

Quality Improvement Project:
Implementing Infant-Driven Feeding™
 in the Neonatal Intensive Care Unit

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Children's Hospital of Pittsburgh of UPMC NICU

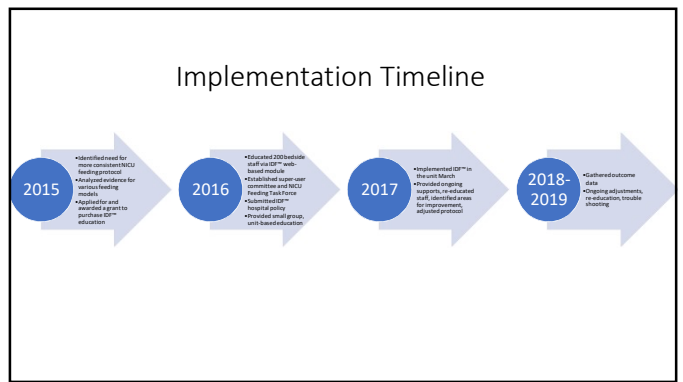
- 55-bed Level IV NICU
- Approximately 1000 admissions per year
- Respiratory distress is our #1 chief complaint
- All gestational ages



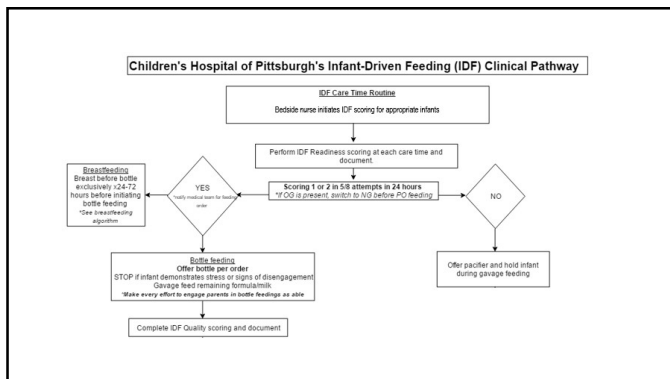
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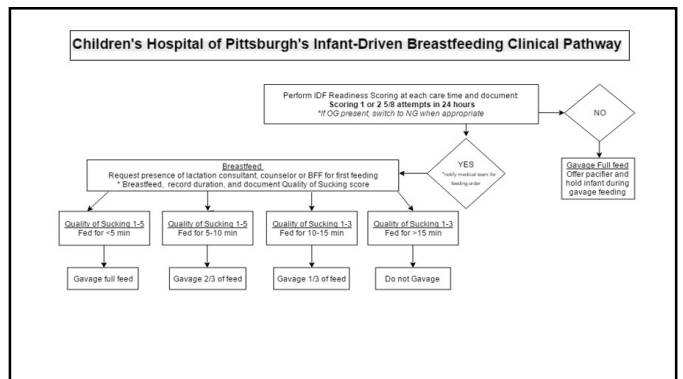
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Re-Education & Celebration

- Parent handout
- Computer sided cheat sheets
- Quality-score guidelines
- Breast-feeding supplementation guidelines
- One-year anniversary celebration
- Power point after power point presentation...

IDF- SURVIVAL GUIDE: NICU FEEDING PROTOCOL

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Quality Improvement Project

- Chart reviews to compare outcomes of feeding via IDF™ to the “old” practitioner-driven model
- 2015 cohort compared to 2017-2018 cohort
- Outcomes analyzed:
 1. Time to full oral feeds
 2. Length of hospital stay
 3. Postmenstrual age at first oral feeding

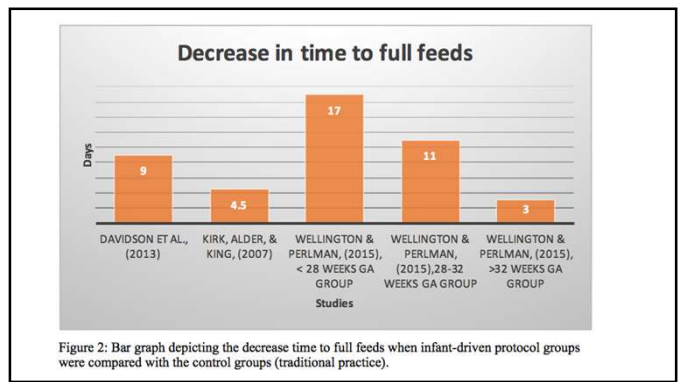
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Quality Improvement Project

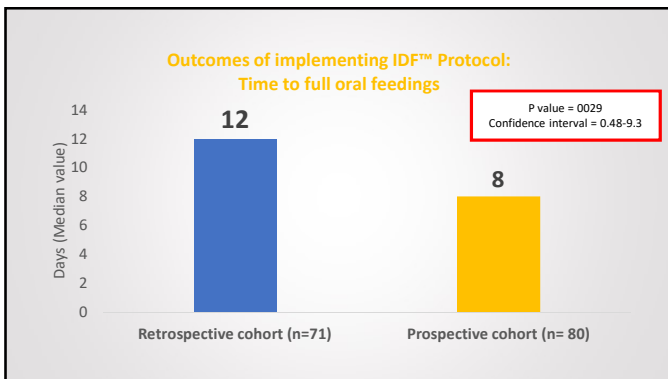
| Retrospective Group, 2015 N = 71 | Prospective Group, 2017-2018 N = 80 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Average length of stay: 42.67 days • Average time to full oral feeds: 17.57 days • Average PMA at first oral feed: 36.86 weeks | <ul style="list-style-type: none"> • Average length of stay: 37.69 days • Average time to full oral feeds: 12.65 • Average PMA at first oral feed: 36.68 weeks |

| Inclusion Criteria | Exclusion Criteria |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Infants born <37 weeks Infants admitted >7 days Infants with pe tube | HIE IVH grade III or higher Agenesia of the corpus callosum Known neuromotor dysfunction Genetic syndromes Infants that required ECMO. |

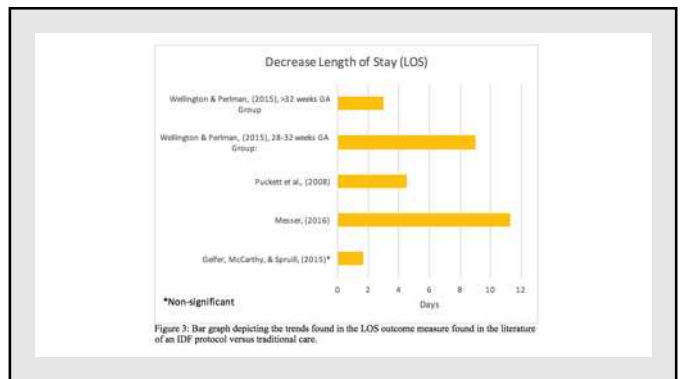
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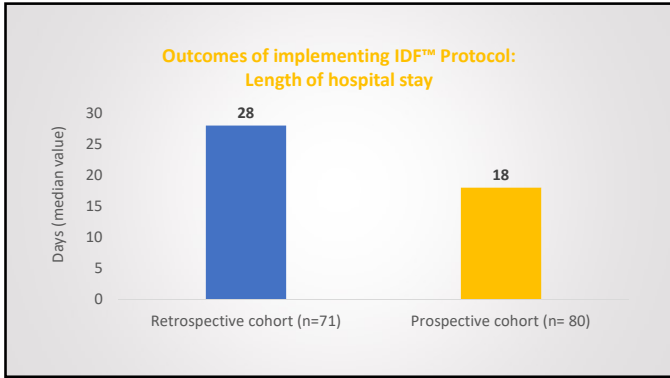
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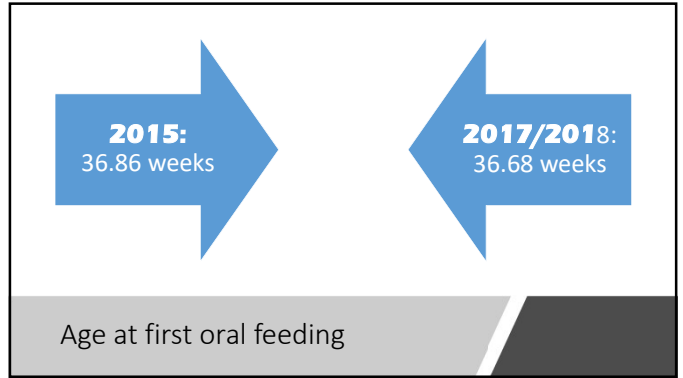
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Current Status

- Persistence of volume-driven culture
- Challenge of educating new staff
- System-wide IDF™ usage
- Long-term outcome studies

UPMC CHILDRENS

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