



Remember When? A Historical Review of Clinical Technology at Children's National

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Session Objectives

**At the conclusion of the session
the participant will :**

**Review how use of technology
has evolved at Children's
National**



Dedicated in memory of
Maggie Cox, MS, RN

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In the Beginning

- In 1993-1994, a Lab “dumb terminal” computer was used to obtain lab results.



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Early hardware in use



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BIG computer change in 1997

Children's National embarked on their first interactive clinical computer system which included:

- ADT system enterprise wide (admission, discharge and transfer)
- Billing system
- Utilization management
- Results interface
- Order entry interface (entered from paper by RN or Unit Clerk)
- Statistics and trending data

*This was the beginning of what is known today as Nursing Informatics – 3 nurses were selected to work on this project with no real experience in computer technology but years of clinical experience.

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The real phase 1

- Nurses used a computer to verify written orders, print work sheets and patient labels. Paper Rules!



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As a profession, we evolved

- We began to ask questions of our practice
- We collaborated and implemented Shared Nursing Leadership
- We began a program to “grow” and nurture our new graduates
- We recognize expertise and proficiency with our clinical ladder
- We invested in research and collaborative practice
- We define and strive for a safe care environment
- Pediatric Trends was started to share excellence in pediatric care

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CTI Phase 1 Completed Solutions 2005

- Implemented in 12 months:
 - CPOE w/ Meds Integration
 - Basic Clinical Documentation (Allergies, Height, Weight, Vitals, I&O's)
 - Inpatient Pharmacy w/ eMAR and Dose Range Checking
 - Alerts & Rules
 - Two months of historical data (Demographics, Lab Results, Radiology Results)



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New Computers



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New East Patient Tower Opens 2007



Six inpatient units moved to floors 3,4, and 5.

The NICU just moved May 18th to the 6th floor.

The remaining inpatient units move by 2010.

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State of the art technology



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CTI Phase 2 Completed Solutions 2008

- Implemented in 2008:
 - Full inpatient Nursing and Ancillary documentation
 - Full Physician inpatient documentation
 - HR Monitor and ventilator interface to flowsheet
 - Emergency department tracking board, CPOE, and full documentation, Discharge Instructions & Prescriptions
 - Surgical Services - Scheduling, Case Tracking, Billing
 - Medical Records - Transcription, Electronic Signature, Deficiencies



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What is in the future?

- Primary Care implementation of a new computer system
- School nurses implementation of a new computer system
- Smart IV pumps
- Perioperative documentation
- Phase 3 – BCMA
- Centralized refrigerator temperature monitoring
- Always upgrades to the current systems and hardware!

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Ideas for old computer use



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Please Recycle!!



- Thank You!
- Next: Dr. Patti Abbott

