

# Neuroscience Nursing: Integrating Science with Compassion in Patient Care

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## Introduction

Neuroscience nursing is a specialized field that requires a deep understanding of the intricate workings of the nervous system and the ability to provide compassionate care to patients facing neurological disorders or injuries. In this article, we explore the crucial role of neuroscience nursing in bridging science with compassion to deliver high-quality patient care. This article aims to explore the multifaceted role of neuroscience nursing in patient care, highlighting how these dedicated professionals bridge the realms of science and compassion to deliver comprehensive care [1,2].

## Description

### Neuroscience and the science nursing

Neuroscience nursing encompasses the care of patients with various neurological conditions, including stroke, traumatic brain injury, spinal cord injury, epilepsy, neurodegenerative diseases, and more. Nurses in this field must possess a solid foundation in neuroanatomy, neurophysiology, and neuropharmacology to effectively assess, diagnose, and manage complex neurological conditions. Neuroscience nursing requires a deep understanding of the complex structure and function of the nervous system. One of the primary responsibilities of neuroscience nurses is conducting comprehensive neurological assessments to monitor patients' neurological status, including assessing consciousness level, motor and sensory function, cognition, and cranial nerve function. These assessments help nurses detect changes in patients' conditions promptly and implement appropriate interventions. Nurses in this field must be knowledgeable about various neurological conditions, including stroke, epilepsy, Parkinson's disease, multiple sclerosis and spinal cord injuries. They play a vital role in assessing patients' neurological status, monitoring vital signs and identifying changes in condition that may require immediate intervention [3].

### Compassion in challenging situations

Furthermore, neuroscience nurses often collaborate with neurologists, neurosurgeons and other healthcare professionals to develop and implement individualized care plans for patients. This interdisciplinary approach ensures that patients receive comprehensive treatment tailored to their specific needs. Beyond their scientific expertise, neuroscience nurses also bring compassion and empathy to their practice. Many patients with neurological disorders face significant challenges, including physical disabilities, cognitive impairments

and emotional distress. Neuroscience nurses provide not only medical care but also emotional support to help patients cope with the psychological impact of their conditions. In addition to assessment, neuroscience nurses play a critical role in the management of neurological emergencies, such as ischemic or haemorrhagic stroke. They are trained to recognize stroke symptoms quickly and initiate time-sensitive interventions, such as administering thrombolytic therapy or coordinating rapid transfer to specialized stroke centers for advanced care. These dedicated professionals often form strong bonds with their patients and their families, serving as advocates and allies throughout their healthcare journey. They take the time to listen to patients' concerns, address their questions and provide reassurance during times of uncertainty. By offering holistic care that addresses both the physical and emotional aspects of illness, neuroscience nurses play a vital role in enhancing patients' overall well-being.

Neuroscience nurses have a wide range of responsibilities aimed at promoting the best possible outcomes for their patients. Some of their key duties include: Conducting thorough assessments to evaluate patients' neurological status, including motor function, sensation, cognition and cranial nerve function. Administering medications as prescribed by healthcare providers, monitoring for side effects and educating patients about their medications and potential interactions. Assisting patients with activities of daily living, coordinating rehabilitation services and providing guidance on adaptive strategies to promote independence and improve quality of life. Providing education to patients and their families about neurological conditions, treatment options and strategies for symptom management and prevention. Serving as advocates for patients' needs and preferences, ensuring that their voices are heard and their rights are respected throughout the healthcare process [4].

Beyond their clinical expertise, neuroscience nurses serve as advocates and sources of emotional support for patients and their families. Coping with a neurological diagnosis can be overwhelming for patients and their loved ones, and nurses play a pivotal role in providing education, guidance, and reassurance throughout the healthcare journey. By fostering open communication and empathy, neuroscience nurses help alleviate anxiety and promote a sense of empowerment among patients and families. While neuroscience nursing requires a strong foundation in science and technical skills, it is equally essential to approach patient care with compassion and empathy. Patients facing neurological challenges often experience physical limitations, cognitive changes, and emotional distress, making it essential for nurses to provide holistic care that addresses their unique needs and concerns [5,6].

## Conclusion

Neurological health is a dynamic and rewarding profession that requires a unique blend of scientific knowledge, clinical skills and compassionate care. As the field continues to evolve, these dedicated professionals will remain essential partners in promoting neurological health and well-being for patients around the world. By integrating the latest evidence-based practices with a humanistic approach to patient care, neuroscience nurses make a profound difference in the lives of individuals affected by neurological disorders and injuries. As champions of science and advocates for compassion,

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neuroscience nurses exemplify the essence of holistic patient-centered care in the field of nursing.

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## Acknowledgement

None.

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## Conflicts of Interest

None.

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## References

1. Jourjine, Nicholas and Hopi E. Hoekstra. "Expanding evolutionary neuroscience: Insights from comparing variation in behavior." *Neuron* 7 (2021): 1084-1099.
2. Brenowitz, Eliot A. and Harold H. Zakon. "Emerging from the bottleneck: benefits of the comparative approach to modern neuroscience." *TINS* 5 (2015): 273-278.
3. Yartsev, Michael M. "The emperor's new wardrobe: Rebalancing diversity of animal models in neuroscience research." *Sci* 6362 (2017): 466-469.

4. Ohl, Frauke and Franck Meijboom. "Ethical issues associated with the use of animal experimentation in behavioral neuroscience research." *Ethical Issues in Behavioral Neuroscience* (2015): 3-15.
5. Juntti, Scott. "The future of gene-guided neuroscience research in non-traditional model organisms." *Brain Behav Evol* 93 (2019): 108-121.
6. Chauhdry, Hayley. "Understanding the importance of recognising, treating and preventing stroke." *Nurs Rep* 37 (2021): 77-82.

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