

keyword

spinal cord injury

BBB score

motor function

regenerative medicine products



Official website

Spinal cord injury model

Spinal cord disorders are neurological disorders in which the nerves passing through the spine are damaged for some reason, resulting in numbness, paralysis, pain, and other symptoms. This time, we will introduce a spinal cord injury model as an example of a traumatic disorder of the spinal nerves.

Test Method

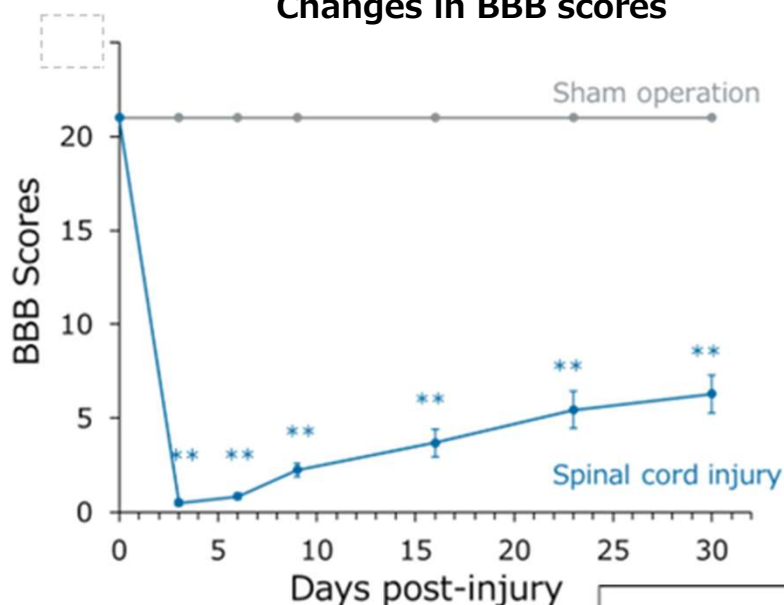
Animals used: Mice (nude rats can also be used)

Preparation method: The skin of the dorsum is incised under anesthetized conditions, the fascia is separated, and the spinal cord is exposed. The spinal cord is separated from the surrounding tissues so as not to damage the spinal cord. The spinal cord from the 12th thoracic vertebra to the 1st lumbar vertebra is clamped.

Evaluation and Results

Evaluation method: Motor function assessment (BBB score) (BBB: Basso-Beattie-Bresnahan)

Changes in BBB scores



Each point represent the mean $\pm$ S.E.
**: $P < 0.01$, vs Sham operation (n=8)

Results

Low BBB scores were observed until 30 days after model creation.