TOWERA Stacking and Adjacencies

SCHEMATIC DESIGN - FEBRUARY 15, 2024

VERTICAL PROXIMITY BETWEEN MIU AND L&D 🞯 🚱 🙆 🖓 🏠 🗸 📩

The Postpartum / Mother Infant Unit is located on Level 05 to enable team members to quickly travel to and from Labor and Delivery. Proximity between these floors also better positions the postpartum unit to accommodate antepartum overflow.

- Increased safety during rapid code response
- Reduced travel distances for care team staff
- Enhanced team collaboration
- Increased flexibility

ADJACENCY BETWEEN L&D AND NICU

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The NICU is located on Level 04 for vertical proximity to the Labor and Delivery Unit. This proximity ensures the shortest travel distance possible for NICU infants, as well as immediate access to Labor and Delivery for the NICU team.

- Increased safety and rapid response during resuscitation . events
- Increased family satisfaction

LEVEL 03 CONNECTION TO ROBERTS PAVILION SURGERY

The Labor and Delivery Unit is located adjacent to the operating rooms on Level 03 of Roberts Pavilion so that, in the case of more than two simultaneous c-sections, the Labor and Delivery unit can utilize Roberts ORs.

- Optimized space utilization
- Ability to leverage Roberts ORs for multiple c-sections in during simultaneous, unscheduled emergencies
- Improved access to sterile supplies

EARLY INTERVENTION FOR HIGH RISK MOMS

An on-site Maternal Fetal Medicine (MFM) clinic is maintained in response to a recent rise in maternal mortality in the U.S. Early identification and intervention for high-risk moms can improve outcomes.

Improved patient health outcomes

GUIDING PRINCIPLES





K Flexibility

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User Feedback

Precedents

University Health Care



COOPER UNIVERSITY HOSPITAL - PROJECT IMAGINE

ADJACENCY BETWEEN TRAUMA STEP DOWN AND TRAUMA ICU

A 9-bed Trauma Step Down unit is located on Level 10, adjacent to the Trauma ICU. This positioning is intended to allow for a direct transition from ICU to Step Down while also allowing increased collaboration between the two units.

- Shorter distances for patient transport
- Increased team cohesion and collaboration
- Greater flexibility

VERTICAL ADJACENCY BETWEEN PEDS AND PICU



The Pediatric/Pediatric Intermediate Care Unit is located directly below the Pediatric Intensive Care Unit to facilitate team member access between units and the sharing of key clinical support spaces.

- Reduced travel distance •
- Increased team collaboration
- Improved space utilization •

CONNECTION TO ROBERTS PAVILION ON EACH LEVEL



Every floor connects back to Roberts Pavilion to allow staff to easily traverse between units. The connection to Roberts Pavilion is also intended allow connection to future Towers B&C.

- Shorter travel distances for staff
- Increased team cohesion and collaboration
- Flexibility for future connection to Towers B&C



https://www.commonwealthfund.org/publications/issue-brief-report/2020/dec/maternal-mortality-united-statesprimer#:~:text=During%20pregnancy%2C%20hemorrhage%20and%20cardiovascular.infection%20is%20the%20leading%20





COOPER UNIVERSITY HOSPITAL - PROJECT IMAGINE

PRIVATE PATIENT ROOMS 🛃 🖓 🔞 🔍 🗳 🔀

Labor and delivery rooms are right-sized and standardized with space for infant and mother. Antepartum rooms are private with ample clearances. Private patient rooms reduce falls by 66%.

- Spatial capacity for bedside procedures
- Increased patient and family satisfaction
- Improved room utilization
- Improved workflow for staff

STANDARD CLINICAL CORE

A standardized clean supply, medication room, and nourishment alcove are located on either end of the unit on every floor to minimize walking distances and limit time spent searching for supplies. Entries are located at off-stage corridors for easy cart deliveries and to limit disruption to patient rest.

- Reduced walking distances
- Increased staff satisfaction
- Increased time spent in direct patient care
- Reduced noise levels

INTERPROFFESIONAL MODEL (2)

The central workstation has multiple options for focused to collaborative work, including an individual enclave room, a large enclosed workroom for all team members, and open workstations for easy patient monitoring.

- Increased staff satisfaction
- Flexibility in work mode
- Increased interdisciplinary collaboration
- Improved visibility of patient rooms

CO-LOCATION OF TRIAGE & AND



Combination of triage and prep/recovery spaces supports adequate staffing, peer collaboration, spatial efficiency, and flexing patient care space to meet fluctuating volumes

- Optimize space utilization
- Improve staff experience
- Provide flexibility





infant care stations available, to respond to the rise of premature







EXHIBIT B1 - SD DESIGN INTENT DOCUMENTS

TOWER A L09 - Pediatric / PIMU

SCHEMATIC DESIGN - FEBRUARY 15, 2024

FAMILY RESPITE

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Two family respite areas are located at either end of the to allow family members to take a break or leave the pati room during patient care.

- Increased patient and family satisfaction •
- Improved staff workflow •

MEDICAL EDUCATION ROOM

A medical education room is located on the unit and nea central workstation to provide learners a dedicated space

- Enhance opportunity for integrated, in-situ learning
- Greater connectivity to staff and educators
- Increased learner satisfaction •

LOCKER AND LOUNGE LOCATION

The staff locker room is located for direct access off the elevators and the lounge is located for access to daylight. Additional spaces to support staff include a lactation room respite room, and on-call suite within the unit. These space are intenteded to improve staff experience in response to rising trends in staff burnout. Staff turnover can cost more \$62,100 per nurse.

- Increased staff satisfaction .
- Reduced staff burnout .
- Increased staff retention .

CONTROLLED ACCESS FAMILY WAITING AREA

A family waiting area is located directly of the public elevat with the option for controlled entry into the unit. Location of PSR desk allows for monitoring of families entering and exi the unit.

· Increased safety and security

GUIDING PRINCIPLES





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ality of Care		Sa

MLK BLVD	C
A ST THE MDA	POSITION OF PATIENT ROOMS $\bigcirc \bigcirc \bigcirc \bigcirc \checkmark \checkmark$
PARKING PARKING	 Patient rooms are located to maximize views on MLK Boulevard and Haddon Avenue. No patient rooms are located parallel to Roberts to protect patient privacy and ensure patients in Tower A do not have direct sight lines into patient rooms in Roberts. Optimized daylight and views Increased patient privacy
MLK BOULEVARD	FAMILY SPACE
r the the PT	ANCILL'ÁRY SUPPORT SPACE
	18 VÉRTICAL CIRCULATION/ SHAFT
	MECHANICAL/ELECTRICAL
	17 CIRCULATION
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RATIONALE	
	 Jones, C. B. (2004). The costs of nurse turnover: Part 1: An er Price, A. D.F., Lu, J. (2012). Impact of Hospital Space Standar 2010. Pressler. Universal Patient Care Rooms. Pati D. et al (2009). A Multitimensional Framework for Asses
() Evidence Set Practice	V / INNOVATION

Evidence

Precedents

User Feedback

- Flexibility

- Surgical Oncology: 20(3), 146-154. DOI: https://doi.org/10.1016/j.suronc.2011.06.004
- Medical Weekly: 140:w13062. DOI: https://doi.org/10.4414/smw.2010.13062



COOPER UNIVERSITY HOSPITAL - PROJECT IMAGINE

TEAM HUDDLE SPACE



- Increased team collaboration
- Increased staff and learner satisfaction
- Minimized disruption to patient rest
- Maximized visibility .

STANDARDIZED SUPPORT CORE	<u> </u>	' ☆

A standardized clean supply, medication room, and nourishment alcove are located on either end of the unit on every floor to minimize walking distances and limit time spent searching for supplies. Entries are located at off-stage corridor for easy cart deliveries and to limit disruption to patient rest.

- Reduced walking distances
- Increased staff satisfaction •
- Increased time spent in direct patient care
- Reduced noise levels

SPLIT ACCESS NOURISHMENT



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The nourishment zones are zoned with an entry alcove to allow family members to access key items (ice, water, snacks). A secondary, locked room provides secure storage of patientspecific dietary items.

- Increased family satisfaction
- Decreased staff interruptions
- Improved workflows

WORKSTATION CHOICE



The central workstation has multiple options for focused to collaborative work, from individual enclave rooms, to enclosed but transparent team workrooms, and open workstations for easy patient monitoring. Charting alcoves further diversify workstation opportunities.

- Increased staff satisfaction
- Flexibility in work mode
- Increased interdisciplinary collaboration
- Improved visibility of patient rooms

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rdization on Patient Health and Safety. Architectural Engineering and Design Management, 9(1), 49-61.

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TOWERA Typical Labor & Delivery Room

SCHEMATIC DESIGN - FEBRUARY 15, 2024

DISTINCT FAMILY ZONE

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RATIONALE

Evidence

Precedents

A large sleeper sofa is located in a distinct, recessed area close to the patient.

Increased privacy for family

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- Enhanced patient wellbeing
- Increased family participation .
- Increased clear space for care teams

STANDARDIZED HEADWALL

Headwall with medical gases and utilities on either side of the bed utilizes a standard layout across units.

- Optimized safety for patient care
- Reduced number of errors
- Improved ergonomics and clinical workflow
- Increased standardization and consistency
- Increased modularity

INFANT ZONE NEAR MOTHER

Infant resuscitation zone is located adjacent to the mother and along the headwall.

- Standardized footwall maintained
- Increased space for both NICU and L&D Teams
- Increased patient privacy

CORRIDOR PPE CABINETS

GUIDING PRINCIPLES

Exceptional Quality of Care

Efficiency

PPE cabinets are located at each patient room with direct access from the corridor. Soiled linen cabinets are accessed from within the room.

Experience

Safety

- Increased access to point of care supplies •
- Reduced walking distances for staff
- Improved safety and infection control practices

OUTBOARD TOILET ROOM

Patient toilet room is located along the exterior wall.

- Improved clinical workspace in the room
- Increased visibility and patient monitoring
- Enhanced entry into patient room
- Improved patient access to toilet room.

ACCESS TO DAYLIGHT There is access to indirect daylight from within the care space. • Improved staff and family experience Regulated circadian function Improved patient outcomes TLT, TOILET ROOM AT FOOTWALL PAT There is direct visibility into the toilet room from the ADA patient bed. LDR CLEARANCE Reduced patient falls • Reduced rates of incontinence Increased patient control and agency LDR Increased patient access to daylight and views Improved access to headwall for staff DOOR TYPE AND ORIENTATION Entry into the room includes dual leaf swing doors that open facing the footwall. Improved patient privacy INFANT Increased ease of entry RESUSCITATION AREA ANGLED CHARTING ALCOVE 😵 😂 🕅 🔍 🖞 🗸 Charting alcoves are located at the footwall with angled windows and space for two people. Increased visibility and patient monitoring Reduced disruptions to patient rest Increased staff and patient/family satisfaction Space for learning and collaboration

Innovation

Simulation

Best Practice

User Feedback

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Pati, D. et al. (2009). A Multidimensional Framework for Assessing Patient Room Configurations. HERD: 2(2), 88-111. Nanda, U. (2014). In-board vs. Outboard; Headwall vs. Footwall; Same-Handed vs. Mirrored. CADRE. Synthesis No. 0001. Hendrich, A.L., Fay J., Sorrells A.K. (2004). Effects of acuity adaptable rooms on flows of patients and delivery of care. American Journal of Critical Care, 13(1): 35-45. Grimes, C., Meilink, L. (2017). The Decentralized Station: More Than Just Patient Visibility. Academy of Architecture for Health. No. 19. pg. 40-45. Arango, Polly. (2011). Family-Centered Care. Academic Pediatrics 2011;11:97-99. Pati, D. et. al. (2012). The Biomechanics of Patient Room Standardization. Health Environments Research & Design Journal. 5(2):29-45. Nejati, Adeleh. (2014). Medical Gas Booms, Columns, and Headwalls: Usage, Benefits, and Challenges - Evidence Inconclusive. Center for Advanced Design Research and Evaluation. Synthesis No. 0003. Pope Architects, Inc. & Michael Gaves Architecture & Design (2014). The Falls Assessment Research Report: Creating a Safe Environment to Prevent Toileting-Related

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COOPER UNIVERSITY HOSPITAL - PROJECT IMAGINE

FAMILY SPACE PATIENT CARE SPACE VIEW TO EXTERIOR

CHARTING ALCOVE PPE CABINET STAFF WORK ZONE









COOPER UNIVERSITY HOSPITAL - PROJECT IMAGINE

CHARTING ALCOVE PPE CABINET STAFF WORK ZONE

There is access to indirect daylight from within the

Improved staff and family experience Regulated circadian function

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A large sleeper sofa located in a distinct, recessed

Increased privacy for family

- Enhanced patient wellbeing
- Increased family participation
- Increased clear space for care teams



The layout of the footwall follows the standard layout used across other single patient rooms.

Increased staff satisfaction

Improved clinical workflow

Increased standardization and consistency

ANGLED CHARTING ALCOVE 🔮 🖉 🖓 🔍 $\stackrel{\circ}{\sqcup}$

Charting alcoves are located at the footwall with angled windows and space for two people.

Increased visibility and patient monitoring Reduced disruptions to patient rest Increased staff and patient/family satisfaction Space for learning and collaboration

Feeley, N., Robins, S., Genest, C., Stremler, R., Zelkowitz, P., & Charbonneau, L. (2020). A comparative study of mothers of infants hospitalized in an open ward neonata



	RATIONALE		 Patr, J. et al. (2009). A Multidimensional Framework for Assessing Patient RC Linam, W. M., Marrero, E. M., Honeycutt, M. D., Wisdom, C. M., Gaspar, A., & Respiratory Viral Infections in a Neonatal Intensive Care Unit. Pediatric Quali 	
Efficiency Experience	Evidence	Best Practice	Innovation	 Grimes, C., Meilink, L. (2017). The Decentralized Station: More Than Just Pa Arango, Polly. (2011). Family-Centered Care. Academic Pediatrics 2011;11:97 Pati, D. et. al. (2012). The Biomechanics of Patient Room Standardization. H Nejati, Adeleh. (2014). Medical Gas Booms, Columns, and Headwalls: Usage and Evaluation. Synthesis No. 0003.
Exceptional Quality of Care Safety	Precedents	OUser Feedback	Simulation	 Summary of the relationships between design factors and healthcare outcom VanHeuvelen J. Isolation or interaction: healthcare provider experience of de Feeley N, Robins S, Charbonneau L, Genest C, Lavigne G, Lavoie-Tremblay pod and single-family room design. Adv Neonatal Care. 2019;19(5): 416-424



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FAMILY SPACE PATIENT CARE SPACE VIEW TO EXTERIOR

CHARTING ALCOVE PPE CABINET STAFF WORK ZONE

ACCESS TO DAYLIGHT There is access to indirect daylight from within the

Improved staff and family experience Regulated circadian function

CHARTING ALCOVE



Charting alcoves are located at the center of the 4-bay module and between two bays.

Increased visibility and patient monitoring Reduced travel distances for staff Increased staff and patient/family satisfaction Improved infant safety

HALF HEIGHT WALL



Half height wall is located between NICU bays with full

 Increased visibility and patient monitoring Increased access to daylight for all bays

🚱 🔍 🗸 🏠 FAMILY/VISITOR RECLINER A recliner for mother-baby activities is provided in the

 Increased family engagement in infant care Increased participation in baby initiative activities (i.e.

breast feeding, skin-to-skin, and kangaroo care)

k for Assessing Patient Room Configurations. HERD: 2(2), 88-111. sdom, C. M., Gaspar, A., & Vijayan, V. (2019). Focusing on Families and Visitors Reduces Healthcare Associated Care Unit. Pediatric Quality & Safety, 4(6), e242. https://doi.org/10.1097/pq9.00000000000242 ation: More Than Just Patient Visibility. Academy of Architecture for Health. No. 19. pg. 40-45. mic Pediatrics 2011:11:97-99

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TOWERA Typical Patient Room

SCHEMATIC DESIGN - FEBRUARY 15, 2024

DISTINCT FAMILY ZONE

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A large sleeper sofa is located in a distinct, recessed area close to the patient.

Increased privacy for family

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- Enhanced patient wellbeing
- Increased family participation .
- Increased clear space for care teams

STANDARDIZED HEADWALL

Headwall with medical gases and utilities on either side of the bed utilizes a standard layout across units.

- Optimized safety for patient care
- Reduced number of errors
- Improved ergonomics and clinical workflow
- Increased standardization and consistency
- Increased modularity

DOOR TYPE AND ORIENTATION

Entrance into the room includes dual leaf swing doors that open facing the footwall.

- Improved patient privacy
- Increased ease of entry

CORRIDOR PPE CABINETS

PPE cabinets are located at each patient room with direct access from the corridor. Soiled linen cabinets are accessed from within the room.

- Increased access to point of care supplies •
- Reduced walking distances for staff
- Improved safety and infection control practices



OUTBOARD TOILET ROOM

Patient toilet room is located along the exterior wall.

Improved clinical workspace in the room

Increased visibility and patient monitoring

Enhanced entry into patient room Improved patient access to toilet room. 😕 🖪 🔍 🗸 🏠

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COOPER UNIVERSITY HOSPITAL - PROJECT IMAGINE

FAMILY SPACE PATIENT CARE SPACE VIEW TO EXTERIOR

CHARTING ALCOVE PPE CABINET STAFF WORK ZONE

ACCESS TO DAYLIGHT

There is access to indirect daylight from within the

Improved staff and family experience Regulated circadian function Improved patient outcomes

TOILET ROOM AT FOOTWALL



There is direct visibility into the toilet room from the patient bed.

Reduced patient falls

- Reduced rates of incontinence
- Increased patient control and agency
- Increased patient access to daylight and views
- Improved access to headwall for staff

UNIVERSAL CLEARANCES



The room is sized to accommodate med/surg. intermediate care, and intensive care clearances.

Staged for future flexibility Reduced need for patient transport Improved standardization and consistency Reduced medical errors

ANGLED CHARTING ALCOVE 🔮 😂 🕅 🔍 🖞 🗸

Charting alcoves are located at the footwall with angled windows and space for two people.

Increased visibility and patient monitoring Reduced disruptions to patient rest Increased staff and patient/family satisfaction Space for learning and collaboration

TOWERA Pedicatric Intensive Care

SCHEMATIC DESIGN - FEBRUARY 15, 2024

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Improved clinical workspace in the room

Increased visibility and patient monitoring

Enhanced entry into patient room Improved patient access to toilet room.





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- Increased privacy for family
- Enhanced patient wellbeing
- Increased family participation .
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GUIDING PRINCIPLES

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Pati, D. et al. (2009). A Multidimensional Framework for Assessing Patient Room Configurations. HERD: 2(2), 88-111 Nanda, U. (2014). In-board vs. Outboard; Headwall vs. Footwall; Same-Handed vs. Mirrored. CADRE. Synthesis No. 0001. Hendrich, A.L., Fay J., Sorrells A.K. (2004). Effects of acuity adaptable rooms on flows of patients and delivery of care. American Journal of Critical Care, 13(1): 35-45. Grimes, C., Meilink, L. (2017). The Decentralized Station: More Than Just Patient Visibility. Academy of Architecture for Health. No. 19. pg. 40-45.

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RATIONALE



Precedents

Best Practice

User Feedback

Simulation

Innovation

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COOPER UNIVERSITY HOSPITAL - PROJECT IMAGINE

FAMILY SPACE PATIENT CARE SPACE VIEW TO EXTERIOR

CHARTING ALCOVE PPE CABINET STAFF WORK ZONE

ACCESS TO DAYLIGHT

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UNIVERSAL CLEARANCES



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Staged for future flexibility Reduced need for patient transport Improved standardization and consistency Reduced medical errors

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