Potentially Better Practices to Wean From Respiratory Support

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Dr. Gray, Associate Professor of Pediatrics, Harvard Medical School, is a board-certified neonatologist as well as a faculty member of Harvard’s Division of Clinical Informatics and Division of Newborn Medicine. He is Associate Director of the Neonatal Intensive Care Unit at Beth Israel Deaconess Medical Center as well as the Director of Patient Safety Research within the Division of Clinical Informatics. Dr. Gray has extensive experience with the evaluation of neonatal care and the integration of evolving information technologies into the assessment and provision of care. He has developed methods for performing cross-institutional comparisons of NICU outcomes, as well as for performing large-scale evaluations of public health programs. He has developed cutting edge uses of information technologies to be used in neonatal intensive care. He developed and evaluated Baby CareLink, a multi-faceted telemedicine program designed to provide individualized information and support to high-risk newborns and their families. Dr. Gray's current research focuses on the use of computer based methods to study complex operational systems within healthcare. He has developed methods to assess deployment strategies for new technologies and is the architect of the technologies used in StaffLynx, a new computer-based approach to creating and maintaining clinician assignments.

Annual Quality Congress Breakout Session, Sunday, October 4, 2015
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Objective: Discuss 3 potentially better practices that teams can consider to improve the process of weaning from respiratory support.
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Our Goals…Status 10/2013

Clinical Aim
Decrease Chronic Lung Disease by 10 - 20%
• down 15% (2012 vs 2010)

Value Aims
Ventilator days
• 9.3 days less ventilator days/VLBW infant
Surfactant use

Time to first hold

Dr. Gray has no conflicts to disclose
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Please silence your cell phones…But take them out we’ll use them.

- Invasive Ventilation
- CPAP
- Nasal Cannula

Invasive ventilation
- INSURE
- Extubation readiness trials
- Weaning guidelines
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CPAP
- Duration of treatment
- Criteria for trials off

Nasal Cannula O2
- Estimating FiO2
- Standardization of NC use
- Approach to weaning

Selected References

Selected References (continued)