

Additional File 7: Table S4. Comparison of diagnostic accuracy of the tested scores stratified by age.

Subgroups	AUROC			Bootstrap comparisons			
	TRIAGES score	RTS	MGAP score	TRIAGES score versus RTS		TRIAGES score versus MGAP score	
				Difference [95%CI]	P	Difference [95%CI]	P
16-39 year old							
JTDB validation cohort (N=18,914)	0.965	0.963	0.957	0.002 [-0.001, 0.004]	0.212	0.008 [0.005, 0.011]	<0.001
CRASH-2 cohort (N=13,279)	0.821	0.823	0.778	-0.001 [-0.006, 0.004]	0.606	0.043 [0.034, 0.052]	<0.001
40-59 year old							
JTDB validation cohort (N=16,886)	0.949	0.945	0.940	0.004 [0.001, 0.008]	0.024	0.010 [0.006, 0.013]	<0.001
CRASH-2 cohort (N=4,781)	0.785	0.786	0.747	-0.001 [-0.011, 0.008]	0.785	0.038 [0.025, 0.051]	<0.001
60-79 year old							
JTDB validation cohort (N=25,665)	0.919	0.903	0.913	0.016 [0.012, 0.020]	<0.001	0.006 [0.003, 0.009]	<0.001
CRASH-2 cohort (N=1,293)	0.776	0.780	0.758	-0.003 [-0.019, 0.013]	0.688	0.019 [0.000, 0.038]	0.052
80+ year old							
JTDB validation cohort (N=15,297)	0.866	0.841	0.863	0.025 [0.018, 0.032]	<0.001	0.003 [-0.002, 0.008]	0.211
CRASH-2 cohort (N=130)	0.813	0.797	0.780	0.014 [-0.032, 0.067]	0.573	0.032 [-0.028, 0.093]	0.295

Point estimation with 95%CI and P-values of the metrics of score performance were computed by bootstrap estimation repeated for 20,000 times (800 times per each the dataset if bootstrapping was performed on multiply imputed datasets). AUROC, area under the receiver operating characteristics curve; TRIAGES score, trauma rating index in age, Glasgow Coma Scale, respiratory rate, and systolic blood pressure score; RTS, the revised trauma score; MGAP, mechanism, Glasgow Coma Scale, age and arterial pressure score; 95% CI, 95% confidence interval; JTDB, the Japan Trauma Databank; CRASH-2, Clinical Randomization of Antifibrinolytics in Significant Hemorrhage-2