Implementing Trauma Informed Care Training to Improve Interaction Between Nursing Students and Parents of Babies with Neonatal Abstinence Syndrome.

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For my senior honors project I have researched how education on trauma-informed care impacts the family experiencing neonatal abstinence syndrome and how education can be given on how to have a trauma-informed approach. I researched the implementation of traumainformed care in the Neonatal Intensive Care Unit (NICU) setting and then developed training that was presented to volunteers at a local NICU facility. The Rock and Hold program through Cone Health allows nursing students who have completed one semester of clinical to volunteer in the NICU. Responsibilities of the volunteer include assisting the nursing staff by feeding, soothing, rocking, reading, and changing diapers. This is particularly important with babies who have Neonatal Abstinence Syndrome (NAS) and require extra attention. Babies who have NAS experience periods of withdrawals in which the child may have periods of inconsolable crying. NAS babies mustn't be overstimulated because this can be a stressor for the baby as they are hyperresponsive to stimuli. There is limited exploration of how trauma-informed care specifically impacts families affected by neonatal abstinence syndrome in the NICU setting. This project specifically explores how we can train NICU volunteers, who are soon-to-be nurses to implement trauma-informed care into their approach to care for patients. This not only invests in bettering patient volunteer interactions but also in future patient encounters these students will have throughout clinical experiences and nursing careers.

What is trauma informed care?

Trauma informed care [TIC} is when we recognize that the patient has experienced trauma that we are unaware of as healthcare providers. The patient's prior traumatic experiences, especially when experienced in repetition, have impacts on their health (Centers for Health Care Strategies Center, 2019). Applying TIC leads the provider to look at the whole patient, not just a singular point in their medical history. It is important that all healthcare member interacting with the patient but also all other staff that play a role in the patient experience such as environmental and food service personnel participate in TIC. Helping the patient to feel that they are in a safe environment and establishing trust is important in TIC. It is important that open ended questions are asked when addressing the patient. It is also important to change the mind set of "What is wrong with the patient to what has happened to this patient?" (Centers for Health Care Strategies Center, 2019).

Adverse childhood experiences, or ACES, and trauma informed care go hand in hand because people with ACES have experienced trauma. When healthcare providers do not understand or appreciate the impact of ACES and previously experienced traumas, they may not work effectively in communicating or comprehending the patients needs, which can cause retraumatization (Marcellus, 2014). Patients with high ACES scores need to be cared for using a TIC so that we do not damage rapport with the patient and their experience in a healthcare setting.

The importance of TIC in the NICU

It is important for us to realize that the NICU is a place that can be traumatic for NICU families and babies, especially those with Neonatal Abstinence Syndrome (NAS). According to Jaekel and colleagues (2021), there are hardships outside of the NICU such as social and economic burdens experience by families affected by NAS that can affect health and access to care." These social determinants impact the whole family and can impact a patient's ACES score. ACES can be taken into consideration with the newborn and the parents. Healthcare providers working with parents who used substances during the perinatal timeframe may hold negative biases that affect their attitudes and care leading to a less supportive environment for these families (Marcellus, 2014). We can use TIC to ensure that we are not carrying these types

of bias about patients and their families. Biases effect how we care for patients, and TIC can help address these biases. It is important while working with patients who have experienced trauma to understand that it is impossible to know their whole story and their experiences have impacted them. Providing training on TIC to nursing students volunteering in the NICU is important because this helps develop a standard for how they can incorporate TIC for the NICU family that is experiencing a crisis that we cannot fully understand and for future patient encounters to better the patient experience in health care. The NICU is a traumatic environment; no family expecting a child anticipates their baby being in the NICU. The NICU can be a scary place not only for parents but for the child with NAS as well. Making sure procedures are being upheld by the volunteers such as dim lights, a quiet voice, the correct posture to hold the baby and responding and recognizing cues that the baby is overstimulated.

Implementation of TIC in NICU Settings and Outcomes

Valuable information included by others in their trauma informed care training, comes from SAMHSA, (The Substance Abuse and Mental Health Services). Using this information from SAMSHA, Marcellus and Cross (2016) outline a process of realizing, recognizing responding and resisting. The CDC has also adopted 6 guiding principles from SAMHSA to help healthcare workers to have a trauma informed approach, they include "Safety, trustworthy and transparency, peer support, collaboration and mutuality, empowerment and choice, cultural, historical and gender issues" (CDC,2022).

A study by Linn et al. (2021) (used online training for interdisciplinary NICU team members, which focused on trauma and it's impacts, recognition of trauma, and implementation strategies. Ensuring safety, empowerment, collaboration between the healthcare team and families, and building trust were included as strategies to implement TIC (Linn et al., 2021). In this study, the average length of stay decreased significantly after staff TIC training and education for mothers on NAS, and a survey of staff revealed the majority of staff reported using TIC principles in their care (Linn et al., 2021) A curriculum used by Schiff and colleagues (2017) similarly included principles of TIC and recognition of trauma but also included reflection on personal attitudes and establishing compassion. In their survey, they found that participants who received the training had higher levels of trust toward parents and more comfort recognizing and supporting families who've experienced trauma compared to prior to the training. This signals that those who underwent TIC education would had a shift in perspective of how they view mothers with SUD (Schiff et al., 2017)

Implementing TIC in the Rock and Hold Program

As TIC training improves healthcare provider attitudes towards parents in the NICU and improves patient outcomes (Linn et al., 2017; Schiff et al.,), the purpose of this project was to create a training education on TIC for nursing students participating in the Rock and Hold volunteer program. This training was designed to better prepare them for anticipated interactions with NICU parents and to address any biases the nursing students may hold about parents of babies with NAS which will ultimately help them provide better care for their patient and the family. The full training module presentation is shown in Appendix A.

Setting

While Rock and Hold is for any baby in the NICU who needs extra attention, there tends to be a higher number of babies with NAS who receive assistance from Rock and Hold volunteers. It was crucial that the volunteers be made aware that women with substance use disorder (SUD) are at a higher risk of trauma due to ACES scores and social determinants of health. Prior to this training there were no resources for incorporating TIC into the NICU setting at the Women and Children's Center. A barrier to incorporating TIC into the NICU setting is that it requires additional training of the staff and time required to research and create a training. Lack of time to create training or lack of knowledge of how a trauma informed approach benefits patients and their families in the NICU may lessen the motivation to incorporate these practices. This project serves to incorporate a trauma informed approach to NICU volunteers, inclusive to student nurses entering the rock and hold program and existing nannies and Mannies. Nannies and Mannies are long term volunteers in the NICU at Cone Health. Additionally, creation of this training module also provides for future opportunities for adaptation for the multidisciplinary team within the NICU, as a trauma informed approach is key to how we approach our NICU patients. This project specifically focuses on incorporating TIC into this NICU setting, but further research would need to be done on how maternal-child specialty could benefit from this sort of training.

Module Design

The training module consists of a PowerPoint to introduce why a TIC is important in the NICU setting for parents of babies experiencing Neonatal Abstinence Syndrome (NAS) and how volunteers can be trauma informed. The training includes videos as well as information learned through the studies that have been researched and incorporated into a PowerPoint. The current Rock and Hold PowerPoints were also updated to match and flow with the trauma informed care training. Merging the TIC and prior Rock and Hold PowerPoints were done for efficiency in training the volunteers as well as to help the volunteers visualize how they can weave a trauma informed approach directly into their care for NICU patients. Slides 17 through 32 provide information about trauma informed care and its importance in the NICU, with 17 through 26 focusing on background such as ACES, traumas experienced by families in the NICU and

impacted by NAS, and the principles of developing relationships with families. These slides can be found in Appendix A. Slides 27 through 32 provide specific training on implementations using the 4 Rs approach.

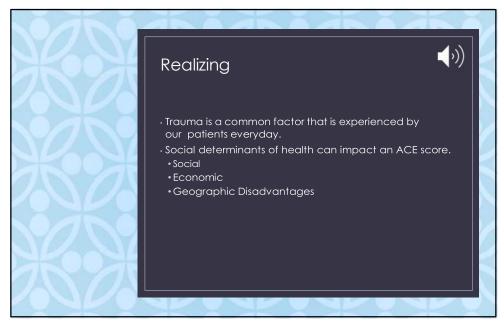
Incorporating the 4 R's

Using a training method that incorporates the four R's and six guiding principles used by the CDC helped provide information on what being trauma informed means. The four R's include realizing, recognizing, responding, and resisting retraumatiziation. These are essential to be able to provide trauma informed care in the Neonatal Intensive Care Unit. The 4 Rs were incorporated into the training module to educate volunteers.

The first R is realizing which means that we must realize that trauma is a common factor that is experienced by our patients every day. A study by Williams and others (2021) found that families in the NICU have a high prevalence of acute stress symptoms which is correlated with the adverse childhood experiences of the parents. When we are aware of how common ACES are and how the NICU heightens stress we can understand that trauma and stress are frequent occurrences in the NICU that should be handled by using a trauma informed approach. The trauma our patients experience is impacted by social determinants of health including social, economic, and geographic disadvantages, these factors also impact ACES. This was incorporated into slide 29 shown in Figure 1.

Figure 1

Realizing, Slide 29



Note. Narration of this slide included the information presented along with emphasis that these factors impact health.

Recognizing is the second R in the CDCs guide to trauma-informed care. We must recognize that our patients have experienced trauma that we are not aware of because we only see a short glimpse of their life story. There have been studies that show that stress can impact babies in utero. It is important that we teach those who will interact with the patient to look at them as a whole, and not by just a section of their health history or label we have given them. This allows us to view our patients and their families from a trauma-informed lens by "allowing us to have a better understanding of the disturbing, confusing or upsetting behavior of others, by encouraging grace and curiosity instead of judgement and condemnation" (Hubbard et al., 2021 p.2). It is also important for us to recognize that trauma impacts the baby, the family and the healthcare team. This was incorporated into slide 30 shown in Figure 2.

Figure 2

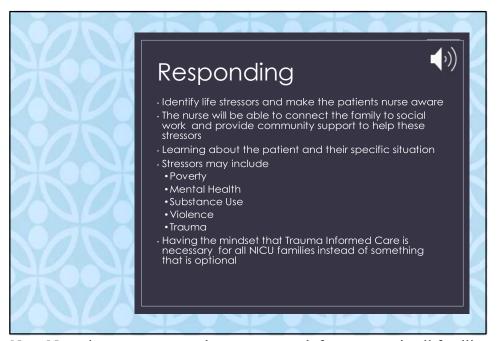
Recognizing, Slide 30



The third R is responding. The volunteers will be taught that if they identify any life stressors that are previously unknown to the healthcare team, they should notify the nurse so that the family will be able to get connected to the resources that they need such as social work and other community support to help out with these added stressors. Stressors that the volunteers could potentially identify include poverty, mental health, substance use, violence, and trauma. Another crucial part to responding is having the mindset that it is necessary for all families to be cared for with a trauma informed approach instead of something that is optional. Equipping these volunteers to use a trauma informed approach betters the quality of care for the entire family. This was incorporated into slide 31 shown in Figure 3.

Figure 3

Responding, Slide 31



Note. Narration encourages volunteers to watch for stressors in all families and to ensure that the healthcare team is aware.

The fourth R is resisting retraumatazation. Patients have mistrust in our healthcare system. This mistrust comes from injustice from systemic racism throughout history, cultural differences and negative personal experiences in the healthcare setting which may be impacted by implicit bias. Trauma-Informed care allows us to look at a situation to see how it is intensifying the stress our patients experience, allowing us to respond therapeutically (Torr, 2022). However, before we provide trauma informed care we need to understand our own implicit bias, because implicit bias unconsciously impacts the care we are able to provide to our patients. A study by Schiff and others (2017) found that hospital staff did not know how to respond to negative comments from other staff members about families experiencing NAS When we begin to educate hospital staff about TIC we can help address biases held by healthcare staff, and properly educate them on making sure we are looking at the patient and their families as a

whole, and providing the best care for them no matter the circumstance. Specifically addressing retraumatization in the NICU can also be done through minimizing stimulation of the baby's environment. Through keeping noise at a minimum, dimming the lights, only doing one activity with the baby at a time (like singing or rocking). It is also important to know cues as to when the baby is over stimulated and respond to these cues. The NICU environment is much different than what the baby has experienced in utero and is not what the baby's family was expecting to encounter upon the arrival of their child. Being sensitive by how the healthcare setting threatens retraumatization to this population is a way we can prevent this trauma related to the NICU setting from happening. Slide 32, shown in figure 4.

Figure 4

Resisting Retraumatization, Slide 32



Conclusion

The anticipated outcomes for implementing a trauma informed approach for NICU volunteers was to increase their confidence in providing therapeutic communication in the way they respond to their patients. In providing a trauma informed approach the intent was to build rapport with our patients and to change the way of thinking from what is wrong with this patient to what situations has this patient experienced to increase their stress and how can I help. Future pre and post surveys should be conducted to see how the volunteers feel about the care of mothers with SUD and babies experiencing NAS prior to the training and after completion of the training. The hope is that the volunteers felt more equipped and are confident in how to respond in a therapeutic manner. It is important to understand that trauma informed care should not be limited to volunteers in the NICU, instead future trainings should be adapted to be inclusive to all staff who will be at the bedside caring and interacting with the patients and their families in the NICU.

References

- Centers For Health Care Strategies. (2022, July 7). *What is trauma-informed care? trauma-informed Care Implementation Resource Center*. What Is Trauma-Informed Care. Retrieved September 15, 2022, from https://www.traumainformedcare.chcs.org/what-is-trauma-informed-care/
- Hubbard, D. K., Davis, P., Willis, T., Raza, F., Carter, B. S., & Lantos, J. D. (2022). Traumainformed care and ethics consultation in the NICU. *Seminars in Perinatology*, 46(3), N.PAG. <u>https://doi.org/10.1016/j.semperi.2021.151527</u>
- Jaekel, J., Johnson, E. I., Reyes, L. M., Layton, K. N., & Harris, M. N. (2021). Conducting Research with Families of Infants Born with Neonatal Abstinence Syndrome: Recommendations from Rural Appalachia. *Social Work Research*, 45(1), 63–68. <u>https://doi.org/10.1093/swr/svaa024</u>
- Linn, N., Stephens, K., Swanson-Biearman, B., Lewis, D., & Whiteman, K. (2021).
 Implementing Trauma-Informed Strategies for Mothers of Infants with Neonatal Abstinence Syndrome. *MCN: The American Journal of Maternal/Child Nursing*, *46*(4), 211–216. <u>https://doi.org/10.1097/NMC.00000000000728</u>
- Marcellus, L. (2014). Supporting Women with Substance Use Issues: Trauma-Informed Care as a Foundation for Practice in the NICU. *Neonatal Network*, *33*(6), 307–314. https://doi.org/10.1891/0730-0832.33.6.307
- Marcellus, L., & Cross, S. (2016). Trauma-Informed Care in the NICU: Implications for Early Childhood Development. *Neonatal Network*, *35*(6), 359–366.

https://doi.org/10.1891/0730-0832.35.6.359

Schiff, D. M., Zuckerman, B., Hutton, E., Genatossio, C., Michelson, C., & Bair-Merritt, M. (2017). Development and Pilot Implementation of a Trauma-Informed Care Curriculum for Pediatric Residents. *Academic Pediatrics*, 17(7), 794–796. https://doi.org/10.1016/j.acap.2017.03.011

 Shaikhkhalil, A., Jump, C., & Goday, P. S. (2019). Development and Pilot Implementation of a Nutrition Curriculum and Rotation in Pediatric Gastroenterology Fellowships. *Journal of Pediatric Gastroenterology & Nutrition*, 68(2), 278–281. https://doi.org/10.1097/MPG.00000000002135

- Torr, C. (2022). Culturally competent care in the neonatal intensive care unit, strategies to address outcome disparities. *Journal of Perinatology*, 42(10), 1424–1427. https://doi.org/10.1038/s41372-022-01360-2
- Williams, A. B., Hendricks-Muñoz, K. D., Parlier-Ahmad, A. B., Griffin, S., Wallace, R., Perrin,
 P. B., Rybarczyk, B., & Ward, A. (2021). Posttraumatic stress in NICU mothers:
 modeling the roles of childhood trauma and infant health. *Journal of Perinatology*, *41*(8), 2009–2018. https://doi.org/10.1038/s41372-021-01103-9
- Wisdom, A. C., Govindu, M., Liu, S. J., Meyers, C. M., Mellerson, J. L., Gervin, D. W.,
 DePadilla, L., & Holland, K. M. (2022). Adverse Childhood Experiences and Overdose:
 Lessons From Overdose Data to Action. *American Journal of Preventive Medicine*,
 62(6), S40–S46. https://doi.org/10.1016/j.amepre.2021.11.015

Wolkin, A., & Everrett, A. (n.d.). *Using trauma-informed care to guide emergency preparedness and response*. Centers for Disease Control and Prevention. Retrieved September 3, 2022, from https://blogs.cdc.gov/publichealthmatters/2018/07/trauma-care/

Appendix A

Presentation Slides



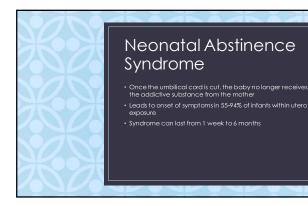
Neonatal Abstinence Syndrome

• A group of symptoms a newborn experiences due to in utero exposure to highly addictive substances Typically opiates or narcotics

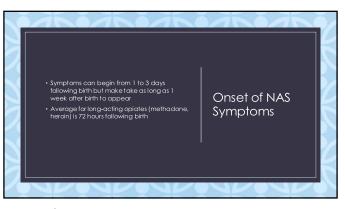
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- Methadone, Suboxone, Subutex • Heroin, codeine, oxycodone Illicit drug use reported in 4.5% of pregnant population; highest in teenage population (ages 15-17)
 Other substances can cause symptoms
- Cocaine, marijuana, barbiturates, amphetamines, nicotine

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NAS Symptoms

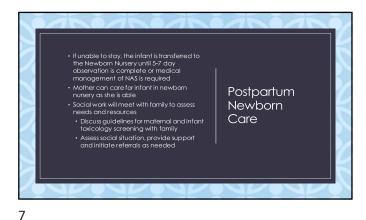
- Blotchy skin coloring (mottling) • Diarrhea
- Excessive or high-pitched crying
- Excessive sucking
- Fever
- Hyperactive reflexes
- Increased muscle tone Irritability
- Poor feeding

- Rapid breathing Seizures
- Sleep problems
- Slow weight gain
- Stuffy nose, sneezing
- Sweating
- Trembling (tremors)
- Vomiting

Postpartum Newborn Care

- AAP recommends that an infant born to a mother on an opiate with a prolonged half-life such as methadone should be observed for a minimum of 5 to 7 days.

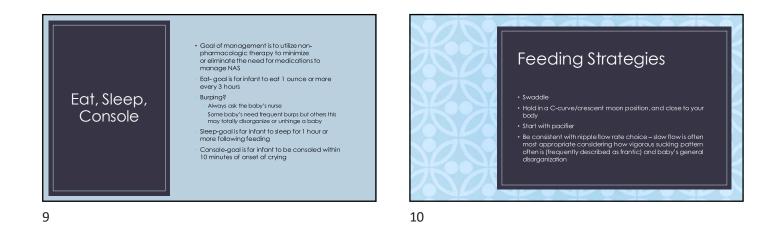
- be observed for a minimum of 5 to 7 days.
 Women's Hospital: Mother may stay with the infant in her hospital room for 5-7 days following delivery
 As long as no medical complications arise in infant
 As long as NAS symptoms do not need medication management
 Mother will be discharged per OB protocol
 Mother must stay in her hospital room ar make arrangements for a responsible adult to care for infant in the hospital room if she needs to leave the hospital

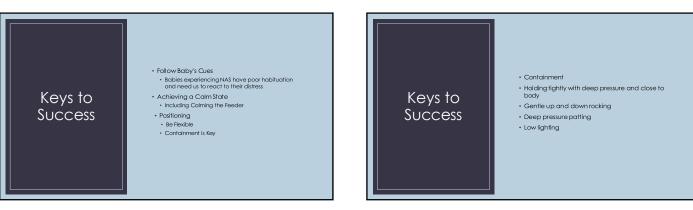


Optimal Newborn Care

- minimize environmental stimuli (both light and sound)
 provide a dark, quiet environment
- careful swaddling to minimize over stimulation
- responding early to an infant's signals
- appropriate infant positioning and comforting techniques (swaying, rocking)
- provide frequent small volumes of hypercaloric formula or human milk to minimize hunger and allow for adequate growth

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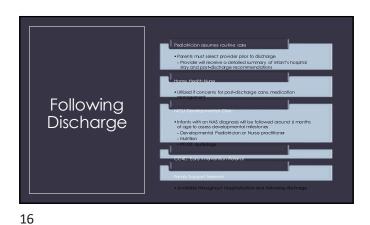


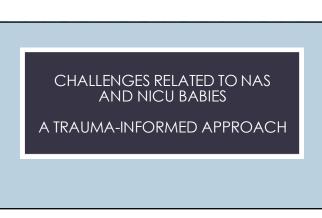


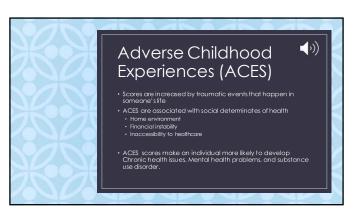




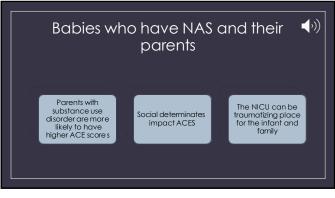




















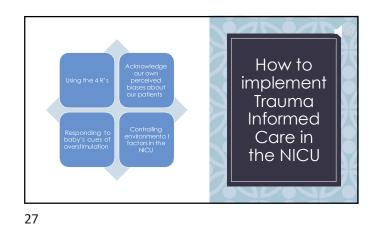






Cultural, Historical and ()) Gender Issues • Self acknowledge biases held about race, ethnicity, sexual orientation, age, religion, gender identity, and geography because this impacts our care for the client

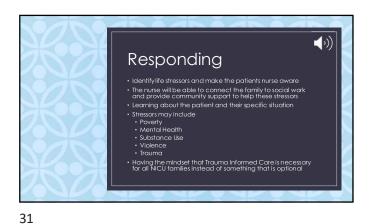
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 Minimize Noise
 Dim lights
 One activity at a time (Not rocking and being read to) **(**) Comfort measures to provide
 Using the proper positioning to hold the child Using the proper positioning to hold the child Firm pats Read to the baby Know cuess when the baby is overstimulated Put the baby down If the child is inconsolable despite comfort measures make sure the runse is aware Recognize personal bias and address it by recognizing that we only see a partian of the patient's tife and our bias willimpact the care we provide to them Resisting Retraumatization



