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Oxygen Targets in 2026: Lessons Learned and the Road Ahead

Internet Enduring Material
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Content was originally presented as part of NEO: The Conference for Neonatology on February 25, 2026.

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Time to Complete

The estimated time for completion of this Internet Enduring Material is 50 minutes.

Target Audience

This presentation is intended for physicians, advanced practice providers, and other clinicians practicing within the Neonatology specialty.

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Disclosure of Relevant Financial Relationships

Waldemar A. Carlo, MD, faculty for this educational activity, has the following relevant financial relationships with ineligible companies to disclose: Grant or research support-National Institutes of Health. *FDA Disclosure(s):* none reported.
Timothy Biela, MD, Nicole Brenson and Jaya Sariga, NNP-BC, planners of this educational activity, have no relevant financial relationships with ineligible companies to disclose.

Commercial Support

There is no commercial support for this enduring educational activity. *Please note: the content of this activity was originally presented at NEO: The Conference for Neonatology on February 27, 2026, which was supported in part, through a medical education grant from Mead Johnson Nutrition.*

Overview

This activity addresses a persistent professional practice gap in the oxygen saturation targeting of extremely preterm infants, where variation in target ranges and alarm limits continues despite high-quality randomized evidence. The presentation will review the state of the science preceding the saturation trials; present the design and outcomes of the SUPPORT trial; and examine the NeOProM prospectively planned individual participant data meta-analysis of five harmonized randomized trials. Particular attention will be given to the discrepancy between achieved and targeted saturations, subsequent observational cohort data, and recent trial evidence on automated closed-loop oxygen control, so that learners can distinguish evidence-based recommendations from untested practice. Upon completion, participants should be better able to interpret the trial and meta-analytic evidence on oxygen saturation targets and identify populations for which the evidence remains insufficient and further trials are needed.

Objectives

At the conclusion of this activity, the participant will be able to:

- Describe the evidence from The SUPPORT Oxygen Saturation Trial and other partner trials, individual participant meta-analysis, and subsequent related studies and publications.
- Discuss how to translate the findings into daily practice.

ACGME/ABMS Competencies

- Patient Care and Procedural Skills
- Medical Knowledge
- Practice-Based Learning and Improvement

IOM Competencies

- Provide Patient-Centered Care
- Work in Interdisciplinary Teams
- Employ Evidence-based Practice
- Apply Quality Improvement

Participation and Credit

Participants are expected to review all content in the video, access reference materials as needed for additional self-directed learning, take and score 75% or greater correct on the post-test, and complete the evaluation in order to earn *AMA PRA Category 1 Credit(s)*™, or nursing contact hour(s).

There are no fees for participating in or receiving credit for this online educational activity. For information on the applicability and acceptance of credit for this activity, please consult your professional licensing board.

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