

# Glasgow Coma Scale Pupils Score

The [Glasgow Coma Scale Pupils Score](#) (GCS-P) was described by Paul Brennan, Gordon Murray, and Graham Teasdale in [2018](#) as a strategy to combine the two key indicators of the severity of [traumatic brain injury](#) into a single simple index.

Calculation of the GCS-P is by subtracting the Pupil Reactivity Score (PRS) from the Glasgow Coma Scale (GCS) total score:

$$\text{GCS-P} = \text{GCS} - \text{PRS}$$

The Pupil Reactivity Score is calculated as follows.

Pupils unreactive to light - Pupil Reactivity Score

Both pupils - 2

One pupil - 1

Neither pupil - 0

The GCS-P score can range from 1 and 15 and extends the range over which early severity can be shown to relate to outcomes of either mortality or independent recovery.

The GCS-P is a useful predictor of 30-day mortality, although its usefulness for other clinical outcomes remains to be proven <sup>1)</sup>.

<sup>1)</sup>

Maye H, Waqar M, Colombo F, Lekka E. External validation of the GCS-Pupils Score as an outcome predictor after traumatic brain injury in adults: a single-center experience. *Acta Neurochir (Wien)*. 2023 Feb;165(2):289-297. doi: 10.1007/s00701-022-05431-3. Epub 2022 Dec 9. PMID: 36484865.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

[https://neurosurgerywiki.com/wiki/doku.php?id=glasgow\\_coma\\_scale\\_pupils\\_score](https://neurosurgerywiki.com/wiki/doku.php?id=glasgow_coma_scale_pupils_score)

Last update: **2024/06/07 02:56**

