



Does interior design affect pediatric clinic psychology? Exploring the impact in a comprehensive study

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Abstract

This research embarks on a nuanced exploration of the interior psychology inherent in pediatric clinics, aiming to unravel the intricate dynamics between design elements and the emotional well-being of young patients. Acknowledging the pivotal role that physical environments play in shaping children's perceptions of healthcare, this study seeks to advance our understanding of how thoughtful interior design can foster a positive and supportive atmosphere within pediatric clinics. The primary objective is to dissect the multifaceted components that contribute to a holistic healing environment for children. The research delves into the impact of color psychology, spatial configuration, and thematic elements on the emotional and cognitive experiences of pediatric patients. Furthermore, it investigates the significance of interactive features, age-appropriate design considerations, and sensory stimuli in crafting spaces that resonate with the unique developmental needs of children. The outcomes of this research are envisioned to provide architects, interior designers, and healthcare professionals with a comprehensive understanding of the nuanced interplay between design and psychology in pediatric clinics. Ultimately, the research seeks to contribute to the evolving dialogue surrounding the transformative potential of interior design in pediatric healthcare settings.

Keywords: Color psychology, spatial layout, age-appropriate thematic elements, interactive features and sensory considerations

Introduction

Designing the interior of a pediatric clinic requires a thoughtful integration of principles from interior psychology to create an environment that prioritizes the emotional well-being of its young patients. In this specialized field, the emphasis is not solely on aesthetics but also on understanding how the physical surroundings influence the psychological state of individuals. For a pediatric clinic, this means considering factors such as color psychology, with a preference for soft and warm hues known to evoke a sense of comfort. Safety and comfort are paramount, guiding the selection of child-friendly furnishings and the incorporation of soft elements to ensure a secure and inviting atmosphere. Natural elements, such as maximizing natural light and introducing indoor plants, contribute to a soothing ambiance. Play areas, distraction techniques, and family-focused spaces further enhance the clinic's interior, fostering a positive association and making the medical environment more approachable for both children and their families. Collaboration with child psychologists and ongoing feedback mechanisms ensure that the interior design

remains attuned to the evolving needs of its young clients.

Materials and Methods

The method that will be used in this research is applied and qualitative research method

Applied research

Research on the interior psychology of a pediatric clinic falls under applied research due to its practical and real-world applications. Applied research focuses on utilizing existing knowledge to solve specific problems or address practical issues. Studying the interior psychology of a pediatric clinic involves investigating how the design, layout, colors, lighting, and overall environment of the clinic affect the psychological well-being, emotions, and behaviours of children, parents, and even medical staff. The aim is to apply this knowledge to improve the clinic's environment and potentially enhance the experiences and outcomes for the patients.

- **Problem-solving orientation:** The research aims to address specific issues related to the psychological

impact of the clinic environment on the patients and staff.

- **Practical application:** The findings are intended to be applied in a real-world setting, modifying or optimizing the interior design of the clinic to create a more comforting, supportive, and child-friendly environment.
- **Direct relevance:** The research directly impacts the design and functioning of the pediatric clinic, potentially leading to changes that could positively influence the well-being and experiences of the children, their families, and the medical staff.
- **Potential for practical interventions:** The insights gained from this research can be directly implemented in designing or redesigning clinic spaces to create a more supportive, less stressful environment for its users.
- **Ultimately:** Applied research in the interior psychology of a pediatric clinic aims to use psychological principles to optimize the clinic's environment for the benefit of its users, making it a crucial aspect of enhancing healthcare experiences for children and their families.

Qualitative research

Conducting qualitative research on the interior psychology of a pediatric clinic by using methods like in-depth interviews, focus groups, observational studies, photovoice, diary studies, and participatory approaches. Exploring the subjective experiences and perceptions of children, parents, and healthcare providers to gain a nuanced understanding of the clinic environment's impact on psychological well-being. Analyze data thematically and report findings through narratives, incorporating participant voices. Ensure ethical considerations, diverse participant selection, and reflexivity throughout the research process.

Results and Discussion

Certainly, designing the interior of a pediatric clinic involves considering various factors related to the psychology of children, their parents, and healthcare providers. Below are results and discussions on the interior psychology of a pediatric clinic:

Color Psychology: Bright and Playful Colors: The use of vibrant and playful colors in the clinic's interior can create a positive and cheerful atmosphere. Colors like soft blues, greens, and warm yellows are known to have a calming effect on children. Creating different color zones for various areas can help in organizing the space and making it visually appealing. For example, waiting areas might have more lively colors, while examination rooms may have softer tones.

Themed Decor: Child-Friendly Themes: Incorporating child-friendly themes, such as nature, animals, or cartoons, can make the clinic more inviting for young patients. Themed decor can also serve as a distraction, easing anxiety associated with medical visits.

Interactive Elements: Including interactive elements like wall murals, interactive screens, or tactile surfaces can engage children and make the environment more stimulating.

Spatial Layout: Open and Welcoming Layout: An open and welcoming layout with clear wayfinding can help reduce stress and confusion for both children and their parents. Clearly defined play areas and comfortable seating contribute to a more family-friendly environment.

Private Consultation Spaces: Ensuring the availability of private consultation spaces allows healthcare providers to communicate effectively with parents and caregivers, fostering a sense of privacy and confidentiality.

Comfortable Furnishings: Child-Sized Furniture: Providing appropriately sized furniture for children contributes to their comfort and a sense of ownership within the space. Child-sized seating and examination tables can help alleviate apprehension during medical examinations. Including soft furnishings such as cushions, rugs, and comfortable seating can create a cozy and comforting environment.

Discussion

Psychological Impact: A well-designed pediatric clinic interior can have a positive psychological impact on both children and their parents. A visually appealing and child-centric environment can help reduce anxiety and promote a more positive healthcare experience.

Distraction and Engagement: Incorporating elements that distract and engage children can be crucial in easing fears associated with medical visits. Interactive play areas and themed decor can serve as effective tools for distraction.

Collaboration with Healthcare Providers: Collaborating with healthcare providers to understand their workflow and patient needs is essential. The interior design should support efficient medical practices while maintaining a child-friendly ambiance.

Inclusive Design: Considering the needs of children with various abilities is vital for creating an inclusive environment. Designing spaces that accommodate different age groups and addressing sensory considerations contribute to an inclusive pediatric clinic.

Parental Comfort: Recognizing the role of parents and caregivers in a child's healthcare journey, providing comfortable waiting areas and private consultation spaces can enhance the overall experience for families.

Survey

This is the survey conducted with users of the pediatric clinic.

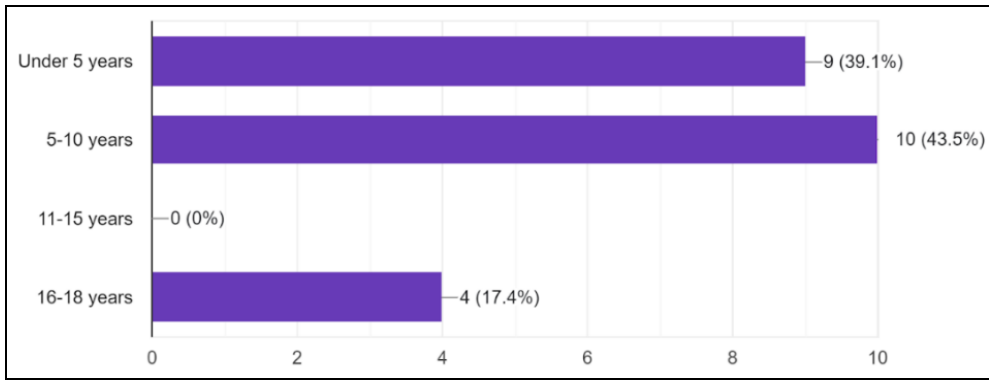


Fig 1: Child age group

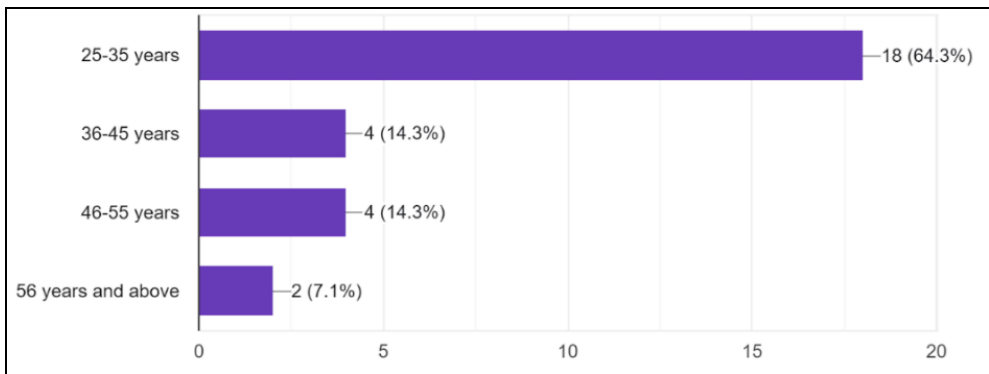


Fig 2: Parent/Guardian or Caregiver age group

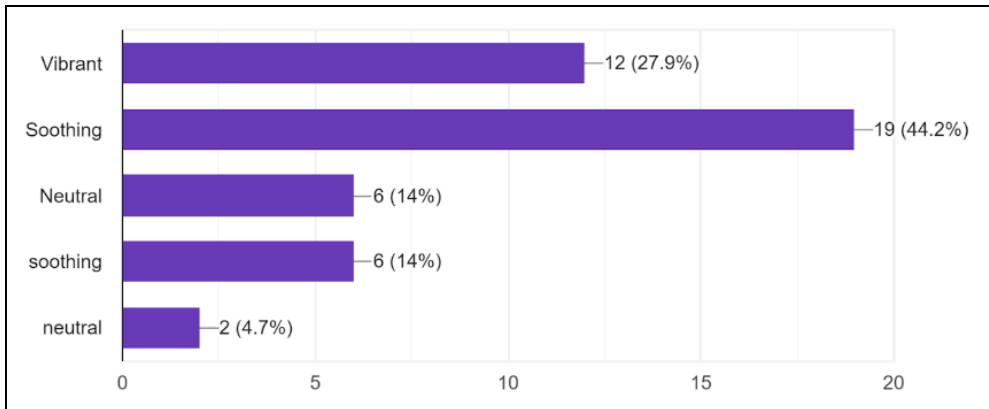


Fig 3: How would you describe the color scheme of the clinic

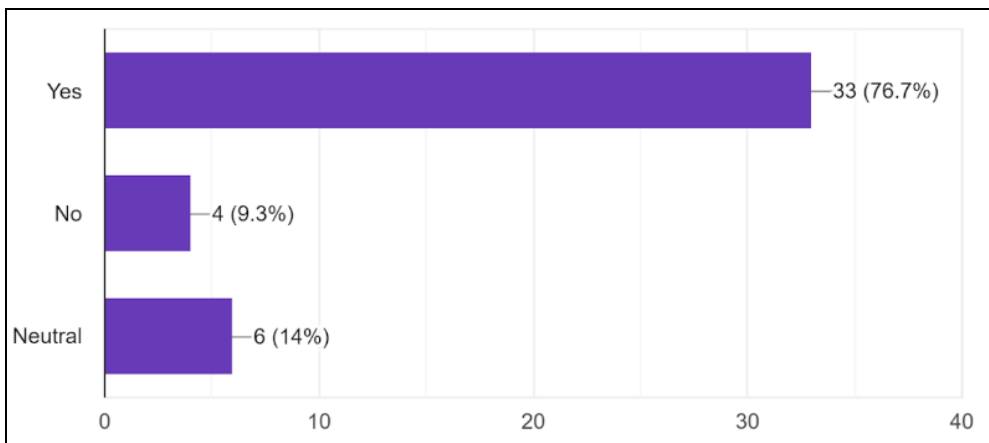


Fig 4: Do you think the color scheme of the clinic is suitable for a pediatric setting

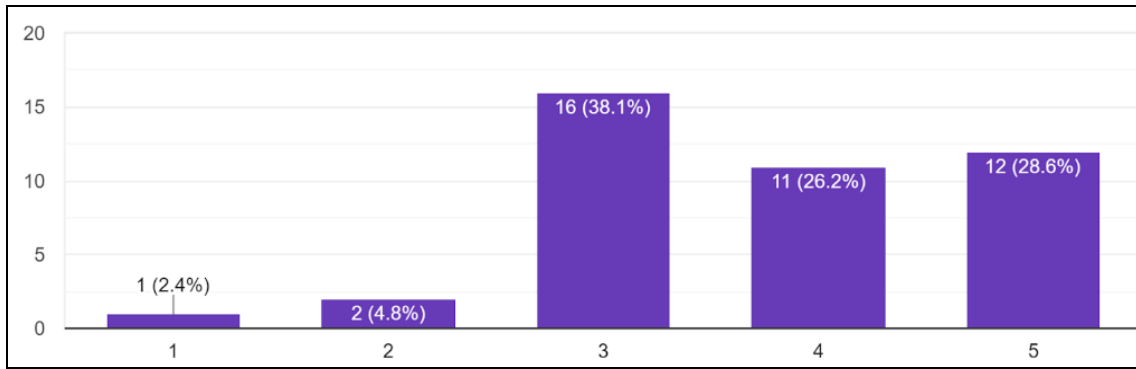


Fig 5: How visually appealing do you find the clinic's interior design

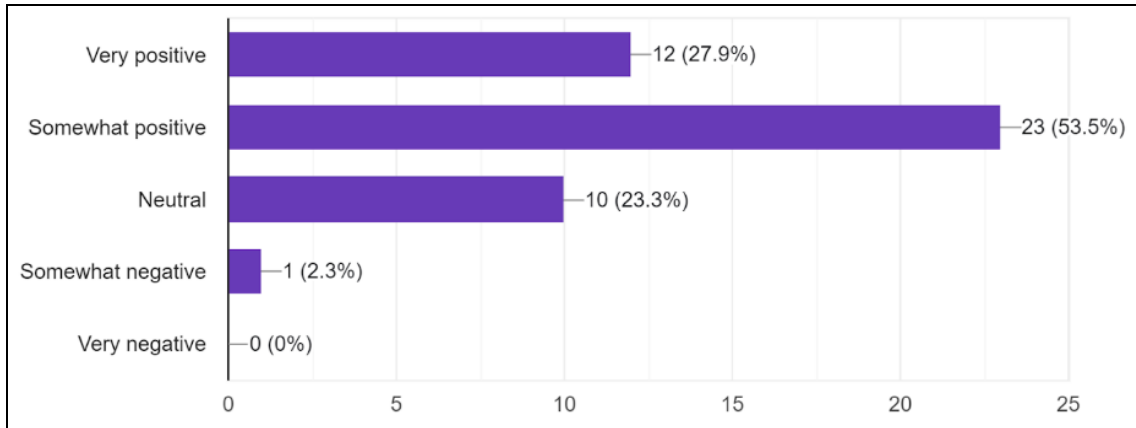


Fig 6: What is your overall impression of the current interior design of pediatric clinic?

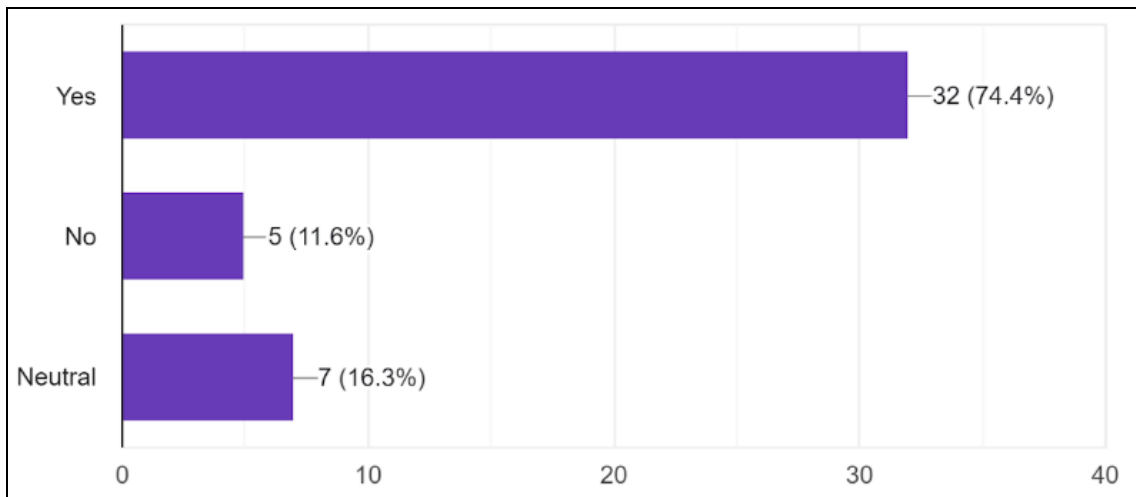


Fig 7: Are there integrative elements in the clinic that engage your child's attention?

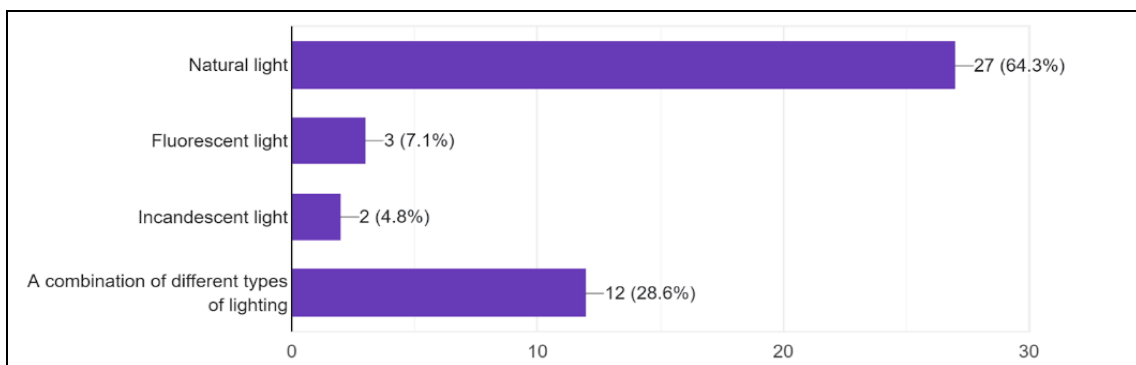


Fig 8: What type of lighting do you think would be most appropriate for a pediatric clinic?

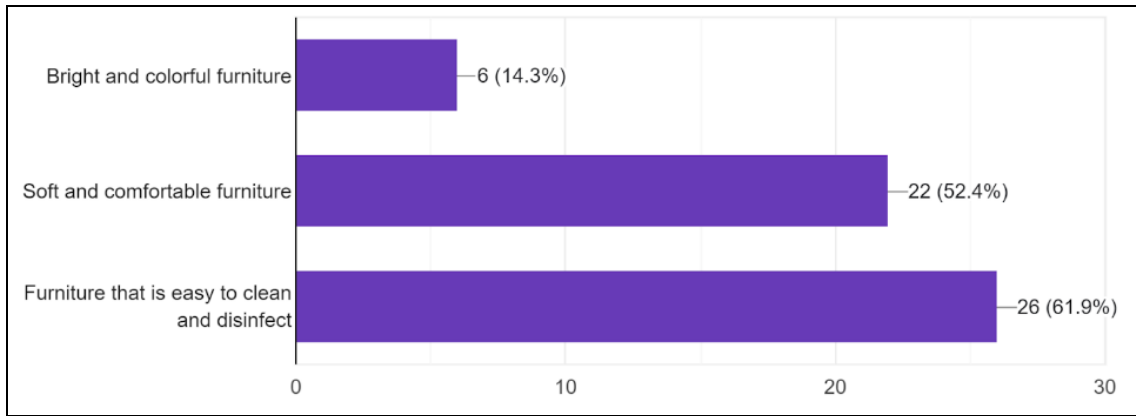


Fig 9: What type of furniture do you think would be most appropriate for a pediatric clinic?

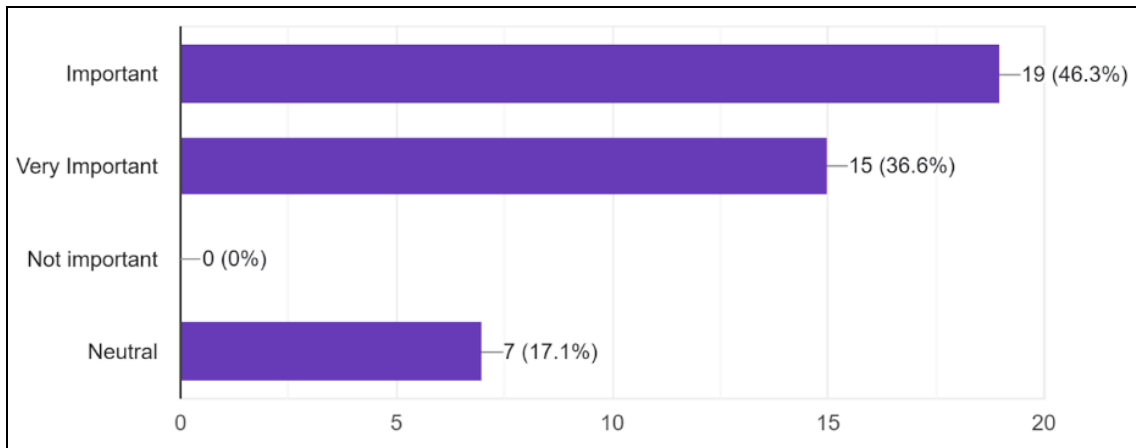


Fig 10: How important is it to have sensory elements in a pediatric clinic?

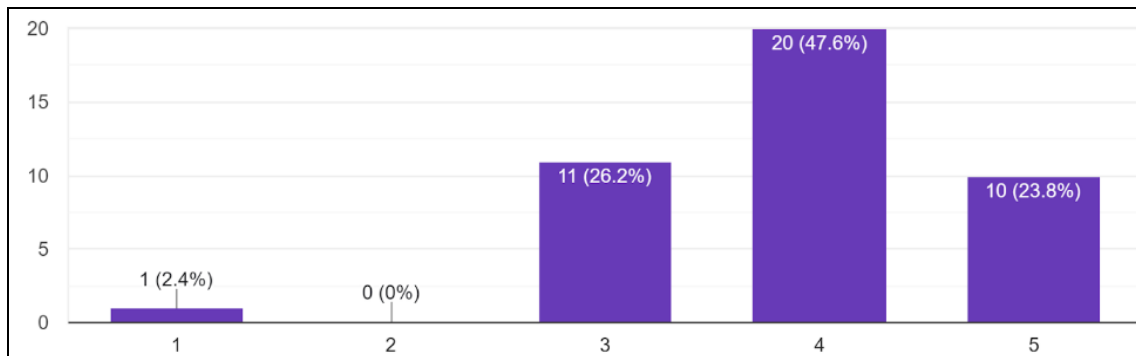


Fig 11: How would you rate the overall comfort level of the clinic for your child?

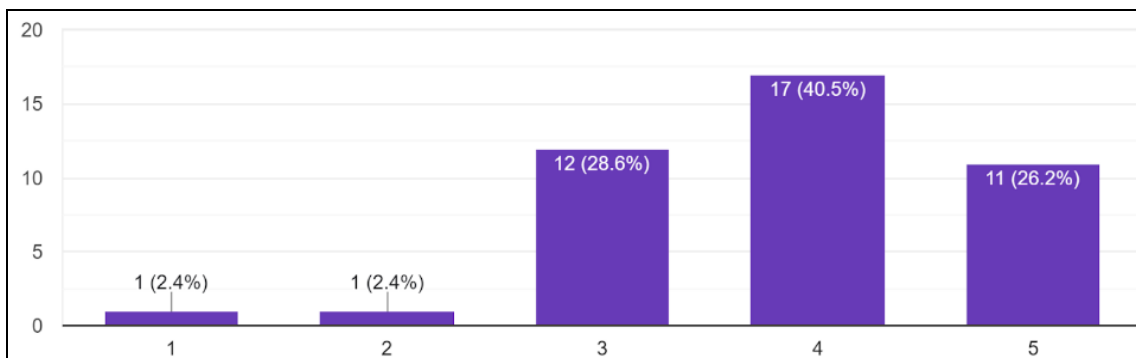


Fig 12: In your opinion, does the clinic's interior design contribute to reducing stress and anxiety for your child?

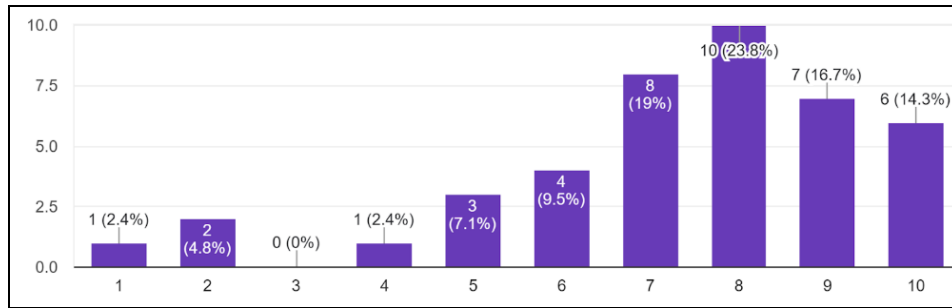


Fig 13: On a scale of 1 to 10, how satisfied are you with the interior design of the pediatric clinic?

Interpretation of the Data

Question 1: Interpretation: Majority of the children are of the age between 5-10 years.

Question 2: Interpretation: Most of the parent / guardian / care givers age is between 25-35 years.

Question 3: Interpretation: Soothing color scheme is recommended more in pediatric clinic.

Question 4: Interpretation: people agrees that the color scheme of the clinic is suitable for the particular space.

Question 5: Interpretation: visually appealing of the clinic is neither rated highest nor rated lowest, which can be concluded as neutral.

Question 6: Interpretation: The current interior design of the pediatric clinic where the responders are visiting having somewhat positive impression on interior design.

Question 7: Interpretation: Majority of the responders have mentioned that they have noticed about the interactive elements which is used for engaging children in the clinic.

Question 8: Interpretation: Majority people prefer natural lighting in the pediatric clinic

Question 9: Interpretation: people prefer soft and comfortable furniture as well as with the furniture which is easy to clean and disinfectant.

Question 10: Interpretation: sensory elements in the pediatric clinic is important says majority of the responders.

Question 11: Interpretation: visitors not completely comfortable in the clinic but not even uncomfortable but some what they are comfortable in the clinic.

Question 12: Interpretation: Most of the responders agrees that interior design contributes to reduce anxiety and stress level of the patient.

Question 13: Interpretation: 80% of the people are satisfied with the interior design of the particular clinic they visit.

Conclusion

In conclusion, the interior psychology of a pediatric clinic plays a pivotal role in shaping the overall healthcare

experience for children and their families. By incorporating elements such as vibrant colors, child-friendly themes, and thoughtful spatial design, a well-designed pediatric clinic can have a positive impact on the psychological well-being of its young patients. The use of interactive and engaging features helps to distract children during medical visits, alleviating anxiety and promoting a more comfortable atmosphere. Moreover, the collaboration with healthcare providers is crucial in ensuring that the interior design supports efficient medical practices while maintaining a child-centric focus. The emphasis on inclusive design, considering the diverse needs of children, contributes to creating an environment that is accessible and welcoming to all. Ultimately, the interior psychology of a pediatric clinic extends beyond aesthetics; it serves as a fundamental component in fostering a positive, nurturing, and stress-free healthcare environment for the youngest members of our communities. Through thoughtful design, pediatric clinics can contribute to enhancing the overall well-being of children and creating a positive foundation for their lifelong relationship with healthcare.

References

1. Valdez S, et al. Effects of Hospital Care Environment on Pediatric Patients: A Systematic Review"(Journal of Pediatric Nursing; c2016.
2. Ojo E, Tella RD. Impact of Waiting Time on Customer Satisfaction: A Case Study of Outpatient Services in a Public Hospital International Journal of Health Policy and Management; c2014.
3. Friend EL, Rivas RW. The Impact of the Physical Environment on Patient Experiences of Pediatric Cancer Treatment Centers HERD: Health Environments Research & Design Journal; c2017.
4. McMahon KL, et al. Nature-Based Solutions for Improving Urban Health and Wellbeing: Perspectives of Urban Planning and Design Professionals International Journal of Environmental Research and Public Health; c2016.
5. Varni D, et al. Designing for Children in Pediatric Healthcare Settings: A Review of the Post-Occupancy Evaluations HERD: Health Environments Research & Design Journal; c2017.

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