Concept Statement:
This pediatric patient room creates a healing environment through the encouragement of collaborative care between hospital staff, family members, and patients, the integration of technology, and the use of positive distractions to promote stress reduction and healing through aesthetics. This space provides families with their own place of refuge while taking in the care of their recovering child. Patients will experience an exciting interactive environment through the integration of technological systems that save, store, and analyze associated with hospitalization. Similarly, this technology allows hospital staff to provide more individualized patient care while decreasing the possibility of medical errors.

Design Goals:
1. Bolster patient healing through integrating a family-friendly environment to encourage more frequent and longer family visits, while minimizing the role of the healthcare provider in the interaction between staff and patient to provide further support
2. Create a more functional and safe environment for both the patient and the staff through the integration of technology
3. Use technology to create a patient-centered environment to individualize comfort and safety
4. Design a safe and convenient patient room in order to decrease medical errors and increase efficiency to optimizing circulation and layout, nurse sight lines and constellency, and ADA compliance and technology
5. Construct a stimulating and playful environment to aid in decreasing stress and create a more comfortable and fun setting to promote healing

Research Summary:
There are five main design applications that enhance outcomes for pediatric patients: family zone, positive distractions, communication technology, medical technology, and storage (Vickers, 2015). First, the family zone provides adult guests with both private work and sleeping areas so they can complete routine tasks without feeling pressured to leave their child (1). Studies show that providing a deep sleep family zone, both visitation frequency and longevity are increased which improves healing times and patient well-being (Munderer, 2012). Second, pediatric patient rooms should be engaging and stimulating for children ranging from pre-school age to adolescence (Vickers, 1). This can be attained through the use of interactive lighting, music, projected imagery, and artwork in order to create positive distractions for patients (Poulin, 218-225). Also, sleeping, feeding, and floors are a great opportunity for the incorporation of those aesthetic design features (Vickers, 1). Third, more should integrate appropriate technologies such as digital screens, Wi-Fi, and video technology for patients to communicate with friends, classmates, and siblings during their stay (1). This also allows patients to communicate directly and efficiently with hospital staff, which reduces the risk of medical errors and provides more personalized care (Kim, 2012). Fourth, medical technology should be present yet conveyed to reduce anxiety in young patients, while still allowing access to medical staff during an emergency (3). This can be accomplished through the application of customized casework to conceal gaps and other medical equipment to create a patient care control center for campers with a hospital feel (Poulin, 218). Last, pediatric patients with longer hospital stays may bring toys, books, and other personal items to make their rooms feel more like homes (1). Therefore, rooms should accommodate areas for extra storage to provide additional comfort to patients and their families (1). In conclusion, the interior design of a pediatric healthcare facility takes many aspects into consideration to create a positive, healing environment for patients, family, and hospital staff (Poulin, 20).

Annotations:
- **Family Zone**
  - A deep sleep family zone provides a more conducive environment to encourage more frequent and longer family visits

- **Technology**
  - Media wall is located on the first wall's orientation through a patient table:
    - Media wall will be equipped with Wi-Fi, calling services, and allow patients to watch TV or movies, listen to music, access medical information, or communicate more efficiently with friends and family

- **Convenience**
  - Extra wall spaces extend into the hallway to allow for more visibility and sight lines for the nurses and staff to the patient

- **Sustainability**
  - LED lighting will increase energy use
  - Use of daylight to decrease the need for artificial light
  - Low-flow toilets and sinks
  - LED lighting materials
  - Natural Light
  - Television sets are located in the patient area and family zone to provide a connection to the outside, provide natural light and to help lower energy costs that would otherwise increase due to excess use of artificial lighting. The patient room is programmed to turn off with a natural light sensor. Natural light sensor connects with patient care systems and communications for positive distractions.
  - Environmental shapes, furniture, walls, and decor add to the street and joyful atmosphere

- **Aesthetics**
  - Aesthetics is a crucial aspect of creating a sustainable environment. Applying lighting techniques such as color and daylighting can create a stimulating environment that will create positive distractions to decrease patient anxiety. The customizable controls allow the individual patient to control their own unique atmosphere, adding visual interest and personalized comfort.

Lighting Concept:
The lighting concept for this pediatric patient room includes three main features: natural light, color, and light.

Natural Light
- Exterior windows are located in the patient area and family zone to provide a connection to the outside, provide natural light and to help lower energy costs that would otherwise increase due to excess use of artificial lighting. The patient room is equipped with a natural light sensor. Natural light sensor connects with patient care systems and communications for positive distractions.
- Environmental shapes, furniture, walls, and decor add to the street and joyful atmosphere

Color
- LED lighting will increase energy use
- Use of daylight to decrease the need for artificial light
- Low-flow toilets and sinks
- LED lighting materials

Materials:
- Lighting fixtures are made with recycled, sustainable, and are treated with anti-microbial finish
- Wallcovering: Low VOC adhesive, sustainable and treated with anti-microbial finish
- Flooring: Commercial grade vinyl composition
- Wood trim:
  - Walnut finish
- Veneer finish:
  - Maple finish

Floor Plan: Scale 1" = 1'-0"
Elevation Scale: 1/4" = 1'-0"