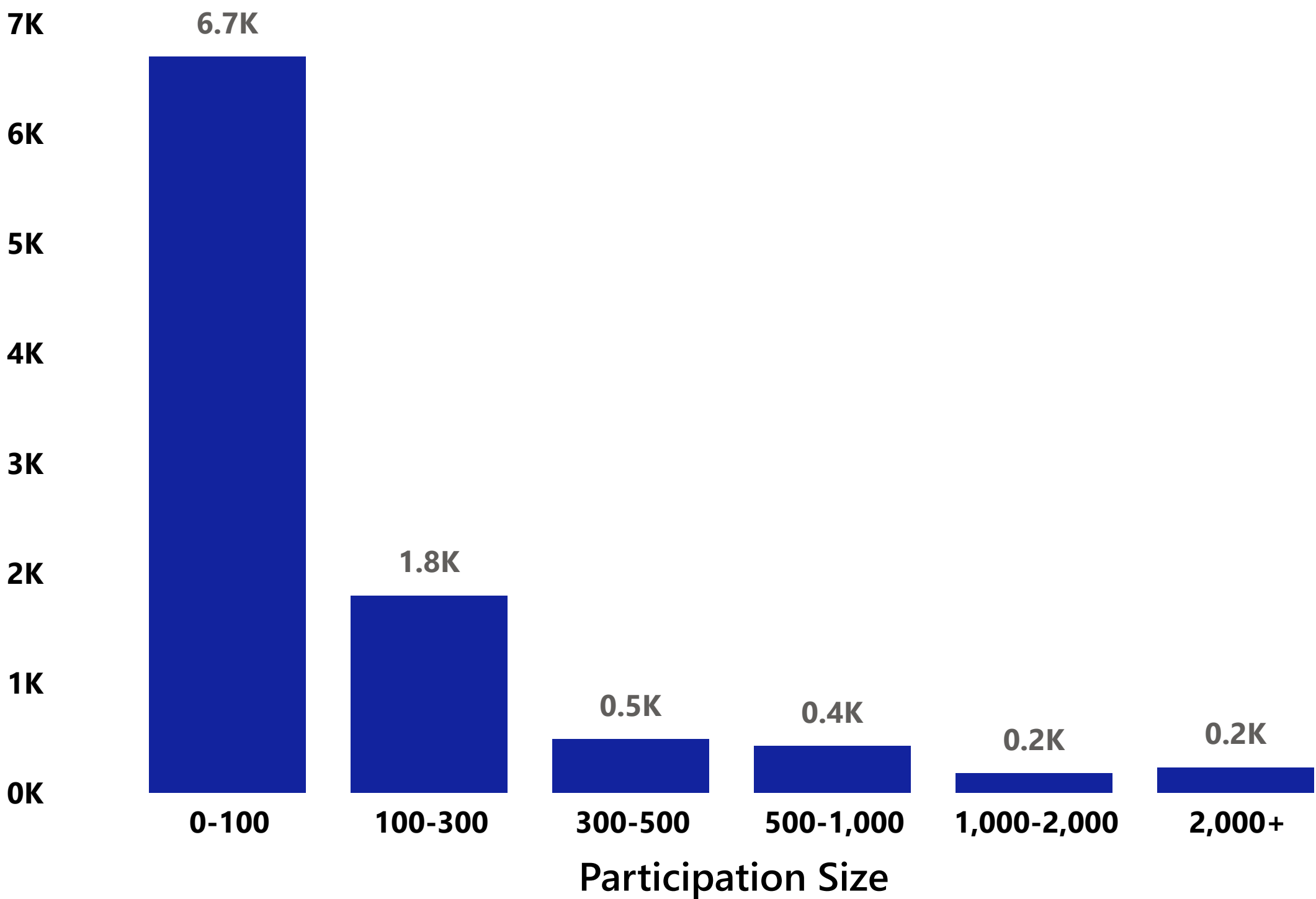
31.4%

Of Trials Were Large(>500 People)

Distribution of Trials By Current Phase



Distribution Of Trials By Number Of People Participating



67% of trials enroll <100 participants. Small trials show 2.3x higher termination rates, making enrollment the strongest predictor of trial success.

Focus recruitment efforts early to reach 500+ participants.