FACILITIES

- Current Labor and Delivery and nurseries opened in 1980
- Facilities not competitive in present marketplace
- New facilities to be commensurate with the high quality of obstetrical and neonatal care provided
- Tertiary Care Center – high risk obstetrics and normal obstetrical care
PLAN

- Improved interior design
- Larger space

Maternity

26,800 gsf

Neonatal care

24,000 gsf

Pediatric Intensive Care

13,200 gsf
OBSTETRICAL SUITES:
MATERNITY CENTER

- 6th and 7th floor Pappajohn
- 8 Labor/Delivery/Recovery and intensive antepartum care rooms
- 4 triage/recovery rooms
- 2 operating rooms
- 1 ultrasound room
- 20 antepartum and postpartum beds
- Latest fetal monitoring system
- Proximity to blood bank
HOME-LIKE ENVIRONMENT

- Family friendly waiting areas
- Whirlpool baths
- Custom beds
- Refrigerators
- Room service with a-la-carte menus
- TV sets, DVD players, internet access
- Mother and baby together in room, same nurse
NURSING PERSONNEL

- Magnet Award for Nursing Excellence
- Parenting education programs
- Lactation consultants
- Mother's Milk Bank of Iowa
OBSTETRIC PERSONNEL

- Nurse midwives
- Family physicians
- Obstetricians
- Maternal-Fetal Medicine sub-specialists
  (high risk obstetricians)
- Staff obstetricians and anesthesiologists in house 24/7
- All other specialists available as needed
STAFF OF UIHC

- Largest number of high risk pregnancy specialists of any hospital in the state
- Faculty of College of Medicine
- Write journal articles and textbooks
- Provide training and continuing education of students, residents, and fellows
- Community and statewide outreach programs
- UI Consults through Integrated Call Center
SUMMARY

- New facilities enhance obstetrical experience for all patients
- Improved facilities for employees—workplace of choice
- Joint Commission on Accreditation of Healthcare Organizations (JCAHO):
  "Patient centered initiative for safety and quality"
Children's Hospital of Iowa
Neonatal Intensive Care Unit (NICU)

- 600 premature and critically ill babies per year
- 18,000 served since first UIHC Neonatal ICU opened in 1974
- 95% of our patients born to Iowans
- 65% born at UIHC, 35% transported from other hospitals
Children's Hospital of Iowa
Neonatal Intensive Care Unit (NICU)

• First UIHC dedicated NICU - 1974
• Moved to present area in 1980
• Before 1980:
  – Sickest babies died quickly
  – Less technology and equipment
  – Parent visitation limited
• Only minor remodeling since 1980
Children's Hospital of Iowa
Neonatal Intensive Care Unit (NICU)
Children's Hospital of Iowa
Neonatal Intensive Care Unit (NICU)
Children's Hospital of Iowa
Neonatal Intensive Care Unit (NICU)

- Old NICU: 40 sq. ft. per baby
- National Standard for NICU Design, 1999: minimum 120 sq. ft. per baby
- New NICU: 140-160 sq. ft. per baby

- Old NICU: 6 to 15 babies per room
- New NICU: 1 baby per room, suites for twins and triplets
Children’s Hospital of Iowa
Neonatal Intensive Care Unit (NICU)

- Old NICU
  - Capacity 46 babies
  - Average occupancy 90%

- New NICU
  - Capacity 55 babies
  - Average occupancy ?
Children's Hospital of Iowa

Neonatal Intensive Care Unit (NICU)

- Provides comfortable space for families
- Promotes development of attachment
- Prepares parents better to assume care of baby at discharge
- Possibly shortens length of stay
- Improves staff-parent communication
- Increases success of breastfeeding, which improves infant health outcomes
Children’s Hospital of Iowa
Neonatal Intensive Care Unit (NICU)

Space for Families

• Old NICU
  – 1988-present: 300 sq. ft.

• New NICU
  – 1200 sq. ft.
Survival of Preterm Infants at the Children's Hospital of Iowa, 1998-2002
# Outcomes of Preterm Infants at the Children's Hospital of Iowa

<table>
<thead>
<tr>
<th>Gestational age (weeks)</th>
<th>Survival (%)</th>
<th>Handicapped (% survivors)</th>
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<tr>
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</table>

* Cerebral palsy, mental deficiency, blindness, or deafness
STANDARDIZED MORTALITY RATIOS (SMR)
VERMONT OXFORD NETWORK 2002

Children's Hospital of Iowa: SMR = 0.42 (4th percentile)

407 NETWORK CENTERS

- CENTER 381

VERTICAL BAR REPRESENTS 95% CONFIDENCE INTERVAL
NOTE: SOME PREDICTOR VARIABLES AT YOUR CENTER HAD MISSING OBSERVATIONS.
THIS REDUCES THE RELIABILITY OF THE ESTIMATES.

FIGURE 6.3