

Building Brighter Futures: A Proactive Blueprint for Sustaining Higher Pediatric Admissions in Community Care



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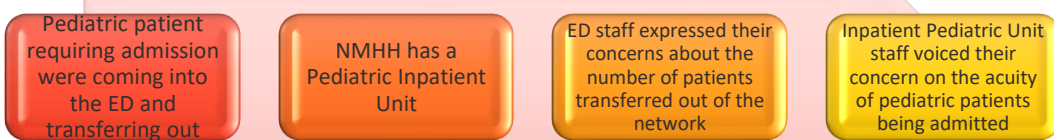
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Successfully increased the average number of pediatric patients treated per month from 18 to 33 in Inpatient Med/Ped Unit (IMPU). This was accomplished by utilizing shared-decision making and contributions from the multidisciplinary team.

Background

Problem Statement:

- NM Huntley Hospital was experiencing a growing number of pediatric patients in our ED waiting on admission
- A need was identified to create alternatives for the transfer of pediatric patients because:
 - Pediatric Units in the State of Illinois were occupied
 - Families were experiencing distress as they had to travel several miles, sometimes out of state
 - Nurses were capable of some higher level of care



Goal

Continue to increase pediatric admissions on the IMPU by 25% compared to baseline data from FY22 and sustain growth through targeted strategies, including streamline admission criteria, continuous throughput and staff education.

Figure 1: Patient per Month Pre-Data

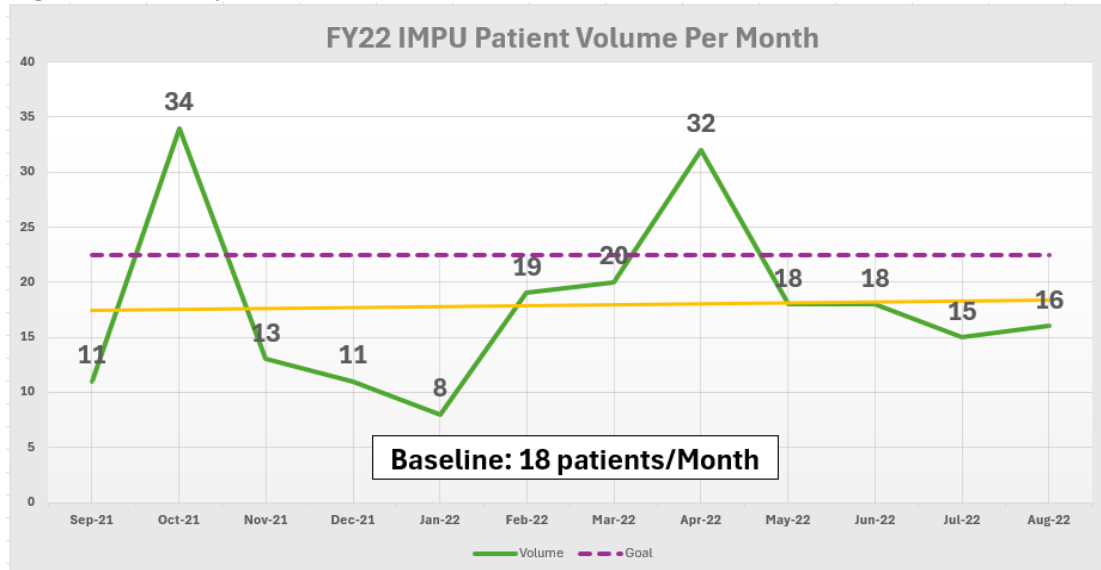
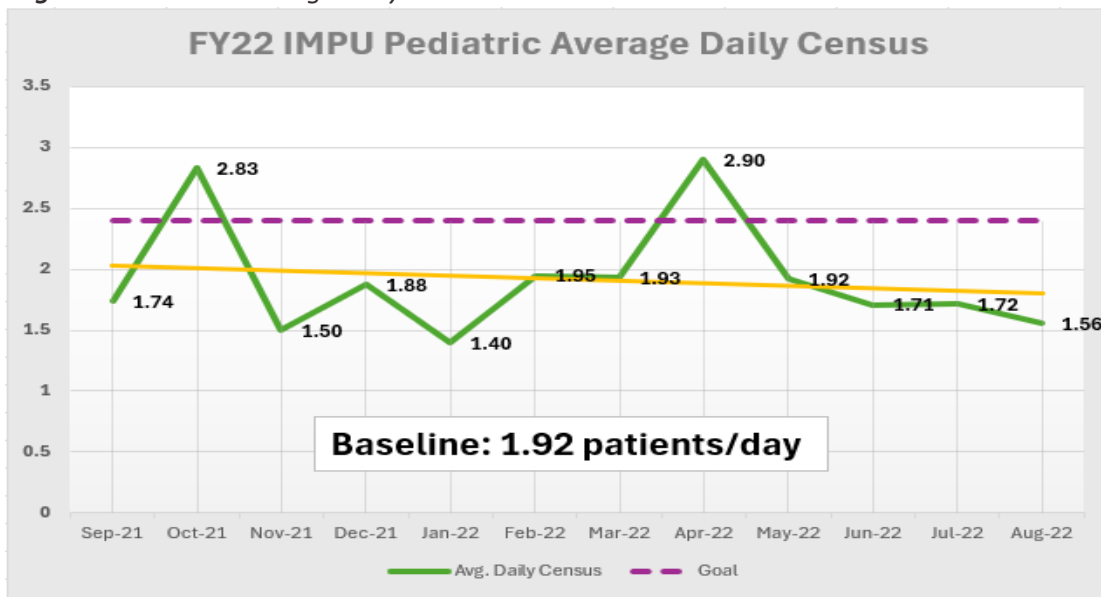


Figure 2: Pediatric Average Daily Census Pre-Data



Conclusion

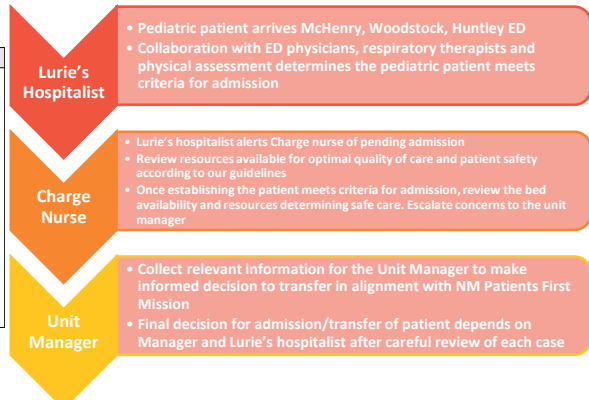
- All Inpatient Med/Ped nurses trained in PALs and have competencies to care for pediatric patient
- Achieved hospital wide goals by going above and beyond to keep families within our community
- Followed guidelines for assessment, diagnosis, and treatment
- Make certain that thorough reassessment is complete prior to transfer
- Ensure correct patient, correct bed and correct care team

Methods

Approach: Multidisciplinary Team created a comprehensive plan by

1. Developing a Pediatric Respiratory Detailed Admission Criteria

Pediatric Respiratory Detailed Admission Criteria
General Respiratory Patients 1:4 Ratio Include: <ul style="list-style-type: none">Assessment and interventions no more frequent than Q4 hours.Short-term intervals of increased frequency of assessment/interventions due to a procedure or infusion.Oxygen via standard nasal cannula or face mask.Nasopharyngeal suctioning.
Pediatric Patients High Flow Nasal Cannula Admission Criteria: <ul style="list-style-type: none">Pediatrics requiring High Flow Nasal Cannula that respond favorably to High Flow O2 after one hourResponding to interventions and are stable with <1.5 liters/kg.Less than or equal 50% FIO2.Higher requirements are a consideration for immediate transfer for higher level care.



2. Implementing "Bed Ahead" (guaranteed bed availability for pediatric population) for continuous throughput for pediatrics

- Collaboration with Charge RN and bed placement to transfer adult patient(s) to alternative unit to accommodate up to 12 pediatric patients

3. Ensuring the right nurses for the right patient

- All nurses on IMPU are PALs certified
- Maintain pediatric skills – low tech/high tech simulations, pediatric return demo competency, etc.

Results

- Post-intervention number of patient treated per month increased from 18 to 33 patients
- Average daily census increased from 1.92 in FY22 to 3.12 by end of FY24

Figure 3: Patient per Month

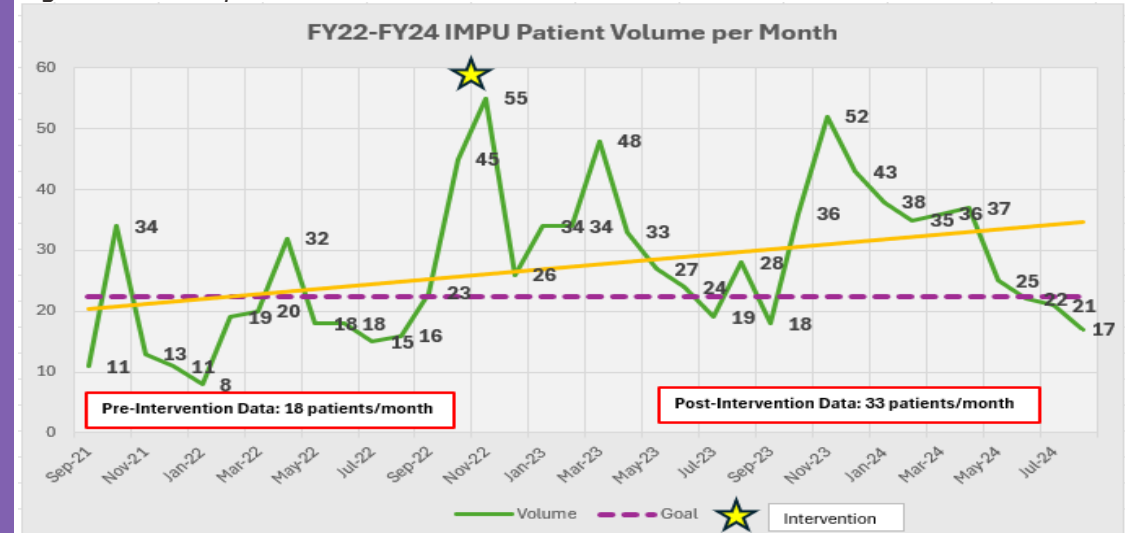
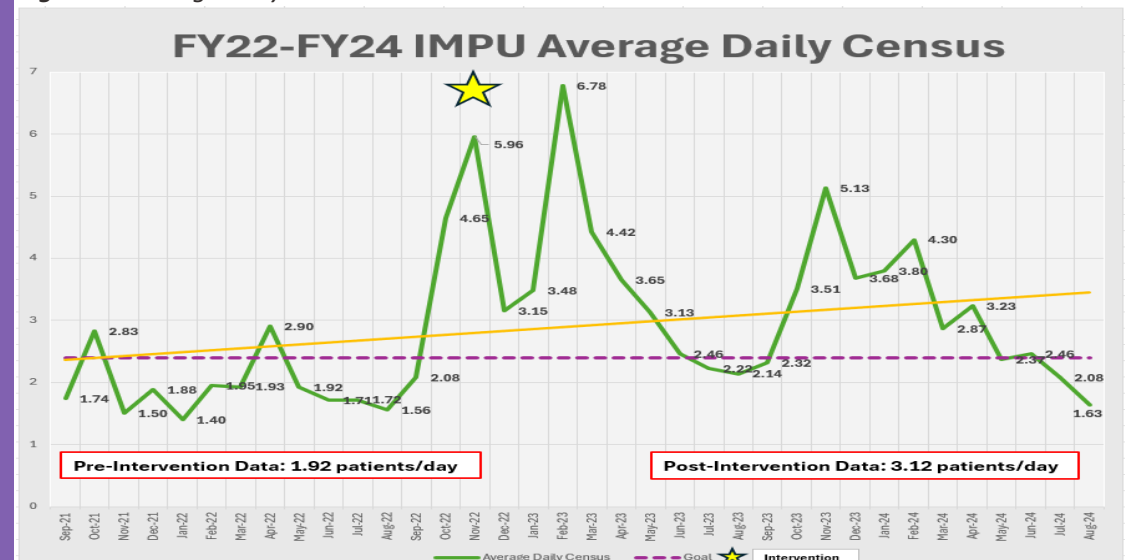


Figure 4: Average Daily Census



Reference

- Bongiorno, D. M., Ravicz, M., Nadeau, N. L., Michelson, K. A., Alpern, E. R., Myers, S. R., & Samuels-Kalow, M. E. (2024). Pediatric capacity crisis: A framework and strategies to prepare for a pediatric surge. *Journal of the American College of Emergency Physicians Open*, 5(1). <https://doi.org/10.1002/emp2.13093>
- Cong, B., Uğurcan Koç, Bandeira, T., Quique Bassat, Bont, L., Giorgi Chakhunashvili, Cohen, C., Desnoyers, C., Hammit, L. L., Heikkinen, T., Q Sue Huang, Joško Markić, Ainara Mira-Iglesias, Moyes, J., D James Nokes, Ploin, D., Seo, E., Singleton, R., Wolter, N., & Chee Fu Yung. (2023). Changes in the global hospitalization burden of respiratory syncytial virus in young children during the COVID-19 pandemic: a systematic analysis. *The Lancet Infectious Diseases*, 361–374. [https://doi.org/10.1016/s1473-3099\(23\)00630-8](https://doi.org/10.1016/s1473-3099(23)00630-8)
- Diez-Gandia, E., Gomez-Alvarez, C., Lopez-Lacort, M., Munoz-Quiles, C., Ubeda-Sansano, I., Diez-Domingo, J., & Orrico-Sanchez, A. (2021). The impact of childhood RSV infection on children's and parents' quality of life: a prospective multicenter study in Spain. *BMC Infectious Diseases*, 21(924). <https://doi.org/10.1186/s12879-021-06629-z>