## **ROI of Noise Reduction and Delirium** in the Intensive Care Unit (ICU)



#### Delirium

A disturbance of consciousness and cognition that develops over a short period of time.

(APA) Diagnostic and Statistical Manual of Mental

ICU Patients with delirium experience...

- Longer length of stay
- Lower 6-month survival rate
- Cognitive impairment that persists months to years after discharge
- Additional cost to the hospital of \$14,730 per ICU patient with delirium

- Journal of Critical Care Medicine. 2004 Apr;32(4):955-62.

"The prevalence of delirium reported in medical and surgical ICU cohort studies has varied from

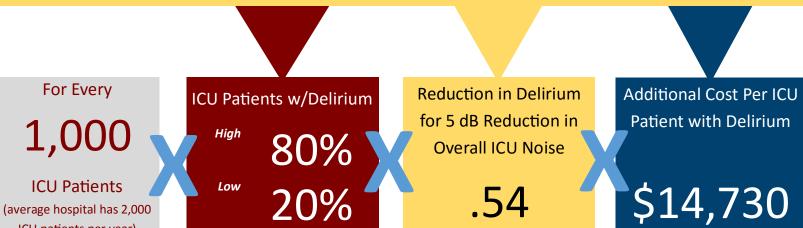
# **20% to 80%**

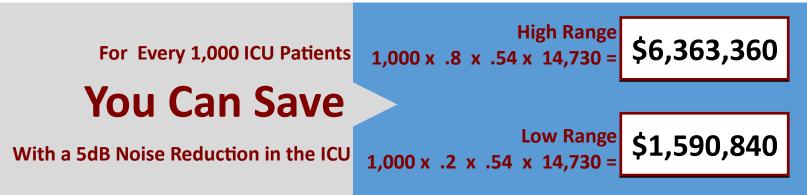
depending upon severity of illness observed and diagnostic methods used."

- Journal of Critical Care Medicine. 2008; 12(Suppl 3): S3.

### A 5dB reduction of noise in the ICU resulted in a reduction of delirium by 54%.

- Journal of Critical Care Medicine. 2013 Mar;41(3):800-9





### Quietyme Reduces Noise in the ICU by More Than 5 dB

2015 University of Michigan Health System Study Presented at PAS Conference May 2, 2016 Baltimore, MD

Quietyme Annual Cost in ICU = \$9,000 Avg. Hospital Savings = \$12.7 million ROI = \$12,691,000 = 1,400X



sales@quietyme.com

www.quietyme.com