Optic nerves of anesthetized adult Sprague Dawley rats were surgically exposed ~~surgically in anaesthetized adult Sprague Dawley rats through~~ using a supraorbital approach and were crushed using ~~the~~ an aneurysm clip (YASARGIL) ~~aneurysm clip~~, which was placed 2 mm behind the posterior eye pole, as described ~~in~~ previous-ly~~reports~~. Using a transscleral approach, ~~C~~cultured neural stem cells (NSCs) were transplanted into the subretinal space immediately after crushing the optic nerve ~~crush using a transscleral approach~~. A 33-~~gauge~~ G blunt needle attached to a 10-µL syringe (Hamilton, Reno, NV) was ~~introduced~~ tangentially introduced through the sclerotomy site into the subretinal region, causing retinal detachment, which was ~~. The retinal detachment was confirmed~~ microscopically confirmed. The same procedure was ~~then~~ repeated to slowly inject a suspension of pigment epithelium-derived factor (PEDF)-modified NSCs (2 µL of 2.0 ~~×~~ × 10^5 cells). In this study, 72 rats with~~under going~~ optic nerve injury were randomly assigned to ~~3~~ three groups: ~~group with~~ receiving ~~injections of~~ phosphate-buffered saline (PBS) injections (n = 24), receiving ~~, group with~~ weekly ~~injections of~~ PEDF injections (n = 24), and receiving ~~, and group with~~ PEDF-modified NSCs (n = 24). Subsequently, 0.67 nM of PEDF dissolved in 5 µL of sterile PBS was injected immediately after the optic nerve was crushed (day 0 ~~days~~) and at 1 and 2 ~~1week and 2~~ weeks thereafter. ~~The~~ All rats ~~(from each group)~~ were examined at each ~~of the~~ time point after ~~s post~~ injection (2 ~~or~~ and 4 weeks). At each time point, ~~S~~samples were harvested and placed ~~at each time point~~ into a protein extraction buffer. Equal amounts of protein were denatured for 5 min~~utes~~ at 95 °C in a sample buffer and were separated by sodium dodecyl sulfate polyacrylamide gel electrophoresis~~sodium dodecyl sulfatepolyacrylamide gel electrophoresis (SDSPAGE)~~.

Comment [A1]: Abbreviations are generally defined at their first use in the text, and the abbreviated form is consistently used thereafter.

Comment [A2]: In academic writing, information is presented with accuracy and conciseness. One way to ensure conciseness is by combining two smaller into one.

Comment [A3]: Generally, two or more words that come before a noun they modify and act as a single idea are hyphenated to ensure the idea is communicated clearly.

Comment [A4]: Spaces are generally inserted before and after arithmetic symbols.