Interior Design in Improving Smart and Sustainable Healthcare
A Case study on Pediatrics Clinics

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Abstract:
Since the advent of the internet more than two decades ago, the pace of technological advancement has been exponential in a countless number of fields. Despite significant early gains, Egyptian hospitals continue to be late adopters both of healthcare technology and modern industrial engineering concepts. Medical technology for diagnostics and treatment have improved in leaps and bounds, but almost all health services are still stuck on paper. People expect the health system to keep up and We’re seeing some exciting emerging technologies that will make a big difference over coming years. Intelligent buildings use integrated and intelligent systems to provide a rewarding experience for the building owners, property managers, occupants and visitors to achieve their goals. These goals include lifespan, high energy efficiency, environmental-friendly built environment with substantial safety, security, well-being and convenience, a lower life-cycle cost, and long-term flexibility and marketability that lead to achieve a high-level of buildings that have the highest social, environmental and economic values Green hospital concepts will play an important part in the curative process in time to come. Instead of being referred to as a place that houses healthcare amenities, hospitals of tomorrow will now focus on wellness and be transformed into welcoming spaces to get well. Over the last few decades, a deeper understanding of the role that early education plays in improving a child’s future academic performance, health and quality of life has emerged. Within the spectrum of elements that create excellent child care, the quality of this environment has a profound influence – especially given that many children spend close to half their waking hours in a child care setting. Learning from direct experience, children are attuned to and affected by their surroundings. The child care is a place where children experience the world and through which caregivers and the community gain support. Children are usually discouraged from moving around in hospital environments lest they disturb the health-care workers or patients; there should be spaces set apart for them where they can move as freely as they need or wish to, as they need to engage in imaginative play regardless of the condition of their health. Children need to feel they can create and make changes by interacting with their environment and moving objects and parts; as a result, flexible play areas should be designed to stimulate their imaginations and give them the pleasure and therapeutic benefit of creative activity. While gardens had been used in the service of health care for centuries, modern medicine, it is important to note that the level of architectural achievement and the illumination of these forms and spaces was a result of a team and goal oriented collaboration between the owner group, design team and construction team. There is a growing acceptance that the healthcare environment can have a significant impact on a patient’s perception of their medical care and, in some cases, on their actual recovery. Here we explore the psychology of color and how well-chosen hues on walls, floors and furniture can have a positive, or indeed negative, effect on a person’s health.

Keywords:
- Smart Hospital
- Intelligent Building
- Sustainable Development
- Green Hospital
- Interactive Hospital
- Children's Hospital
- Colored Light
- Healing Garden

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