

Neo-Tee® Assists Clinicians in Providing Better Patient Outcomes

In this feature, Neonatal Intensive Care interviews clinicians and healthcare providers about the actual application of specific products and therapies. Participating in the interview from Bryn Mawr Hospital: Kim Esposito, RRT-NPS, Clinical Coordinator Respiratory Care Dept.

Neonatal Intensive Care: What areas/departments could the hospital benefit from using the Neo-Tee?

Kim Esposito: Pediatrics, NICU, Labor and Delivery, ER: These are all places that now would have a tool to deliver a safe preset constant PIP and PEEP when resuscitating.

NIC: What device do you use as your primary resuscitation?

KE: NeoPuff but we supplement with Neo-Tee. We also use Neo-Tee solely in areas like ER and Peds where we do not have NeoPuffs.

NIC: When a baby starts to spontaneously breathe, how do you deliver blow-by? (Control FiO₂)

KE: With a continuous flow device like the Neo-Tee or NeoPuff.

NIC: What do you do to reduce a baby's work of breathing?

KE: With the Neo-Tee we can easily deliver NCPAP until we get the baby to a unit.

NIC: How does the Neo-Tee assist clinicians in providing better patient outcomes?

KE: It can be preset to deliver a preset PIP and PEEP reducing the cognitive load in stressful situations. It can also help prevent the high pressures that contribute to BPD.

NIC: What is a standard setting you use on the Neo-Tee for PIP and PEEP pressure?

KE: 25/5 flow of 12 is our starting point with blended gas at 21% FiO₂.

NIC: Could you share with us any specific incidents where Neo-Tee had a direct impact on patient outcomes?

KE: Yes, there was a case in the ER with a very small baby. It was a discharged preemie now back 4 days later with labored breathing and it was great to have this in the ED. It made transport easy and safe.

NIC: What advantages do you see using Neo-Tee versus previous resuscitation devices?

KE: It is a continuous flow that allow you to have preset safety ready to go and it can do NCPAP.

NIC: How has the manometer benefited you from a clinical standpoint?

KE: It's a must have. It guides you and lets you feel confident it is what you are delivering breath to breath.

NIC: Many clinicians have stated that feeling "lung compliance" with a resuscitation bag is very important. What are your thoughts on this considering that Neo-Tee does not allow for the "feel"?

KE: It true to some degree, but chest rise is key so looking at the chest during breath delivery is very important and the old mapelson required much more work and concentration (cognitive load) and in an untrained hand can cause damage to the lung. [Feeling] can sometimes distract you from looking at the chest rise as well. Neo-Tee is always safe and easy [because] it allows you to remain focused on the patient.

NIC: Has the Neo-Tee prevented intubations that may have occurred by the use of other resuscitation devices? If so, how does this help support reducing healthcare costs? (Can an actual dollar savings be applied to your facility?)

KE: Hard to say. The Neo-Tee does help with the cost in other ways such as preventing lung damage, it is a more economical solution than the NeoPuff and is a more flexible tool.

Input on questions was provided by Scott Horowitz of Mercury Medical. If you would like to participate in this feature, as a company or healthcare provider, please contact Christopher Hiscox or Steve Goldstien at s.gold4@verizon.net.