

Delirium: A Nurse's Primer

Delirium Work Group 2016



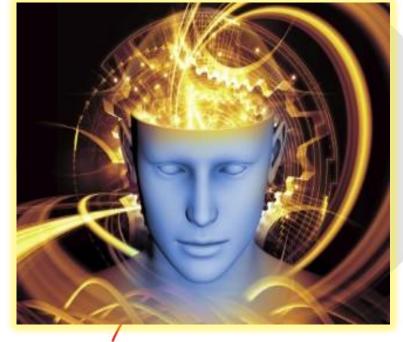
Objectives

- 1. Define delirium and its outcomes.
- 2. Discuss the importance of the RN's role in preventing, identifying, and intervening with delirium.
- 3. Describe ANA's interest in delirium.



Define Delirium

- Delirium is a serious medical condition, that is preventable in a substantial number of cases ^{1,2}
- A symptom of acute brain dysfunction
 - Disturbance of consciousness
 - Inattention
 - Disorientation
 - Change in cognition
 - Hallucinations, illusions and delusions
 - Decrease in short-term memory
 - Develops over hours to days
 - Fluctuates over time





Subtypes of Delirium

Hypoactive

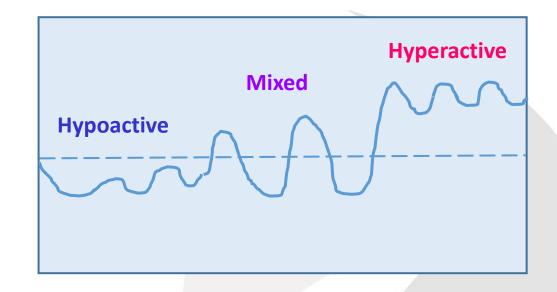
- Least recognized
- Apathy
- Lethargy
- Sedate

Hyperactive

- Most recognized
- Restlessness
- Agitation
- Combativeness

Mixed

Fluctuating periods of both





Delirium Occurs in Many Populations

Occurs in multiple populations, including pediatrics, and:

- 60-80% of mechanically ventilated ICU patients³
- 20-50% of non-ventilated ICU patients⁴
- 5-50% of elderly patients following surgery⁵
- Up to 90% of patients with advanced cancer (last days and hours of life)⁶



Call to Action

Delirium is <u>not</u> inevitable!

- Reversible
 - Timely recognition
 - Removal/reduction of cause(s)
 - Appropriate treatment
- The most effective delirium reduction strategies are:
 - Prevention⁷
 - Risk modification⁸



Delirium Impacts Patient Outcomes

- ↑ likelihood of **mortality**9by 10% for each day delirium persists10
- **↓quality of life** for patients and their families
- ↑ short and long-term negative effects on patients' functional and cognitive levels¹¹
- ↑ likelihood of **long-term cognitive loss**¹²
- ↑ ICU and hospital length of stay
- ↑ post-hospital institutionalization
- ↑ healthcare costs



RNs Make a Difference: The Nurse's Role

- Screen Patients for
 - Risk Factors
 - Precipitating Factors
- Institute **Prevention** Strategies
- Assess for and Recognize Delirium
- Implement Prompt and Appropriate Intervention
 - Non-pharmacological
 - Pharmacological



Why is ANA involved?

- Nursing excellence through ethics, standards, and <u>best practices</u>
- Improve quality of patient care
- Member interest
- Expand ANA resources
- Topic of interest to all nurses in multiple settings





ANA's Delirium Work

- Collaboration with American Delirium Society
- Creation of steering committee and delirium work group
- Delirium survey of ANA members
- Website and resources



American Delirium Society

- Collaborating with ANA
- Members of the Steering Committee
- Society was incorporated in 2010
- Goals: research, education, quality improvement, advocacy & implementation science to minimize the impact of delirium on patients¹³

Source: American Delirium Society https://www.americandeliriumsociety.org/





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References

- 1. Inouye, S.K., Bogardus, S.T., Charpentier, P.A., Leo-Summers, L., Acampora, D., Holford, T.R., & Cooney, L.M. (1999). A multicomponent intervention to prevent delirium in hospitalized older patients. *The New England Journal of Medicine*, 340 (9), 669-676.
- 2. Hshieh, B.A., Yue, J., Oh, E., Puelle, M., Dowal, S., Travison, T., & Inouye, S.K. (2015). Effectiveness of multicomponent nonpharmacological delirium interventions. *Journal of American Medical Association Internal Medicine*. 175, (4), 512-520. Doi:10.1001ka,aomterm,ed/2014.7779
- 3. Brummel, N.E., Jackson, J.D., Girard, T.D., Pandaripande, P.P., Schiro, E., Work, B., Pun, B.T., Boehn, L., Gill, T.M., & Ely, E.W. (2012). A combined early cognitive and physical rehabilitation program for people who are critically ill: The activity and cognitive therapy in the intensive care unit (ACT-ICU) trial. *Physical Therapy*, 92(12), 1580-1592.
- 4. Lin, S.M., Liu, C.Y., Wang, C.H., Lin, H.C., Huang, C.D., Huang, P.Y., Fang, Y.F., Shieh, M.H., & Kuo, H.P. (2004). The impact of delirium on the survival of mechanically ventilated patients. *Critical Care Medicine*, *32*(11), 955-962.



References

- 5. The American Geriatrics Society Expert Panel on Postoperative Delirium in Older Adults. (2014). Postoperative delirium in older adults: Best practice statement from the American Geriatrics Society. *Journal of the American College of Surgeons*, 220(2), 136-148.e1
- 6. Lawlor, P.G., Gagnon, B., Mancini, I.L., Pereira, J.L., Hanson, J., Suarez-Almazor, M.E., & Bruera, E.D. (2000). Occurrence, causes, and outcome of delirium in patients with advanced cancer: A prospective study. *Archives of Internal Medicine*, *160*(6), 786-794.
- 7. Rivosecchi, R.M., Smithburger, P.L., Svec, S., Campbell, S., & Kane-Gill, S.L. (2015). Nonpharmacological interventions to prevent delirium: An evidence-based systematic review. *Critical Care Nurse*, *35*(1), 39-51.
- 8. Pun. B.T., & Ely, E.W. (2007). The importance of diagnosing and managing ICU delirium. *Chest*, *132*(2), 624-636.
- 9. Ely, E.W., Shintani, A., & Truman, B. (2004). Delirium as a predictor of mortality in mechanically ventilated patients in the intensive care unit. *Journal of American Medical Association*, 291(14), 1753-1762.



References

- 10. Pisani, M.A., Kong, S.Y.J., Kasl, S.V., Murphy, T.E., Araujo, K.L., & Van Ness, P.H. (2009). Days of delirium are associated with 1-year mortality in an older intensive care unit population. *American Journal of Respiratory Care Medicine*, 180(11), 1092-1097.
- 11. Khan, B.A., Zawahiri, M., Campbell, N.L., Fox, G.C., Weinstein, E.J., Nazir, A., Farber, M.O., Buckley, J.D., MacLullich, A., & Boustani, N.A. (2012). Delirium in hospitalized patients: Implications of current evidence on clinical practice and future avenues for research A systematic evidence review. *Journal of Hospital Medicine*, 7(7), 580-589.
- 12. Girard, T.D., Jackson, J.C., Pandharipande, P.P., Pun, B.T., Thompson, J.L., Shintani, A.K., Gordon, S.M., Canonico, A.E., Dittus, R.S., Bernard, G.R., Ely, E.W. (2010). Delirium as a predictor of long-term cognitive impairment in survivors of critical illness. *Critical Care Medicine*, 38(7), 1513-1520.
- 13. American Delirium Society. *About ADS.* Retrieved 3/13/16. https://www.americandeliriumsociety.org/



Additional References

- AACN. *Delirium assessment and management*. Retrieved 3/13/16. http://www.aacn.org/wd/practice/content/practicealerts/delirium-practicealert.pcms?menu=practice
- Medline Plus. *Delirium*. Retrieved 3/13/16. https://www.nlm.nih.gov/medlineplus/delirium.html
- Medline Plus. Frontotemporal disorders: Information for patients, families, and caregivers. Retrieved 3/13/16. https://www.nia.nih.gov/alzheimers/publication/frontotemporal-disorders/common-symptoms



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