The Efficacy of a Neuroscience-Based Nursing Education Protocol in Improving Clinical Knowledge Retention and Transfer Among Undergraduate Nursing Students

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Background: This study examined whether a neuroscience-based nursing education protocol improves clinical knowledge retention and transfer in undergraduate nursing students.

Methods: In this quasi-experimental study, 80 nursing students at Zahedan University of Medical Sciences were assigned to intervention and control groups. The intervention group received five weekly 70-minute neuroscience-based sessions; the control group received conventional education.

Results: Retention scores increased significantly from 3.9±6.42 to 5.8±1.75 (P<0.001), and knowledge transfer improved by approximately 50% (P=0.002).

Conclusion: Neuroscience-based nursing education can effectively enhance clinical knowledge retention and transfer.

Keywords: Neuroscience, Retention, Knowledge Transfer, Clinical Learning, Nursing Studen