Patient Room of the Future

Team Delta

June Connor, Jason Dooley, Jenna Schmidt, Ted Ullrich
Introduction

June Connor –

Jason Dooley – Masters of Architecture Student

Jenna Schmidt – Masters of Industrial Design Student

Ted Ullrich – Masters of Industrial Design Student
our Method

• During our visit to Emory Crawford Long Hospital we examined and documented all the equipment and technology that was present in the room and also devices brought into the room.

• We also thought it was important to talk with a group of nurses and get their criticisms and suggestions for a future patient room.

• In order to show several relationships among the existing equipment we compiled our data into a spreadsheet format.
our Method

• We broke the spreadsheet down into 10 categories that we used as a basis to compare the equipment and technology.
  • Used by: Nurse, Patient or Family
  • Mobility: Wheels, Leaves Room
  • Information: Audible, Visual
  • Other: Electronic, High Frequency Use, Disposable

• The advantage of this approach is that we have a visual comparison of equipment that we can utilize to see patterns and relationships and help make the room as efficient as possible. In addition to the spreadsheet, we talked with nurses and now have a better understanding of the existing successes and failures within the current system.

• After reviewing the spreadsheet, we came up with 5 specific concepts that we felt were important improvements and could ultimately make this room better.
# Inventory

## Patient Room of the Future

### Equipment Inventory Analysis

**Team Delta**

<table>
<thead>
<tr>
<th>Item</th>
<th>Used By</th>
<th>Mobility</th>
<th>Information</th>
<th>Other</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bed</strong></td>
<td>Nurse</td>
<td>Patient</td>
<td>Family</td>
<td>Wheels</td>
<td>Leaves Room</td>
</tr>
<tr>
<td>Bed - Mattress</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Blood Glucose Monitor</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Blood Pressure Sphyg, w/ cuffs</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Blood Sugar Check (Accuchek)</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Board - marker</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Board - tack</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Box of Gloves</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Crash Cart</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Defibrillator</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>EVA utility basket</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>IV - pump</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>IV rack - bed</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV rack - rolling pole (EXACTO)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Light - above sink</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Light - Overbed</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Monitor - Radio frequency</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Nurse Call - button</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Nurse Call - intercom</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Outlets - bed headwall</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Outlets - other</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Outlets - Sink</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Paper Towel Dispenser</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Remote - ALL IN ONE</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Remote - lights</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Remote - nurse call</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Remote - television</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Scale</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Scale - Sling</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Shmrs Container</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Sink &amp; Faucet</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Sleeper Sofa</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Soap - Evaporating</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Soap - Sinkside</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Storage Unit - around sink</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Suction Canister</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Suction Regulator</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Table - bedside (nightstand)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Table - Overbed</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Telemetry Transmitter</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Telephone</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Television</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Thermometer</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Trash Can</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Visitor Chair</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Wireless Internet</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

Total Price: $42,968.56
Inventory

• Highlight interesting relationships, patterns
• show venn diagram
Nurse Suggestions & Criticisms

1) Wider and Deeper rooms so equipment can be easily transferred in and out.
2) Removal of cupboards/ storage under the sink (against health regulations).
3) IV Pump in every room.
4) Better way to display information for the patient (meal schedules, visitor hours, etc)
5) Covers for oxygen, suction canisters and vacuum ports.
6) Window Seat with storage that can also transform into a bed for the family.
7) Recliner for patients, or a bed that bends into a chair.
8) Single remote control for patient aspects of the room, including window blinds.
9) Better Heat/ Air flow (raise the vents above the window instead of on the floor behind the sofa).
10) Scale integrated into each bed.
Synthesis

• Compare our findings with nurse’s criticisms and suggestions
Concepts

• Multiple Instances/locations for high-frequency use items. Example: remotes, intercoms, possible wireless interfaces

• Low frequency and non-mobile items: group these into built-ins. Example: bay seat with bed and storage

• Universal IV pole – one pole w/ multiple uses - for bed attachment, rolling stand mounting, and ceiling mounting

• Separate service from healing. This breaks into A) grouping disposability items, B) information center, and C) high frequency items positioned up-front. The over-riding idea is to conceal from the patient what they don't have to see, including things like suction canister, sharps, thermometer, etc. and make visible what they should see like info center.

• Overall Consolidation where possible - grouping or combining similar items together to fit more into a smaller space. Finding instances where equipment could be combined (integrated into each other) so that the items when brought in or taken out, would be more portable, condensed, & hopefully easier to use
Photos
Photos
Photos
Photos
Conclusion

- Method
- Procedure
- Results
Patient Room of the Future

Team Delta
Introduction

Jason Dooley – Masters of Architecture Student

Jenna Schmidt – Masters of Industrial Design Student

Ted Ulrich – Masters of Industrial Design Student

June Connor – Masters of Nursing from Emory,
            Nurse at Emory Crawford Long Hospital
our Method

• During our visit to Emory Crawford Long Hospital we examined and documented all the equipment and technology that was present in the room and also devices brought into the room.

• We also thought it was important to talk with a group of nurses and get their criticisms and suggestions for a future patient room.

• In order to show several relationships among the existing equipment we compiled our data into a spreadsheet format.
our Method

• List all equipment; analyze each piece with 10 categories as a basis of comparison.
  • [Used by:] Nurse, Patient or Family
  • [Mobility:] Wheels, Leaves Room
  • [Information:] Audible, Visual
  • [Other:] Electronic, High Frequency Use, Disposable

• Spreadsheet provides a visual comparison of equipment revealing patterns and relationships.

• Asking experts; nurses.

• Analyze information, looking for patterns to find 5 concepts.
<table>
<thead>
<tr>
<th>Item</th>
<th>Used By</th>
<th>Mobility</th>
<th>Information</th>
<th>Other</th>
<th>Description/Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bed</td>
<td>Nurse</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Bed - Mattress</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood Glucose Monitor</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>Measures Blood sugar by fingerstick, also used by nurse techs</td>
</tr>
<tr>
<td>Blood Pressure Sphyg, w/ cuffs</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>Measures Blood pressure with manual cuff and stethoscope</td>
</tr>
<tr>
<td>Blood Sugar Check (Accucheck)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Board - marker</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Area for staff/pt/family to leave instructions, contact info etc</td>
</tr>
<tr>
<td>Board - tack</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Area for staff/pt/family to leave instructions, contact info etc</td>
</tr>
<tr>
<td>Box of Gloves</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td>Needed for patient contact/procedures</td>
</tr>
<tr>
<td>Clock</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Crash Cart</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Device used to monitor and restart hearts</td>
</tr>
<tr>
<td>Defibrillator</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>EVA utility basket</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>External ventilatory mask - for mouth to mouth in emergency where stop breathing</td>
</tr>
<tr>
<td>EVA utility basket</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV - pump</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Device to deliver IV medications or fluids</td>
</tr>
<tr>
<td>IV rack - bed</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV rack - ceiling rack</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV rack - rolling pole (EXACTO)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Light - above sink</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Light - Exam/Headwall</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Light - Overbed</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monitor - Radio frequency</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Device to monitor heart rate, blood pressure, oxygen in blood</td>
</tr>
<tr>
<td>Nurse Call - button</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Used by all to summon help or communicate needs</td>
</tr>
<tr>
<td>Nurse Call - Intercom</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outlets - bed headwall</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outlets - other</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outlets - Sink</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxygen Regulator</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paper Towel Dispenser</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote - ALL IN ONE</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote - lights</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote - nurse call</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote - telephone</td>
<td>X</td>
<td>X</td>
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<td></td>
</tr>
<tr>
<td>Scale</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>Weigh pts able to stand alone</td>
</tr>
<tr>
<td>Scale - Sling</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>Weigh pts unable to stand</td>
</tr>
<tr>
<td>Sharps Container</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>Place contaminated or used syringes, needles, devices</td>
</tr>
<tr>
<td>Sink &amp; Faucet</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sneeze Bells</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>Has wheels and pulls out onto a bed for visitors</td>
</tr>
<tr>
<td>Soap - Evaporating</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soap - Sinkide</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage Unit - around sink</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>Against health regulations to store under the sink, mostly a waste of space</td>
</tr>
<tr>
<td>Suction Caroider</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Container to hold body fluids drained</td>
</tr>
<tr>
<td>Suction Reculator</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>Regulates suction pressure to catheters on patient</td>
</tr>
<tr>
<td>Table - bedside (nightstand)</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table - Overbed</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Telemetry Transmitter</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>Monitors patients heart rhythms for visual tracing at a central monitor</td>
</tr>
<tr>
<td>Telephone</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Television</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thermometer</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trash Can</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visitor Chair</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wireless Internet</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
• Heavily nurse oriented
• Many objects used by all
• No shared objects between family and nurse
Synthesis

Nurse Suggestions & Criticisms

1. Wider and Deeper rooms so equipment can be easily transferred in and out.
2. Removal of cabinets/storage under and around the sink (health regulations).
3. IV Pump in every room.
4. Better way to display information for the patient (meal schedules, visitor hours, etc).
5. Covers for oxygen, suction canisters and vacuum ports.
6. Window Seat with storage that can also transform into a bed for the family.
7. Recliner for patients, or a bed that bends into a chair.
8. Single remote control for patient aspects of the room, including window blinds.
9. Better Heat/Air flow (raise the vents above window; not on the floor behind sofa).
10. Scale integrated into each bed.
Synthesis

Overlap between Nurse’s suggestions and Chart

- Two sets of mind: Nurse’s needs vs. everyone’s needs
- Consolidation of items in the room
- Separate groups of items to enhance work flows
Concepts

5 Final Design Paths

1. Multiple Instances/locations for high-frequency use items. Example: remotes, intercoms, possible wireless interfaces. picture

2. Low frequency and non-mobile items: group these into built-ins. Example: bay seat with bed and storage. picture

3. Universal IV pole - one pole w/ multiple uses. Example: for bed attachment, rolling stand mounting, & ceiling mounting. picture

4. Separate service from healing.
   - A) Grouping disposability items
   - B) Information center
   - C) High frequency items positioned up-front. Conceal from the patient what they don't have to see. picture

5. Overall Consolidation where possible - grouping or combining similar items together to fit more into a smaller space. picture
Conclusion

- **Method:** Spreadsheet
- **Procedure:** Observation, Inquiry, Synthesis
- **Results:** 5 Design Paths
Remote, Nurse Call
Current Sofa
Bay Window
IV Poles
Consolidation
Patient Room of the Future

Patient Zone

Jenna Schmidt, Jason Dooley
the Problem

• The patient room is a multi-purpose machine that needs to be adaptable to and designed with the patient in mind. The problem with this fact is that currently this customization is achieved by simply bringing in numerous items and pieces of equipment into and out of the room to help monitor and care for the patient. Many of these items have their own wheeling stands or carts associated with them. This aggregation creates clutter in the room, impedes the traffic flow within the room, and can be bothersome or annoying to the patient and family.

• The nurse has to deal with the aggregated elements in the room as well as sporadically placed items that she has to use to serve the patient. She also has no defined area within the room for these supplies, equipment, or storage. Many times she has to enter into the Patient and Family Zones to perform her tasks.

• In terms of the family it is currently hard to accommodate overnight visitors within the Patient Room. They have no real designated area within the room and a common piece of furniture, the sofa, takes up a large percentage of their open space. There is also little storage for the patient or the family. This area is not efficient.
our Method

• Develop understanding of Nurse, Patient, & Family Zone requirements

• Nurse interviews about the "servicing" of the patient to find out what items could be centralized to make this process more efficient giving more time to directly address/interact with the patient

• Re-investigation of mountable or connectable equipment

• Develop design solutions to integrate all these features

• Produce 3D and detailed drawings of final design

• Build a full scale volumetric mock-up in a room
We visited Emory University Hospital in Decatur where we examined and documented multiple patient rooms.

We interviewed several groups of nurses about their criticisms and suggestions of what they felt needed to be included in a future patient room.
Interviews

• **Nurse Interviews – Patient Room Needs:**

• **For Caregivers**
  • Adequate room for circulation
  • Adequate area around bed
  • Easy access to the patient
  • Caregiver access to lighting controls (multiple locations)
  • A work surface (not by a sink)
Interviews

- Easy access to electrical outlets
- IV hanging locations
- Limited open shelving for storage of supplies
Interviews

- Covering for Med Gas/ Air/ Suction connections
- Computer connections
- Clocks
Interviews

- Nurse storage for objects they typically carry in their pockets (alcohol swabs, Band-Aids, drug compatibility charts, Saline flushes, calculator)
Interviews

- **For Patients & Family**
- Shower, no bathtub
- Light for reading
- Adjustable lighting levels
- Computer connections
- Storage
Interviews

- Less institutional looking
- Refrigerator
- Natural light
- Views of Nature
Interviews

- Privacy
- Visitor Seating
- Lockable Storage
Concepts

- Our main idea in relation to the Patient Room of the Future is consolidation. The solution here is simple one of consolidation for spatial and user efficiency: Creation of a modular/adaptable/customizable piece of furniture centered around the patient but usable and serviceable by the Nurse and Family.

- The goal of our product is to introduce a piece of furniture to the room that actually defines space, engages users, and enhances all three zones of the room at the same time. This piece will incorporate the Patient Zone & Headwall/ Family Zone/ Sleeper Storage/ Shelf / Nurse Zone/ Work Station/ Disposability Center/ and Waste Disposal.
Initial Design
Design Progression
Problems Resolved

- Nurse Work Surface
- Storage (nurse, patient, visitor)
- Easier Headwall Access
- Consolidation of Equipment
- Consolidation of Disposables
Problems Resolved

• Better Lighting
• Less Institutional
• Visitor Functions
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Final Design
Final Design
Final Design
Final Design
Final Design
Final Design
Final Design
Patient Room of the Future

Patient Zone

Jenna Schmidt, Jason Dooley
Final Design
Final Design
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Final Design
Final Design
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