

INDICATION

The Glasgow Coma Scale Pupil score is used in traumatic brain injury patients.  
Addition of the pupil component has additional utility in those with a severe brain injury and lower GCS.

INTERPRETATION

Score ranges from 1 to 15

SCORE	MORTALITY 6 MONTHS POST INJURY	MORBIDITY 6 MONTHS POST INJURY
1	74.45%	89.59%
2	64.62%	85.22%
3	40.92%	65.53%
4	39.47%	68.90%
5	32.57%	57.75%
6	24.97%	46.26%
7	19.17%	37.20%
8	20.04%	33.55%
9	18.75%	30.32%
10	17.35%	28.88%
11	11.60%	21.81%
12	9.43%	19.92%
13	7.07%	15.85%
14	5.64%	14.39%
15	2.54%	11.75%

CALCULATION

Total score = sum of scores for each question		
Best eye response opening	Spontaneously	+4
	To verbal command	+3
	To pain	+2
	No eye opening	+1
	Not assessable (trauma / oedema)	+1
Best verbal response	Orientated	+5
	Confused	+4
	Inappropriate words	+3
	Incomprehensible sounds	+2
	No verbal response	+1
	Intubated	+1
Best motor response	Obeys commands	+6
	Localises to pain	+5
	Withdrawal from pain	+4
	Flexion to pain	+3
	Extension to pain	+2
	No motor response	+1
Pupil response	Both pupils unreactive to light	-2
	One pupil unreactive to light	-1
	Both pupils reactive to light (normal)	+0