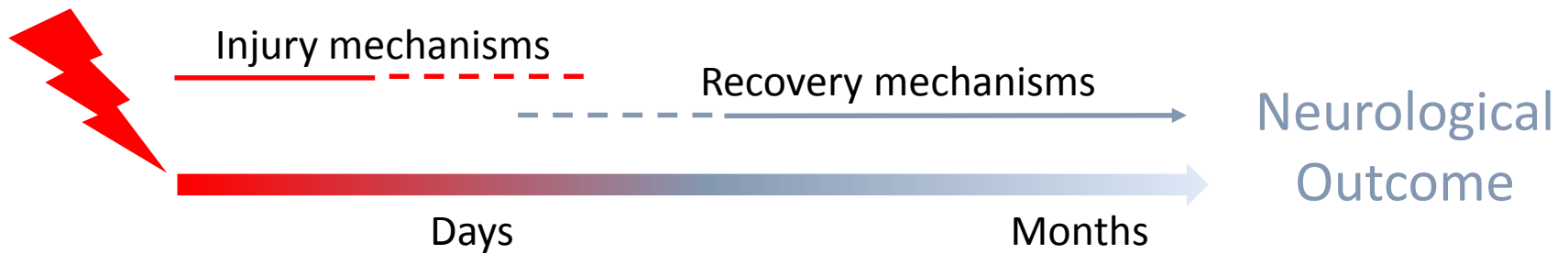


Baseline Stroke Severity

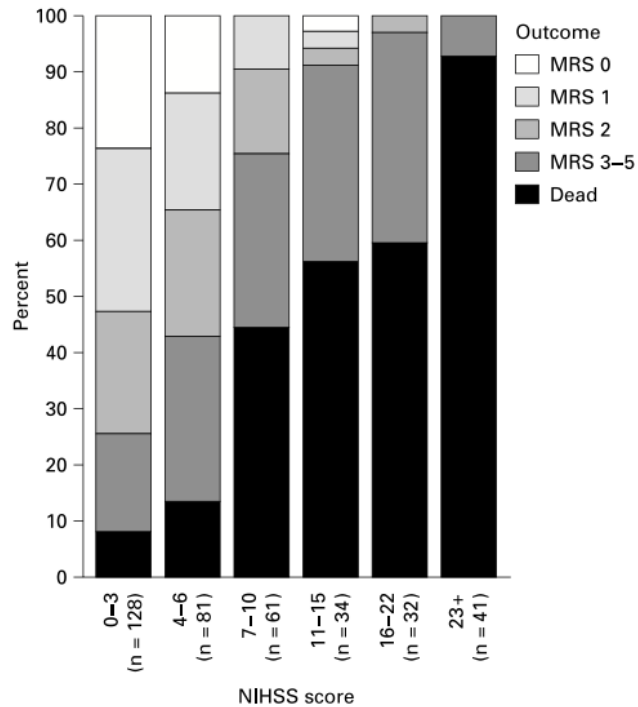
(Baseline NIHSS)

GISCOME Study Group

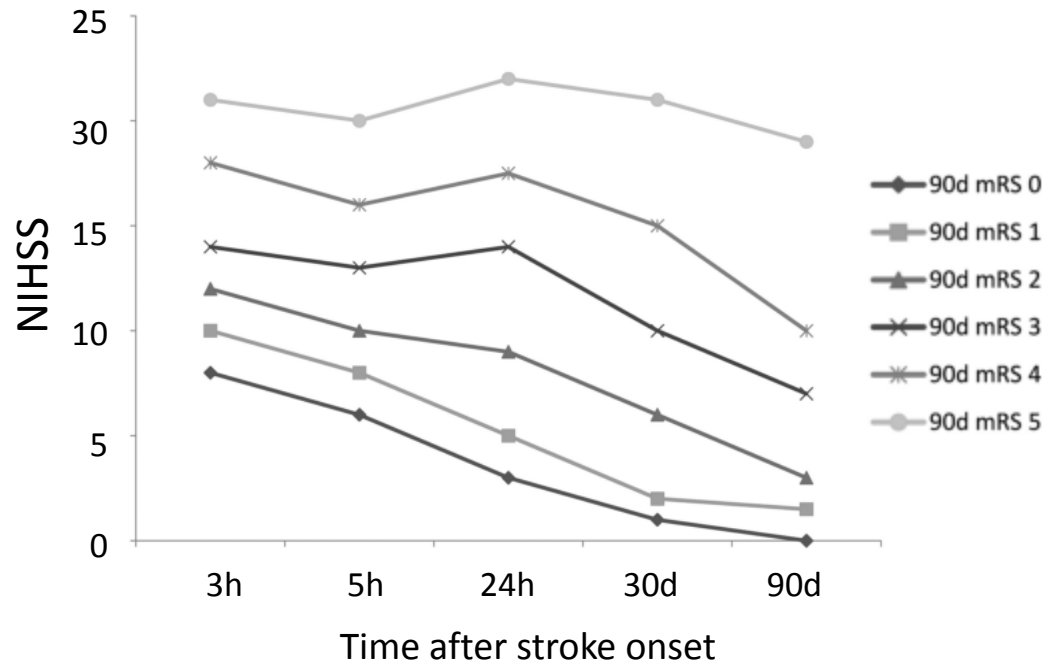
Acute Injury and Recovery



Baseline NIHSS and 90d mRS



Appelros & Terent, Cerebrovasc Dis, 2002



Saver & Altman, Stroke, 2012

NIHSS, time, and 90-d mRS

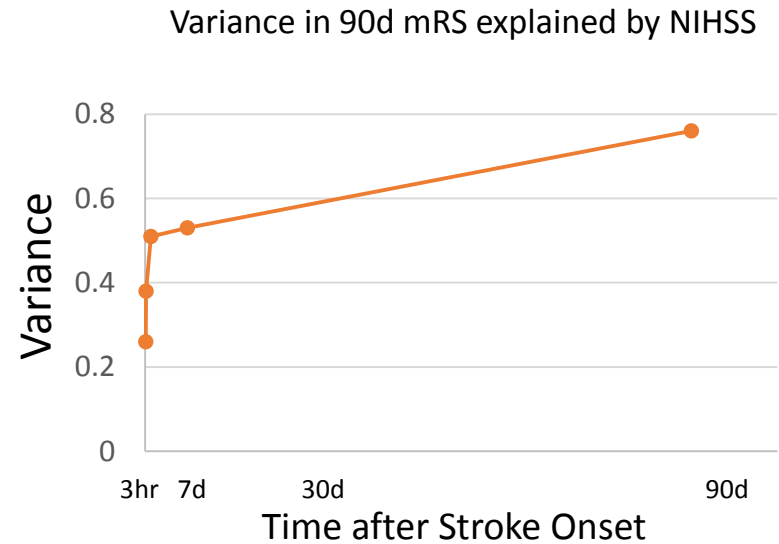
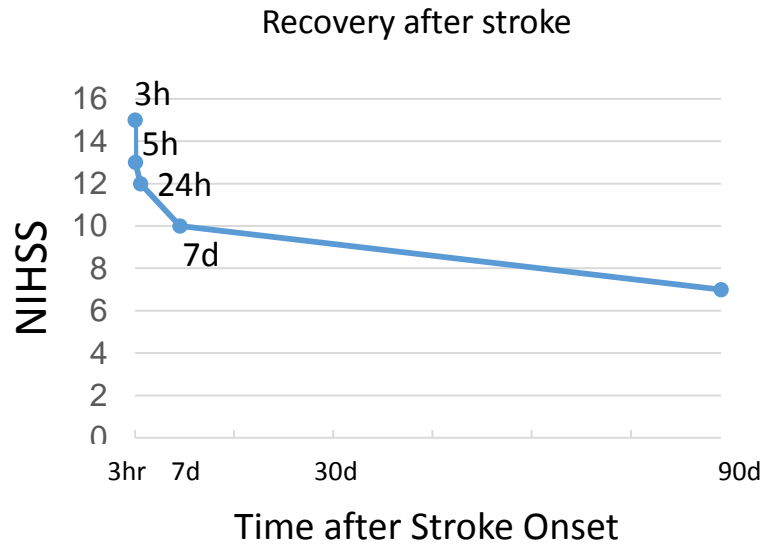


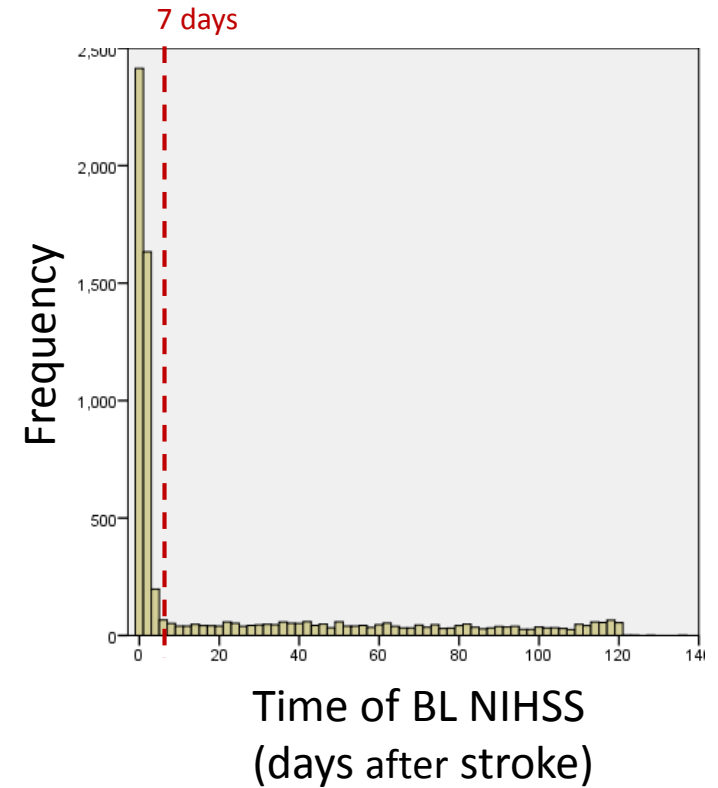
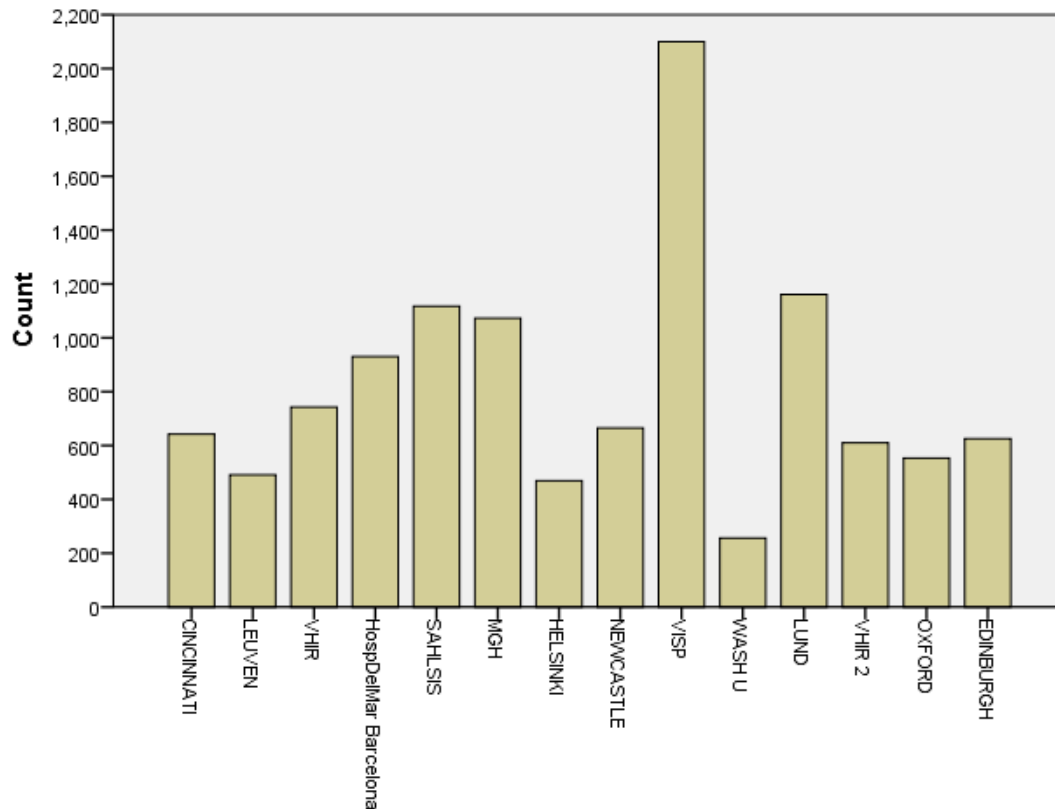
Table 1. Serial NIHSS Values and Predictive Power for Final Outcome, Control Group of NINDS Trials 1 and 2

	1 to 3 Hours	3 to 5 Hours	24 Hours	7 to 10 Days	90 Days
NIHSS median	15	13	12	10	7
NIHSS IQR	9.5–20	8–19	6–19	4–20	2–19
Correlation with final mRS (95% CI)	0.51 (0.42–0.59)	0.61 (0.54–0.68)	0.72 (0.66–0.77)	0.73 (0.67–0.78)	0.87 (0.84–0.89)
Variance in final mRS explained by NIHSS	0.26 (0.18–0.34)	0.38 (0.29–0.46)	0.51 (0.43–0.59)	0.53 (0.45–0.60)	0.76 (0.70–0.80)

NIHSS indicates National Institutes of Health Stroke Scale; IQR, interquartile range; mRS, modified Rankin Scale.

GISCOME DATA

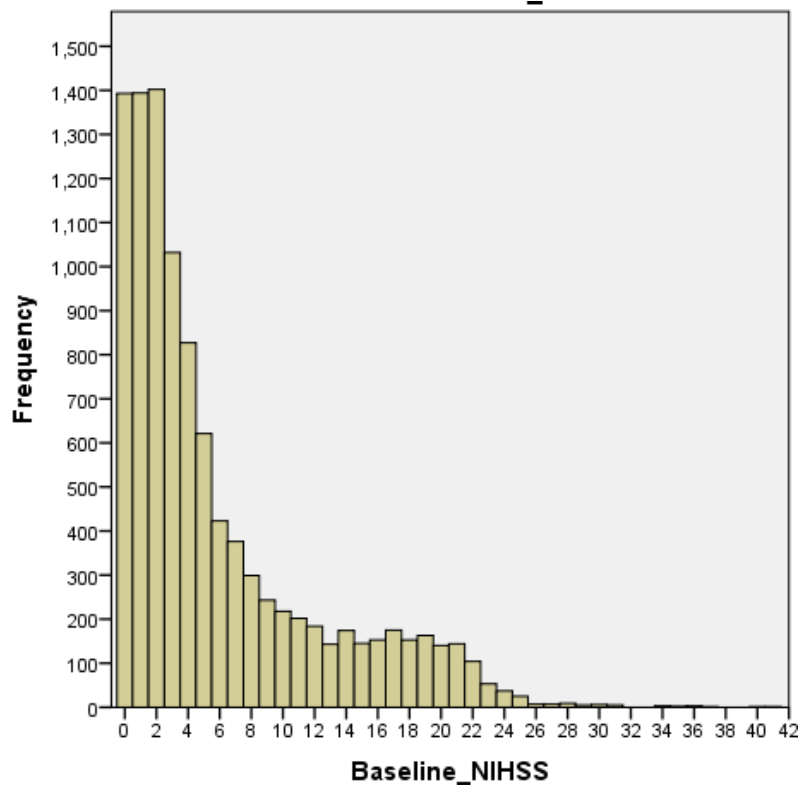
Timing of Baseline NIHSS



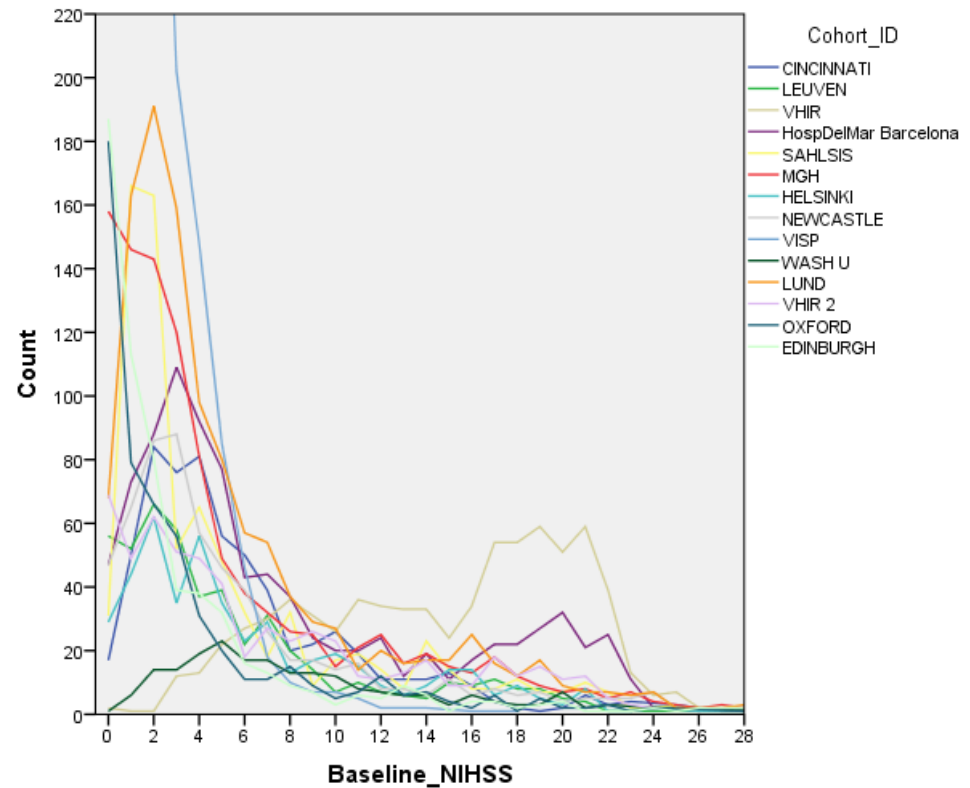
GISCOME DATA

Frequency distribution baseline NIHSS score

Total GISCOME Population



Individual Sites



GISCOME

Baseline NIHSS

- Baseline NIHSS is a major determinant of 90-day mRS
 - Severity
 - Time
- Data from different sites show some degree of heterogeneity
 - Timing of baseline NIHSS varies across sites
 - Frequency distribution of NIHSS severity differs across sites
- To minimize heterogeneity across sites:
 - Strict cut-off for baseline NIHSS within 7 days
 - Use time of BL NIHSS as covariate for genetic analysis
 - Use site as covariate for analysis