

PEDIATRICS DESIGN FOR THE WHOLE CHILD



BSA



**We design safe and holistic
environments improving the
lives of children.**

CHILD LIFE

Visiting a hospital can be a scary and traumatic experience for children of all ages. Creating spaces and experiences that can positively impact the effect an illness or injury can have on the development of a child are at the core of any pediatric healing environment. This vision promotes the child life practice and strives to keep the patient at the center of design and care.



1



1

Areas for play | Adequate preparation and positive distractions can improve experiences for children and families. Utilizing methods such as play, music, technology, and art can alleviate stress and improve the outcomes and overall satisfactions. Pairing these areas with views or access to nature only enhance the space and its effect.

2

Safe environment | Thoughtfully placed elements that promote interaction and play create a sense of respite and security. Integrated storage for easy access but secured access to reduce over-stimulation. A design that aligns with staff behavior, relaxed but a strong feeling of security for children and families. Create a sense of calm with aesthetically pleasing colors and child safety top of mind.

3

Welcoming place for all | Areas of play that provide a variety of distractions and sensory elements that interest a wide range of patients. Considering the scale and accessibility of not only child specific elements, but promoting inclusion for all who interact with the space.



2



3



INTENSIVE CARE

Thoughtful design and expert coordination takes center stage in both neonatal and pediatric intensive care units. Equipment placement and room layout ensure a place where providers can administer the best possible care in the most critical of environments. Intensive care patient rooms also deserve the same attention to space allocation and amenities for families who will likely experience extended stays. Spaces dedicated to patient, family, and care team with integrated design elements to promote distraction and individual control of space. Additionally, infection prevention is enhanced by minimizing opportunities for transfer by touch and specifying materials suitable for low access areas and lessening the maintenance burden.



- 1 A growing trend in pediatric hospitals is to provide ante/LDRP units within the hospital. This provides immediate neonatal care and procedures to take place as quickly as possible while also keeping mothers and babies together.
- 2 PICU rooms are a highly complex patient care environment where the design of the room must support the patient care delivery safely and efficiently.
- 3 NICU rooms that offer a variety of configuration to accommodate demographics and overnight mothers.



BEHAVIORAL HEALTH

Mental illness affects everyone—even the young. Our children need more mental health support than we are giving them. The design within pediatric behavioral health facilities must also ensure these spaces aid in developing a child’s coping skills so they can foster the competencies to manage their diagnoses.



- 1 Promoting a sense of community and creating spaces that foster therapies focused on communication and lifelong strategies for resilience and strength.
- 2 A variety of spaces and a connection to the outdoors enhance patients' healing and emotional states.
- 3 Dayrooms and common areas encourage unscheduled social interaction and promote community among patients.



CLINICAL

Ensuring a positive experience is essential. The clinical setting is often the first space patients and families will visit. Successful integration of clinic care models and design creates an environment centered around the patient.



- 1 The onstage/offstage clinic layout separates patient and visitors from the staff. A private care team work zone allows staff to work and collaborate uninterrupted.
- 2 Creating highly collaborative environments that provide opportunities to enhance knowledge transfer among clinicians. Design for high visibility throughout clinic and easy access to medication and supplies.
- 3 While the behavior of caregivers, staff and volunteers is fundamental to creating a positive experience, cohesive design supports this effort. This includes wayfinding components, adjacencies, family amenities, branding imagery, colors, finishes, art and play spaces.



SPORTS PERFORMANCE

These facilities bring together different departments—sports and health, injury and healing—in a shared footprint. When injuries occur, facilities need to have the specialized care spaces where youth athletes can get treatment tailored to their specific circumstances, not a one-size-fits-all approach.



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Hydrotherapy spaces provide an inclusive therapy for all patients, encouraging the young athlete and child to challenge their physical capabilities.

2

Direct connection between rehab/sports medicines spaces to the clinic provide a sense of familiarity and comfort for repeat patients.

3

A thoughtfully designed space for a variety of activities and equipment, this facility will promote and motivate movement of children and young adults who experience the facility.



2



3



PEDIATRIC RESEARCH

Pediatric research integrates research and clinical care. Translational research can be the foundation in which partnerships can be formed among health care professionals, researchers, patients and families. This approach further strengthens the interconnectedness and impact of a hospital's clinical and research programs, bringing science to the bedside to accelerate the pace of discovery and enhance care.



- 1 Integrating science-inspired design into the very structure of the building can inspire future research. An actual DNA sequence from four patients is incorporated into the exterior lighting design of the building.
- 2 Consider placement of labs so they are immersed with natural light. Bright and reflective surfaces create an uplifting environment while intentionally placed pops of color highlight areas for collaboration.
- 3 The researcher's workstations needed to be adjacent to the lab. The connectivity allows them to stay part of the research while completing focused work nearby.



PATIENT JOURNEY

So many factors contribute to a positive patient encounter. The intent is to provide an environment that from beginning to end, enhances the possibility for a promising engagement.



1
SITE
Pre-visit Introduction
Intuitive Wayfinding
Distinct Vehicular / Pedestrian Paths

2
ENTRY
Clear Point
Materiality
Ease of Use

3
LOBBY
Defined Intent
Spaces to Meet Family / Visit
Assistance

4
PROCEDURE
Full Flow
Innovation Centered
Confidence Building

5
PATIENT ROOM
Amenity Rich
Properly Zoned
Detail Centered

6
CHILD LIFE
Tangible
Highly Visible
Integrated Throughout

PEOPLE.
PURPOSE.
IMPROVING LIVES.

The goal for us in healthcare design is to make a difference in the lives of those who inhabit these healing spaces. Truly improving experiences and outcomes means that we must do a better job at anticipating needs. The journey of each individual that enters a hospital or clinic is intricately connected to their personal needs and how the environment is able to respond. Giving honest feedback filtered through the lenses of the mother, the

son, the lab tech, the oncologist, the grandfather, or the nurse manager is a huge part of how the BSA team of operational planners, clinicians, designers and engineers establishes a modernized baseline for an exponentially enhanced experience.

Education propels us to greater results. LifeStructures Metrics is our research arm that informs, interjects, and

evolves our thought process regarding patient flow and procedural analysis. Tools that model traffic patterns. Tools that show heat mapping for areas of congestion. Tools that provide a view into a typical day at a particular facility. These are all resources that combined with a specific culture give rise to a design algorithm that produces a signature project.

HEALTHCARE MASTER PLANNING

Facility master planning requires the ability to assess the many moving parts of a healthcare organization, view them as a single organism with a common purpose, and then chart out a course that drives both the mission of the whole and the roles of the individual parts. This plan must be solid enough to guide a capital-spending program and yet fluid enough to adapt to the shifting realities of healthcare.



Design that inspires
what's next.



We create inspired solutions that improve lives

1975 Year BSA was founded

7 Regional Studios
AUSTIN | DENVER | INDIANAPOLIS | KANSAS CITY |
RALEIGH | ST. LOUIS | TAMPA

180 Employees across multiple disciplines

#18 2021 Modern Healthcare Construction and Design
Top Architecture Firms



3.0 million square-feet
of pediatric space designed in the last 8 years



2021 Kansas City Business Journal Capstone Award
in the Special Judges' – Public Health category
(Children's Mercy Research Institute)



2018 IIDA Mid America Silver Design Award
in the Healthcare/Assisted Living category
(Children's Mercy Sports Medicine Center)



OUR STAND

In 1975 an architect and an engineer came together to establish BSA LifeStructures (BSA), a concept visionary for that time. Since then we have dedicated ourselves to bringing structures to life, creating facilities that support and enhance the practices of healing, learning and discovery through our studios in Tampa, Raleigh, Kansas City, St. Louis, Indianapolis, Austin, and Denver.

We employ an interdisciplinary and interpractice approach to design. Moving away from traditional design, decisions are not made in silos. Instead, they are evaluated across multiple disciplines and practices to produce viable solutions that shape our future.

Our collective mission for the future is to move healthcare from treatment to wellbeing; from uncertainty to resiliency; and from indifference to community investment; all supported and proven by metrics.

ARCHITECTURE

PLANNING

PROJECT
MANAGEMENT

SYSTEMS
ENGINEERING

CIVIL / SITE

INTERIOR
DESIGN



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