

Use of a Modified Eat, Sleep, Console Protocol in the Neonatal Intensive Care Unit

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Problem

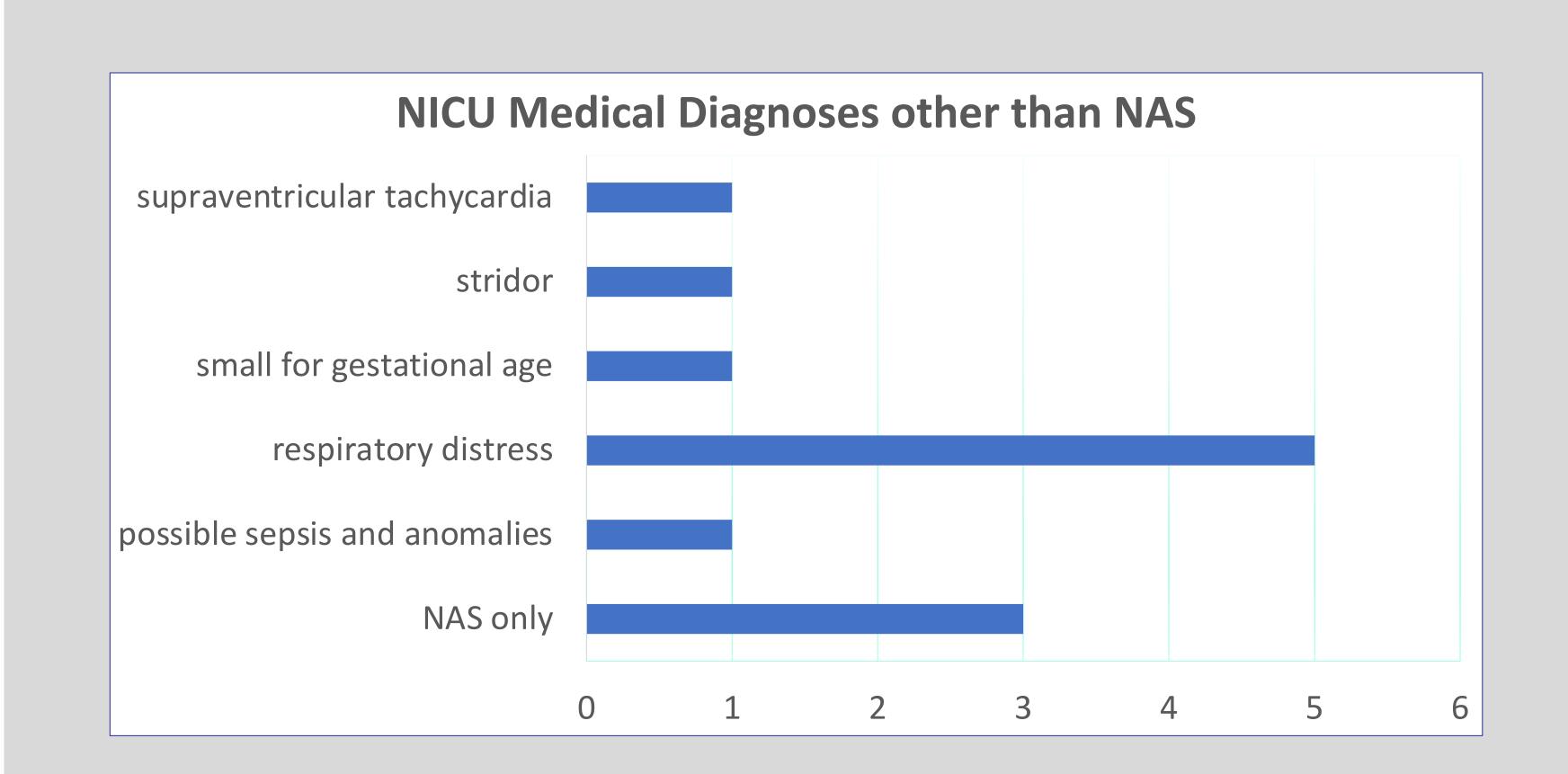
- Eat, Sleep, Console (ESC) protocol for care of infants with neonatal abstinence syndrome (NAS) is becoming widely employed with reduced morphine and/or methadone use, and decreased length of hospitalization
- One main component of the ESC protocol is assessment of infant's ability to tolerate on demand breastfeeds (or bottle feeds)
- Opioid exposed infants requiring Neonatal Intensive Care Unit (NICU) admission often have medical issues which prevent the opportunity to provide on demand feeds
- Loyola NICU cares for infants with a variety of medical conditions, often requiring NPO status, nasogastric/orogastric (NG/OG) feeds, and/or transition from NG/OG feeds to breast/bottle feeds
- Multidisciplinary team collaborated to implement a modified ESC protocol for NICU opioid exposed infants born >35 weeks gestation

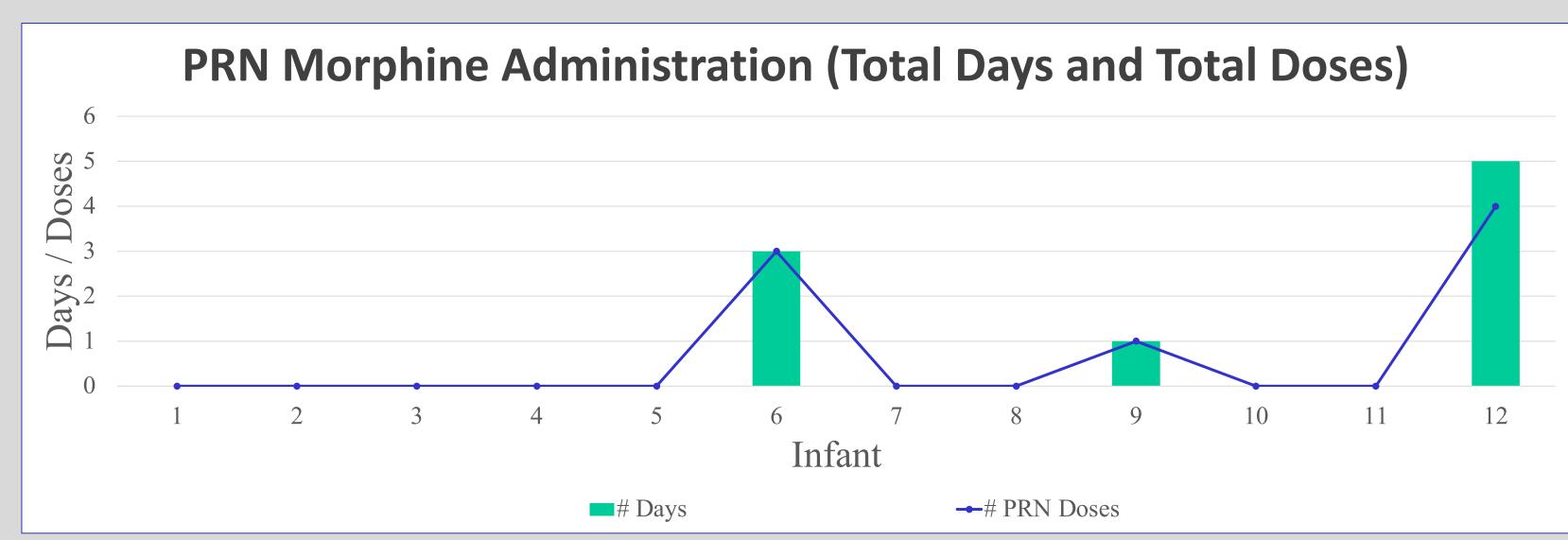
Project Implementation

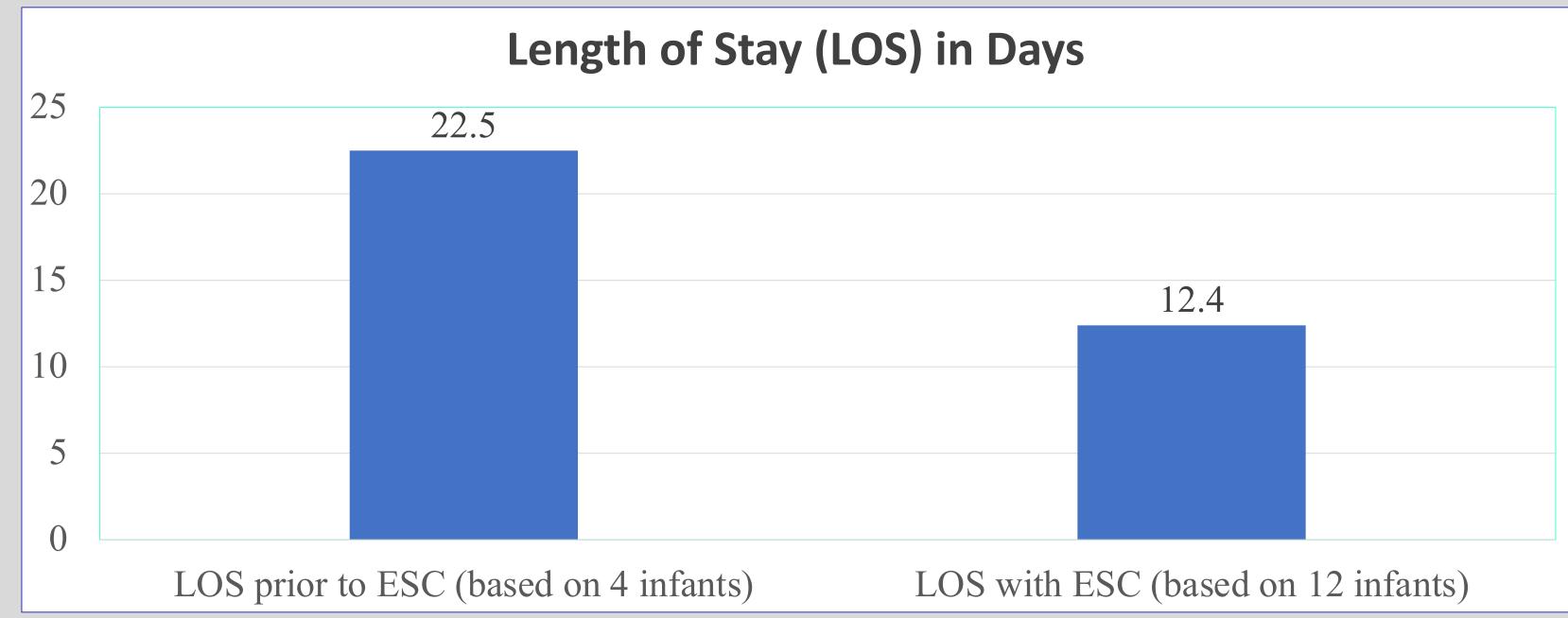
- Our quality improvement (QI) clinical practice change involved transition from the Neonatal Withdrawal Inventory (NWI) to a modified ESC protocol for opioid exposed infants born at ≥35 weeks gestation, with medically indicated NICU admission
- An established ESC order set (for newborn nursery use) was utilized, with the additional option to eliminate the assessment of infant's ability to tolerate on demand feeds from the specific orders
- All other components of the ESC protocol were applied in care of these opiate exposed infants requiring NPO status, NG/OG feeds, and/or transition from NG/OG feeds to breast/bottle feeds
- Education of NICU health care providers occurred prior to implementation of the practice change
- Buy-in of key nursing and medicine stakeholders supported provision of one-to-one nursing care in a low stimulation environment
- Family participation encouraged, as available
- Volunteer "cuddlers" assisted with consoling infants, as available

Results

- Beginning January 2019, the NWI was replaced by a modified ESC protocol for opioid exposed infants >35 weeks gestation requiring NICU admission
- 12 NICU admissions with NAS, 75% with primary or secondary diagnoses other than NAS
- No infants required scheduled morphine and only single morphine doses were administered, based upon multidisciplinary team huddle decisions
- There were no complications or harm to any NICU infants
- Safe discharge plan for all infants







Conclusions

- Sole utilization of the modified ESC protocol with the option to eliminate assessment of on demand feeds has led to decreased morphine use and decreased length of stay
- Ongoing education of new health care providers will ensure sustainability of this successful QI clinical practice change in the care of NICU opioid exposed infants born at \geq 35 weeks gestation
- Modified ESC protocol can be successfully utilized in care of opioid exposed infants \geq 35 weeks requiring NICU admission

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