

## Neonatology Survey of Interdisciplinary Groups in Healthcare Tool (NSIGHT) Development Project

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Thank you for participating in this survey. The NSIGHT is a vignette-based survey used to generate a 'heat map' of preferences for care practices among your NICU team. In this case we are interested in respiratory care practices. This should allow for identification of practices on which there is agreement and practices on which substantial variability exists, which could help identify opportunities for improvement.

A quality improvement group at Beth Israel Deaconess Medical Center (BIDMC) designed the survey. The project has been determined to be exempt as "not human subjects research," by the BIDMC internal review board (IRB). In some situations in which unit leadership deemed it necessary, the IRB at your institution has also reviewed and approved the use of this survey.

TO COMPLETE THE SURVEY: Each scenario describes a patient requiring some form of respiratory support and two options for further treatment. Both options are meant to be reasonable and appropriate. Assume that you are the SOLE decision-maker about the treatment of the patient. Consider the scenario and then indicate your personal preference between the two options. If you favor one of the treatments over the other, mark accordingly. If you have no preference between the two practice choices, meaning you think both are equally reasonable, then mark 'neutral.' If you cannot answer for any reason, perhaps due to lack of information in the scenario or if you're not familiar with the treatment options, then mark 'unable to answer.'

PLEASE NOTE: THERE ARE NO "RIGHT" ANSWERS! This is NOT a test of competence or knowledge. Rather, questions are designed such that both choices would be appropriate approaches to care, and it would be reasonable to favor either one. The goal is only to identify variations in practice preferences.

All answers are ANONYMOUS - we ask for only your role in the NICU. We will NOT link anyone's answers to their identity.

**Please submit the survey only once per person.**

THANK YOU!

**Note: When ventilator settings are included below, they are written as PIP/PEEP x Rate.**

**An infant is born at 24 3/7 weeks gestation with birth weight 550 grams following a full course of antenatal steroids. In the delivery room, the infant is active and has appropriate saturations with face mask CPAP 6 cm H2O, and 30% oxygen.**

**Do you favor:**

**A. Intubation in the delivery room**

**B. Continuing CPAP in the delivery room**

- ☐ Strongly Favor A
- ☐ Favor A
- ☐ Neutral
- ☐ Favor B
- ☐ Strongly Favor B
- ☐ Unable to Answer

[reset](#)

**A newborn infant of 28 weeks gestation is placed on CPAP in the delivery room, and continued on CPAP 6 cm H2O, in the NICU. At two hours of life, the infant is requiring 40% oxygen and pCO2 is 55 mmHg. The infant is active with mild to moderate retractions.**

**Do you favor:**

**A. Intubation**

**B. Continuing CPAP**

- ☐ Strongly Favor A
- ☐ Favor A
- ☐ Neutral
- ☐ Favor B
- ☐ Strongly Favor B
- ☐ Unable to Answer

[reset](#)

A newborn infant of 28 weeks gestation is placed on CPAP in the delivery room. At two hours of life, the infant is requiring 30% oxygen and pCO<sub>2</sub> is 55 mmHg. The infant has significant work of breathing. You decide to intubate to give surfactant.

Do you favor:

A. Rapid extubation within 1 hour of surfactant without obtaining a blood gas

B. Continuing mechanical ventilation and weaning towards extubation based on clinical course, appearance, and blood gases

- ☐ Strongly Favor A
- ☐ Favor A
- ☐ Neutral
- ☐ Favor B
- ☐ Strongly Favor B
- ☐ Unable to Answer

reset

A newborn infant of 28 weeks gestation is placed on CPAP in the delivery room. At two hours of life, the infant is requiring 30% FiO<sub>2</sub> and pCO<sub>2</sub> is 60 mmHg. The infant has moderate work of breathing. You decide not to intubate at this time.

Do you favor:

A. Beginning NIPPV

B. Continuing CPAP

- ☐ Strongly Favor A
- ☐ Favor A
- ☐ Neutral
- ☐ Favor B
- ☐ Strongly Favor B
- ☐ Unable to Answer

reset

A newborn infant of 26 weeks gestation has RDS and is intubated in the delivery room and brought to NICU.

Do you favor:

A. Volume-limited SIMV

B. Pressure-limited SIMV

- ☐ Strongly Favor A
- ☐ Favor A
- ☐ Neutral
- ☐ Favor B
- ☐ Strongly Favor B
- ☐ Unable to Answer

reset

A newborn infant of 26 weeks gestation has RDS and is intubated in the delivery room and brought to NICU.

Do you favor:

A. SIMV with pressure support

B. SIMV without pressure support

- ☐ Strongly Favor A
- ☐ Favor A
- ☐ Neutral
- ☐ Favor B
- ☐ Strongly Favor B
- ☐ Unable to Answer

reset

A one day old infant of 23 3/7 weeks gestation, born weighing 500 grams, following a full course of antenatal steroids, has received two doses of surfactant and is now on settings of SIMV 16/5 x 18, with 21% oxygen without significant apnea.

Do you favor:

A. Extubation to positive pressure (CPAP)

B. Continuing intubation and ventilation with low settings

- ☐ Strongly Favor A
- ☐ Favor A
- ☐ Neutral
- ☐ Favor B
- ☐ Strongly Favor B
- ☐ Unable to Answer

reset

A one day old infant of 25 weeks gestation is being extubated from SIMV. The infant was on settings of 16/5 x 18, with 21% oxygen.

Do you favor:

A. Extubating to NIPPV

B. Extubating to CPAP

- ☐ Strongly Favor A
- ☐ Favor A
- ☐ Neutral
- ☐ Favor B
- ☐ Strongly Favor B
- ☐ Unable to Answer

reset

A two day old infant of 26 weeks gestation was extubated 4 hours ago. The infant was on 23% oxygen prior to extubation. The infant is now on CPAP 6 cm H<sub>2</sub>O, 30% oxygen, and has had four apnea/bradycardia/desaturation events ("spells") needing mild stimulation since extubation. The infant is receiving caffeine.

Do you favor:

A. Continuing CPAP

B. Reintubation

- ☐ Strongly Favor A
- ☐ Favor A
- ☐ Neutral
- ☐ Favor B
- ☐ Strongly Favor B
- ☐ Unable to Answer

reset

A two day old infant of 26 weeks gestation was extubated 4 hours ago. The infant was on 23% oxygen prior to extubation. The infant is now on CPAP 6 cm H<sub>2</sub>O, 30% oxygen, and has had four apnea/bradycardia/desaturation events ("spells") needing mild stimulation since extubation. The infant is receiving caffeine. You have decided against intubation.

Do you favor:

A. Continuing CPAP

B. Beginning NIPPV

- ☐ Strongly Favor A
- ☐ Favor A
- ☐ Neutral
- ☐ Favor B
- ☐ Strongly Favor B
- ☐ Unable to Answer

reset

A 28 week gestational age infant is being extubated on day four of life from SIMV settings of 16/5 x 16 and 21% oxygen to CPAP.

Do you favor:

A. Using Hudson prongs for CPAP

B. Using RAM cannula prongs for CPAP

- ☐ Strongly Favor A
- ☐ Favor A
- ☐ Neutral
- ☐ Favor B
- ☐ Strongly Favor B
- ☐ Unable to Answer

reset

A 36 week gestational age infant is born with RDS, and is being placed on CPAP in the NICU. The infant is active and vigorous, and it appears oxygen requirement will be 25-30%.

Do you favor:

A. Using Hudson prongs for CPAP

B. Using RAM cannula prongs for CPAP

- ☐ Strongly Favor A
- ☐ Favor A
- ☐ Neutral
- ☐ Favor B
- ☐ Strongly Favor B
- ☐ Unable to Answer

reset

A 26 week gestational age infant who is now two weeks old has been on CPAP with Hudson prongs. The infant is currently on 25% oxygen with minimal work of breathing. Nasal septal injury is noted, and you wish to transition from the Hudson prongs.

Do you favor:

A. Using face mask for CPAP

B. Using RAM cannula for CPAP

- ☐ Strongly Favor A
- ☐ Favor A
- ☐ Neutral
- ☐ Favor B
- ☐ Strongly Favor B
- ☐ Unable to Answer

reset

A former 24 0/7 week gestational age infant is now five weeks old, and has been on CPAP for approximately two weeks. The infant is currently on CPAP 5 cm H2O, 21% oxygen, with 2-3 apnea/bradycardia/desaturation events ("spells") per day while receiving caffeine. On rounds, the team suggests a trial off of CPAP.

Do you favor:

A. Trialing off CPAP

B. Continuing CPAP

- ☐ Strongly Favor A
- ☐ Favor A
- ☐ Neutral
- ☐ Favor B
- ☐ Strongly Favor B
- ☐ Unable to Answer

reset

What is your role in the NICU?

- ☐ Neonatal Hospitalist
- ☐ Neonatal Nurse
- ☐ Neonatal Nurse Practitioner
- ☐ Neonatologist
- ☐ Nutritionist
- ☐ Pediatric Nurse Practitioner
- ☐ Physician Assistant
- ☐ Respiratory Therapist

reset

Any comments/questions/suggestions?

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