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  - o To submit a question, type it into the Chat Area and send it at any time
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In support of improving patient care, the Duke University Health System Department of Clinical Education and Professional Development is accredited by the American Nurses Credentialing Center (ANCC), the Accreditation Council for Pharmacy Education (ACPE), and the Accreditation Council for Continuing Medical Education (ACCME), to provide continuing education for the health care team.









### **Upcoming Team Training Events**

#### Courses

- In-person TeamSTEPPS Master Training
  - September 25-26 at Houston Methodist
  - October 21-22 at Northwell
  - o December 5-6 at UCLA

#### Webinars

A Clinical and Culinary Guide to Healthy Hospital Food, September 19 sponsored by PCRM



### **Custom TeamSTEPPS Advisory Services at Your Organization**

#### TeamSTEPPS Master Training Course

Using a train-the-trainer model, we give you the foundational tools and concepts, and train your staff through this two-day training program. You will gain a team of Master Trainers ready to teach others in your organization.

# Comprehensive TeamSTEPPS Programs

We help you along the way. After delivery of the two-day Master Training course, we continue to work with your team for 3-6 months, building the internal capacity to hardwire TeamSTEPPS throughout your organization.

Learn More »

Our relationship with the TeamSTEPPS faculty and the on-site trainings were both phenomenal. They did a great job of meeting us where we were and customized a program that really helped us gain clarity about the problem we're trying to solve.

Melissa Riffe-Guyer
 Executive Director,
 Culture Cone Health







# Virtual Nurse Program

Sophy J. Rodriguez, MSN, RN, CPN Elizabeth Salerno, MSN, RN, NEA-BC



September 2024

### Objectives

- Identify opportunities for virtual nursing models
- Demonstrate knowledge of the process to initiate a virtual nursing program
- Evaluate outcomes for the virtual nursing program



# Nemours Children's Hospitals: Among the Nation's Best



Nonprofit organization devoted to children's health, providing care, research, and education





4 States (DE, FL, NJ, PA) 1.8 million
Annual
patient
encounters

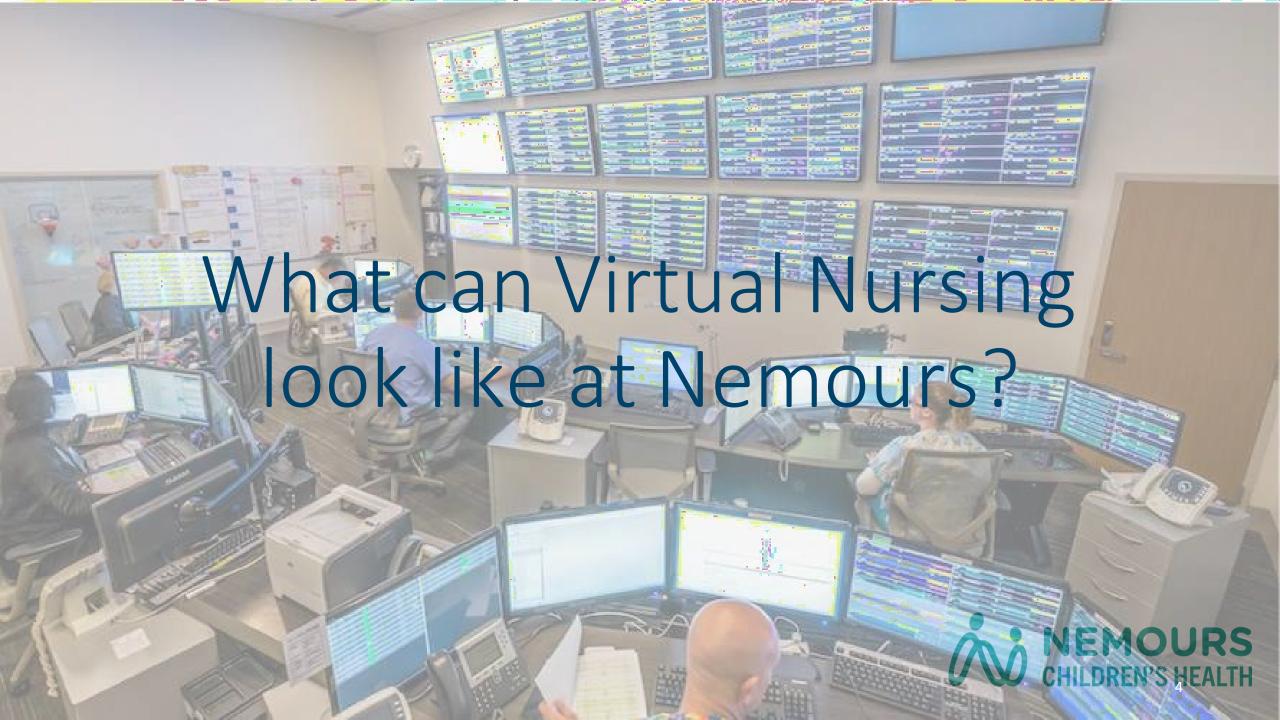
9267 Associate FTE 872
Physicians
2335
Nurses

1700 Resident and Fellows

\$66 million Research Funding **75.5 million**KidsHealth.
org
visitors

Nemours by the numbers:

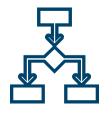




## **Guiding Principles**



Develop a **family-centered** model keeping the Voice of the Child and Family top of mind.



Create a **system-wide approach** to align DE and CFL regions, while honoring site-specific variations.



Leverage continuous improvement principles to surface problems and develop countermeasures.



Develop a supportive culture that promotes collaboration, communication and feedback.



### **Project Overview**

#### GOAL

Develop a new model of care leveraging a virtual nurse (VRN) role to enhance patient care and complement bedside nursing responsibilities.

#### **OBJECTIVES**

Develop a VRN model and plan for scaling across the Nemours Children's system.



#### Groundwork in NCHFL

- Literature reviews
- · Venn diagram for VRN role & responsibilities



#### Plan for VRN model

- Pilot units & hours
- Physical workspaces
- State licensures
- Workflows



#### Pilot go-live

- MedSurg, NCHFL
- 4W. NCHDE



#### Pilot go-live

· HemOnc, & Short Stay Unit, NCHFL



#### **Future State**

- Spread & scale full VRN model
- · Expand to additional disciplines
- · Implement two-way camera technology

MAY

JUN

AUG

SEP

OCT

2024

APR

**Project Kickoff** 

· System approach



JUL



- Testing
- Purchasing
- · Configuration, bedside technology







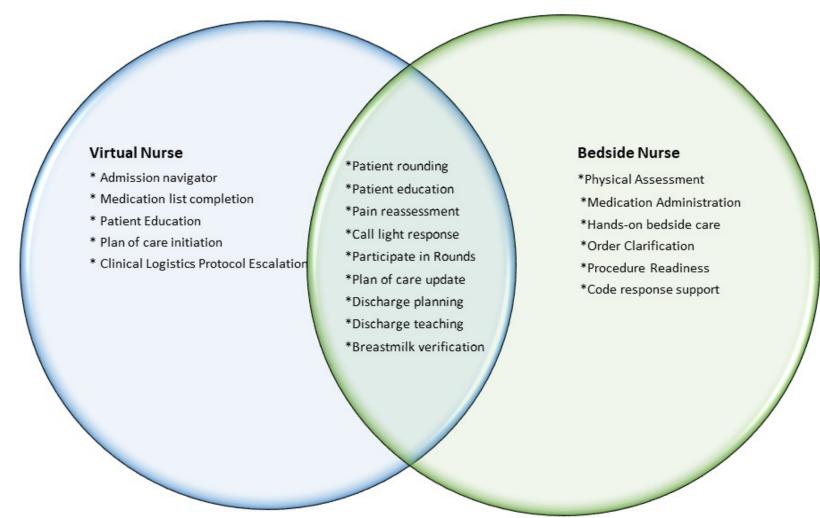
- · Monitoring/controlling
- Data collection & analysis
- DMS





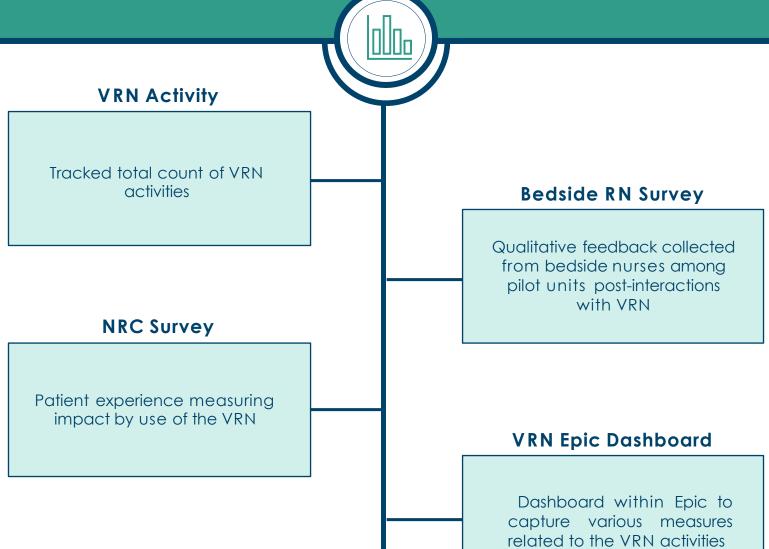


# Virtual Nursing Pilot at Nemours





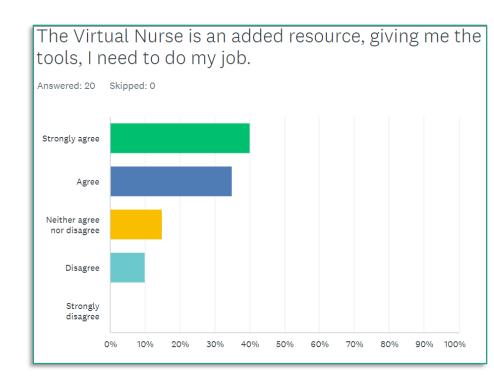
# Key Project Measures



### Results | Bedside RN Survey

# Feedback collected among bedside nurses among pilot units:

- 9 question-survey to assess VRN role's helpfulness & efficiency
- Provided to bedside RN's for pilot units at 30-90-day post-go-live
- 75% of all responses strongly agreed/agreed that VRN enhanced the bedside RN role



"The Virtual Nurse elevates the role beyond what I could have imagined."



# Results | NRC Survey Responses

	Baseline*	September	October	November	December	January	February	March	April	May	June	July
Comfort talking with nurses	82.4 (n=785)	77.5 (n=138)	89.1 (n=64)	85.0 (n=160)	83.1 (n=154)	90.9 (n=154)	81.9 (n=160)	87.0 (n=146)	82.3 (n=158)	82.6 (n=184)	83.6 (n=159)	90.7 (n=162)
Nurses courtesy/respect	85.4 (n=773)	79.6 (n=137)	90.5 (n=63)	88.5 (n=157)	90.2 (n=153)	92.0 (n=150)	84.7 (n=157)	91.0 (n=144)	81.4 (n=156)	85.2 (n=182)	84.8 (n=158)	91.3 (n=161)
Nurses explained things	82.6 (n=775)	78.1 (n=137)	85.7 (n=63)	87.3 (n=157)	83.9 (n=155)	90.7 (n=151)	84.2 (n=158)	86.9 (n=145)	84.1 (n=157)	83.6 (n=183)	80.5 (n=159)	88.8 (n=161)
Nurses listened carefully	80.1 (n=782)	73.9 (n=138)	85.9 (n=64)	80.5 (n=159)	81.8 (n=154)	89.0 (n=154)	82.4 (n=159)	86.3 (n=146)	80.3 (n=157)	83.7 (n=184)	75.5 (n=159)	88.8 (n=161)

- Scores significantly above baseline on all four measures
- Improvements ranging from 6-9 points
- Patients and families are reflecting a higher level of comfort talking to nurses and nurses are explaining things and listening carefully more often



### Results | Health Equity

#### Language

- Over 80% of both Spanish and English-speaking families report positive impacts of virtual nursing
- Scores for both Spanish and English-speaking families were the highest for "Nurses courtesy/respect"
- Spanish speaking families showed the highest score overall for "Nurses listened carefully".

#### **Social Determinants of Health**

- Leveraging VRN role to complete SDoH screener
- VRN initiating referrals for positive screens



# Results | Epic Dashboard

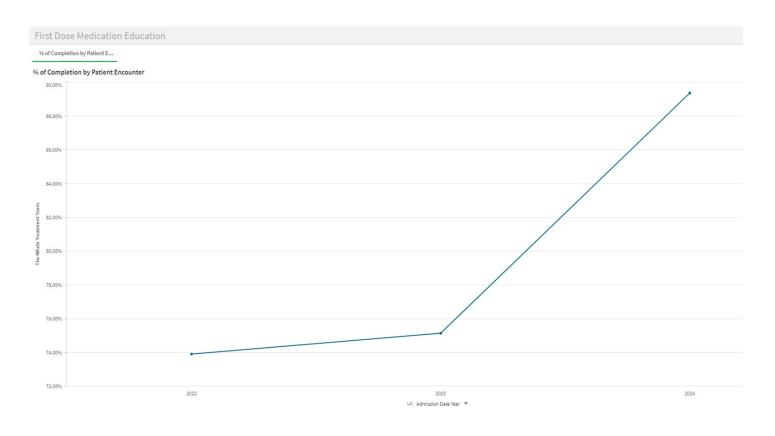


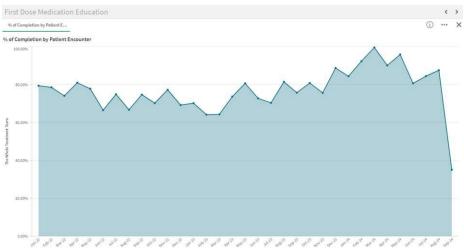
#### Will provide VRN metrics related to:

- Timeliness of completing admission database
- Completion percentages of databases
- LOS/readmission data
- Completion of patient education
- Timing of discharge orders to 'out-the-door'



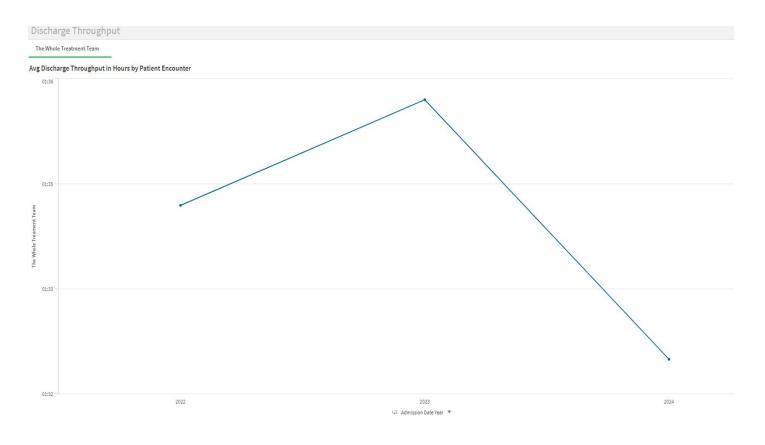
# Results | Education Compliance

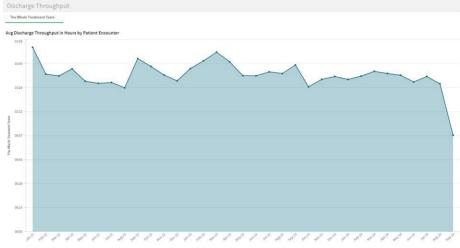






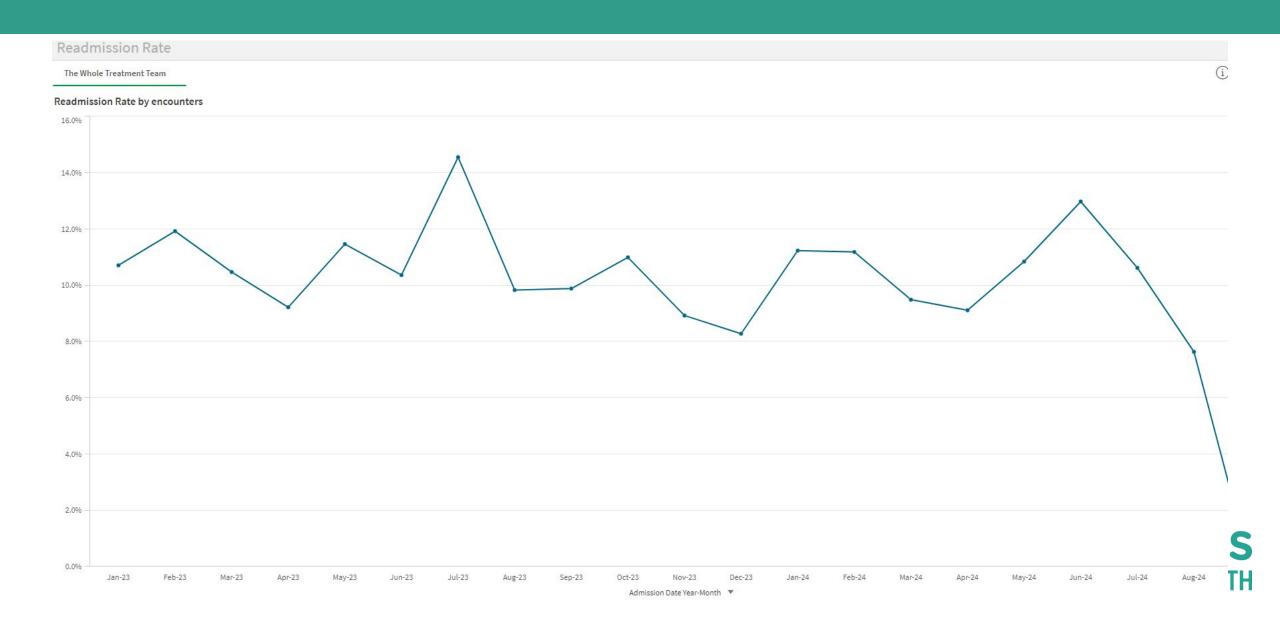
# Results | Discharge Efficiency







# Results | Readmission Rate



### Lessons Learned: Leading through Virtual Nursing Paradigm Shift

- Staffing Model
  - No one-size fits all
  - Unit-based vs Centralized
- Holding true to the Model
- Findings from VRN related to errors and/or documentation gaps
- Results include "Great Catches" due to increased thoroughness
- Leveraging a VRN huddle
- Engaging Key Stakeholders
- Emerging Quality Improvement Projects
- Expansion of Virtual Care

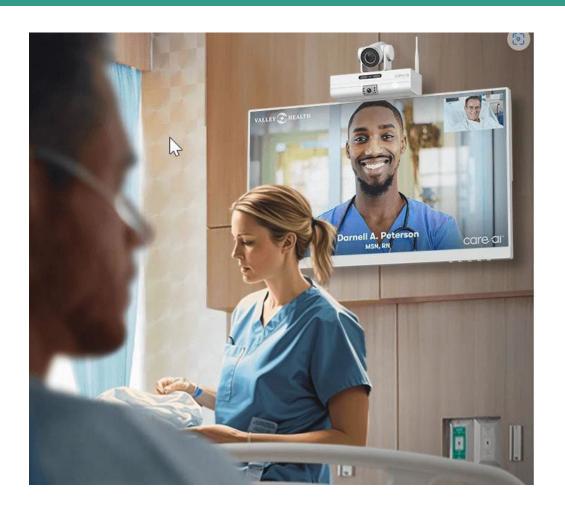


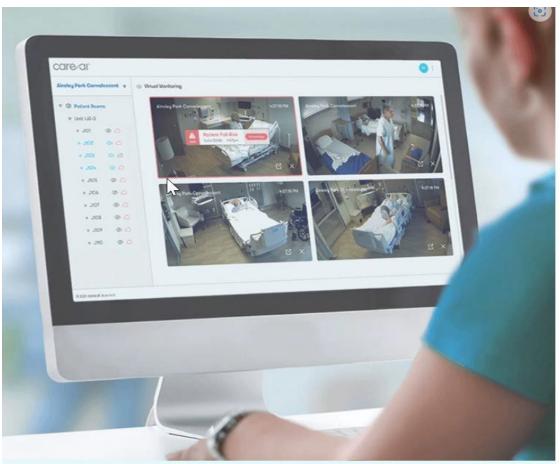
### Next Steps



- Develop plan for sustainability of full-scale model
- Future state to include:
  - Expand Virtual Care model to include Pharmacy by year end.
  - Expand Virtual Care model to include ICU by year end.
  - Implement Care A.I.® two-way camera technology by year end
  - Pilot enterprise specialty/service line virtual nurse model by year end (HemOnc, Endocrine, or Rehab).

# Looking into the Future: Virtual Care Program







There have been multiple instances where we have discovered that the patient's caregiver at the bedside is not their legal guardian. We have then escalated to the bedside nurse and done verbal phone consent for discharge to bedside caregiver

We have been working on accurate medications lists on discharge paperwork. There have been many times where medications are listed 2, 3, 4x with different dosages. These have been corrected prior to discharge

We have identified families with food insecurities at home that were not previously disclosed. We escalated and provided them with resources...

Team put WRONG safety person name on patient's dc instructions of DFS case. Had to clarify with social work prior to discharging.

Noticed there were no discharge instructions on how to care for patient's bedsore. Escalated and added to instructions prior to discharge

At discharge, mom notified VRN that the metformin dose ordered/given during admission was 2x the dose ordered for home.

MD ordered Pulmicort flex haler for 2 year old patient. 2 year olds are unable to use flex halers so MD needed to order Pulmicort neb treatments and nebulizer for home.

Patient was being DC home with a foley catheter and there were no instructions for foley care or what signs and symptoms to look out for and who to call if any issues. Escalated and Foley care DC instructions were placed. Parents were thankful and patient was discharged home.

Patient being discharged with chronic medical history and order place for home O2. Note mentioned possible delays due to changes in DME companies. MD discharge note states that "discharged with plan for oxygen to be delivered in the next few days in case he needs it with another illness".. Family unaware of plan. Able to escalate and clarify dc needs and loop in Case management to confirm delivery.

I always have families open their delivered meds to bedside and review them. When mom opened the bag, patient had several medications delivered but was missing one of his medications, which was ordered, but not delivered. I made phone calls and clarified for the family that the medication was ready for pick up at home pharmacy

I was discharging a family here for dehydration, patient with developmental delay issues. While reviewing DC instructions with mom, I always ask are you comfortable going home, she stated not really. Mom expressed her concerns of patient not drinking well. Mom mentioned this is the first time someone is listening to her concerns. I escalated her concerns and the plan of care was adjusted prior to discharge.

# Questions?

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Follow us. @Nemours





#### **Final Reminders**

#### Evaluation

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### **Questions? Stay in Touch!**

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