Neonatal Intensive Care at Karolinska University Hospital Huddinge, Sweden

Family-Centred Care
The Neonatal Intensive Care Unit (NICU) at Karolinska University Hospital in Huddinge

(Karolinska – one hospital, two main sites: Huddinge and Solna)

Locum AB, Proj.nr. 94H19008
Huddinge sjukhusområde 2009-05-18
Reconstruction for neonatal intensive care, ward K76/78

Country: Sweden
Location: Karolinska University Hospital / Huddinge, 141 86 Stockholm
Population served: 1.9 million.

The wards for neonatal inpatient care at Karolinska University Hospital are located at Danderyd Hospital, Karolinska in Solna, and Karolinska in Huddinge. Population: 1.9 million.

Together the wards care for about 2,200 children (corresponding to about one quarter of all neonatal care in Sweden). In all, about 500 employees staff these three units.

Type of healthcare facility: University Hospital Neonatal Intensive Care Unit (NICU).
Type of construction: Reconstruction.
Construction start date: 2009.
Construction completion date: The reconstruction was carried through in 6 phases from May 2009 to April 2011.
Gross floor area: 2350 m² (administration/offices included).
Project, design and construction cost: 43 million SEK.

Total bed numbers:
- **Intensive care**: 12 beds/incubators that allow nurses to carefully monitor babies in a centrally organized location while ensuring family privacy in private rooms. Sound-absorbing ceiling and rubberbacked flooring absorb and suppress sounds.
- **Family care**: 14 beds in private rooms including beds for parents.
- **Isolation care**: 2 beds in private rooms including beds for parents.
- **Care for child and mother**: 4 beds private rooms including beds for parents.

Total bed numbers: 32
In addition to the equipment necessary to monitor the most vulnerable children, the ward is designed to enhance focus on family-centred care.

Client/owner

Client: Karolinska University Hospital, Stockholm. Department Lokal- och byggplanering.

Owner: Landstingsfastigheter, Stockholm.

Client/owner contact

Client contact (head of department) at Lokal- och byggplanering: richard.kozak@karolinska.se

Capital procurement route

Public funding.

Project management

Locum AB

fredrik.hagel@locum.se

Architects

Architects Initial planning in Design dialogue:

Peter Fröst, Christer Ädelqvist, Jenny Ryding Garmland.

Architects Production:

GAAB, GRANSTRÖMS ARKITEKTKONTOR AB
Pepparvägen 26, 123 56 Farsta
E-mail: gaabark@telia.com

Contractor

TEMACUS AB Svarvarvägen 30, 142 50 Skogås.

Services

Neonatal intensive care.

Key facts

100% single patient rooms and privacy for parents/families.

There are many family-friendly spaces and amenities in the NICU for additional support and comfort for families thrown into a world of intensive care. Family lounges, consultation rooms for meetings with physicians, private family rooms and a family kitchen are several convenient amenities.

Additionally, each room has sleeping accommodation for two family members, plus adequate storage, a desk and data ports so families can comfortably stay with children.

Internet connections and on-demand movies and video games are also provided. Built-in (versus wheeled-in) medical equipment eliminates storage issues and allows room for more sophisticated bedside technology.
Positive outcomes as a result of 5 years planning:
- patient safety
- parents can stay at hospital together with their newborn child
- parents and staff are partners in care of children
- parents feel safe → shorter length of stay, higher efficacy
- privacy for parents
- safe and modern working environment
- healing and family friendly environment

Evaluation

In October 2011 the staff had opportunity to evaluate the reconstruction. On a scale from 0-5 (5 = top note) the staff gave highest rank to every question posed. But in a perspective they should have discussed/planned for the opportunity to take care of twins in the NICU.