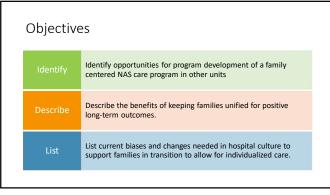


Nichole Lensing PT Jennie Jacob PT

No relevant financial or nonfinancial relationships exist.

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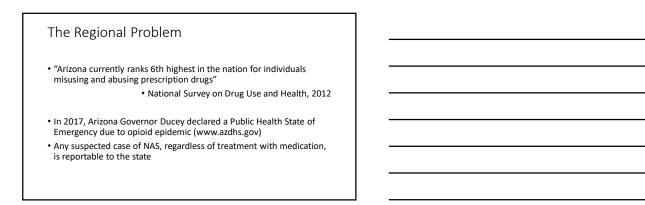
Definition of Neonatal Abstinence Syndrome

 Constellation of symptoms and signs of withdrawal in the newborn due to intrauterine exposure to addictive substances, usually opioids
Peak symptoms 3-4 days

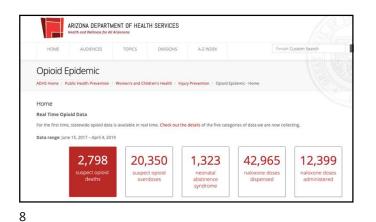
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The National Epidemic

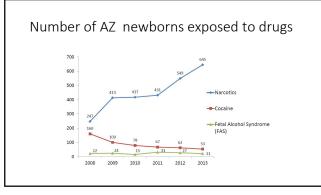
- Data from 2014 indicates a 5 fold increase in NAS from 2000-2012
- Estimated 20 per 1000 live births
- 1 baby every 15 seconds
- Average hospitalization length: 23 days
- Average hospitalization charge: \$93,400
- Medicaid costs: \$1.2 billion

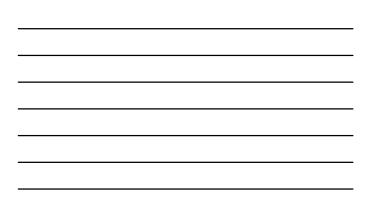


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- Standard of care was previously pharmacological treatment
- In early 2017, visited Yale New Haven, Dr. Grossman's program: Eat, Sleep, Console method
- First baby admitted into the program in summer 2017



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	TABLE 1. Researchon Eat, Sleep, and Console							
Study	Study Design	Subjects	Results	Implications				
Grossman et al 2018	Implementation of several PDSA cycles from 2010 to 2015 that focused on standardizing nonpharmacologic treat- ment coupled with (1) involving parents in treating their infant, (2) infants were cared for on a pediatricuni; (3) develop- ment of a novel approach to assessing NAS, and (4) using morphine on an as- needed basis.	Opioid- exposed infants N = 287	Average length of stay decreased from 22.4 to 5.9 d. Pharmacologic treatment with morphine decreased from 98% to 14%. Costs decreased from \$44,824 to \$10,289 per patient.	Provides evidence that length of stay and cost are significantly reduced by (1) lending an empowering message to the parents, (2) train ing staff that nonpharmscologic/intervention are equivalent to pharmacologic/treatment, and (3) developing a novel tool that simplifies NAS assessment and management. The long-term impact on these infants and our healthcare system is yet to be studied.				
Wachman et al 2018	Utilized stakeholder interviews and PDSA cycles. Compared pr-an dpositinerven- tion on NAS outcomes after a Q1 initi- tive that included: A nonpharmacologic care bundle, function-based assessments consisting of symptom prioritization, use of early version of ESC, or a switch to methadone for pharmacologic treatment.	Opioid- exposed infants ≥36 wk N = 240	Decreases were found in: Pharmacological treatment from 87.1% to 40.6% Adjunctive agent use from 33.6% to 2.4% Hospitalization actives down 17.4 to 11.3 d Opioid treatment days from 16.2 to 12.7 d	Provides evidence that models of care that promote parental engagement and other nonpharmacological care measures should be implemented in hospitals to improve NAS outcomes. Also implicates a need for the cur- rent NAS assessment too Ito be revealuated and that function-based approaches should be considered.				
Grossman et al 2018	All subjects were managed using the ESC method. FNASS scores were simultane- ously collected every 4-6 h. Treatments using the ESC approach were compared with what treatment decisions would have been selected on the basis of the FNASS scores.	Opioid- exposed infants at the Yale New Haven Children's Hospital N = 50	Six infants (12%) were treated with morphine using the ESC approach compared with 31 infants (62%) who would have been treated with morphine using the FNASS approach. There were no readmissions or adverse effects reported.	Provides evidence that the ESC method shows decrease inopioid-exposed infants being treat-ed with morphine. Revaluating the FNASS system should be considered in the manage- ment of NAS.				

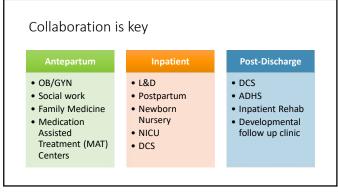
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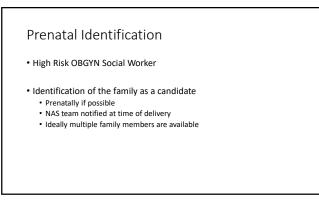








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Labor and delivery

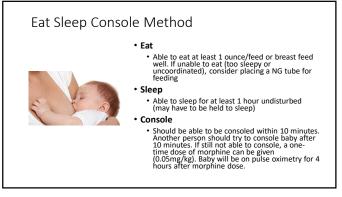
- At birth both Mother and Baby drug tested
- Routine newborn care non-judgmental care for mother and education on infant care
- $\ensuremath{\cdot}$ When Finnegan scores exceed threshold then transfer infant to NICU
- \bullet Once mother is discharged, she stays in the NICU with her infant in nesting room

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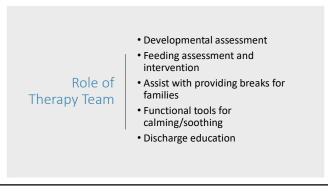
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NICU stay

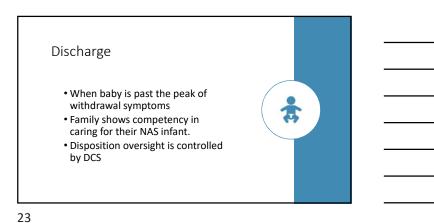
- Remove barriers to family's presence:
 - Provide meals
 - Visitation of other children
 - Coordinate trips to the MAT centers
 - Provide breaks
 - Dedicated cuddlers

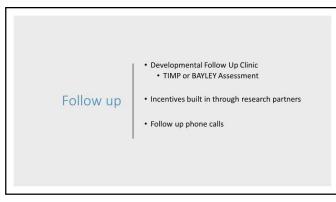
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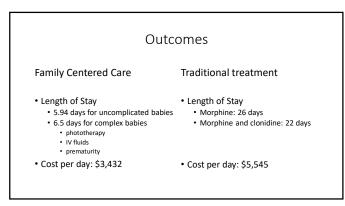




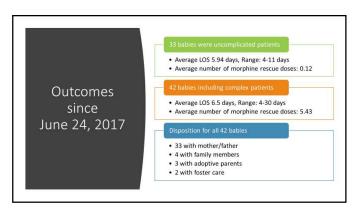
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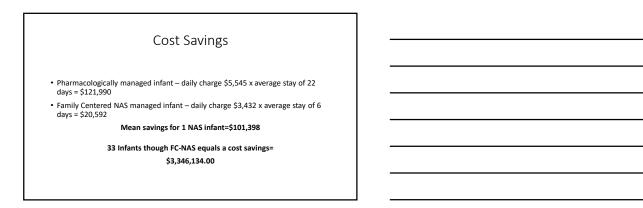




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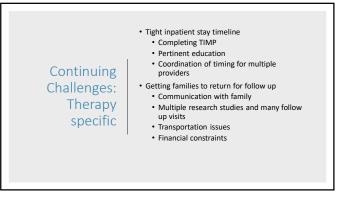


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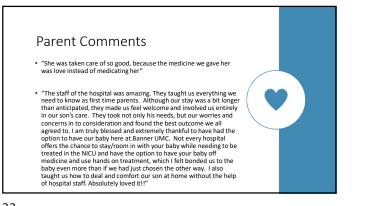
Continuing Challenges

• TIME

- Ability to have early program contact with families
- Difficulty with extending program to all substance exposed infants
- Room and unit constraints
- Continuing staff education and ongoing bias
- Establishing community partnerships



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