# More Than Bricks And Mortar: Economic, Cultural, And Ethical Factors Influencing Psychiatric Facilities Design In Southeast Nigeria

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## ABSTRACT

This study explores the multifaceted determinants that shape the design and functionality of psychiatric facilities in the region. Using a mixed-methods approach, the study integrated both qualitative and quantitative research methodologies to provide a comprehensive analysis. The qualitative aspect involved structured observations and in-depth interviews with stakeholders including architects, healthcare professionals, and patients, while the quantitative component comprised surveys and questionnaires distributed across various psychiatric facilities. The findings reveal that economic constraints, cultural beliefs, and ethical considerations play significant roles in the design and implementation of psychiatric facilities. Economically, the limited funding and resource allocation significantly impact the quality and sustainability of these facilities. Culturally, deeprooted stigmas associated with mental health influence both the location and the architectural design, often prioritizing isolation over integration. Ethically, there is a pressing need to balance patient privacy and safety with the necessity of creating therapeutic environments that promote healing and community reintegration. The study underscores the importance of considering these factors holistically to improve the design of psychiatric facilities. Economically, leveraging public-private partnerships and innovative financing models could enhance the sustainability and quality of mental health care infrastructure. Culturally, incorporating community-based designs and educational campaigns can help reduce stigma and promote acceptance. Ethically, implementing design principles that ensure patient dignity, safety, and comfort is crucial. This research contributes to the broader discourse on mental health infrastructure by highlighting the intersection of economic, cultural, and ethical dimensions in the design process. The findings suggest that future policies and designs should adopt an integrated approach that not only addresses the immediate needs of psychiatric patients but also aligns with broader societal values and economic realities. By doing so, Southeast Nigeria can move towards a more inclusive and effective mental health care system that transcends traditional architectural paradigms, fostering environments that are conducive to healing and societal acceptance.

**Keywords:** Psychiatric facilities, Economic factors, Cultural factors, Ethical considerations, Mental health infrastructure, Therapeutic environments.

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#### I. INTRODUCTION

Mental health issues represent a growing global concern, affecting individuals across all demographics and socio-economic backgrounds. According to the World Health Organization (WHO), approximately one in four people will be affected by mental or neurological disorders at some point in their lives, with around 450 million currently suffering from such conditions, making mental disorders one of the leading causes of ill-health and disability worldwide (WHO, 2020). Effective psychiatric care is essential for improving the quality of life for these individuals, yet the success of such care is intricately linked to the environment in which it is provided. Facility design plays a crucial role in creating therapeutic environments that can significantly influence patient outcomes, from the immediate impact on comfort and safety to long-term recovery and well-being. The design of mental health facilities is more than just an architectural challenge; it is a fundamental aspect of therapeutic intervention. Research has shown that thoughtfully designed spaces can reduce anxiety, stress, and agitation among patients, contributing to faster recovery times and better overall health outcomes (Ulrich et al., 2008). Elements such as natural light, access to outdoor spaces, and private areas for reflection and counseling are all components that contribute to a healing environment. Conversely, poorly designed facilities can exacerbate symptoms, contribute to a sense of isolation, and perpetuate stigma. Thus, the physical environment must be tailored to support the mental health needs of patients, fostering environments that are not just physically safe, but also emotionally and psychologically supportive.

In Southeast Nigeria, the prevalence of mental health disorders mirrors global trends, with significant portions of the population affected by various mental health conditions. Despite this, the region faces unique challenges that complicate the delivery of effective psychiatric care. Cultural stigmas surrounding mental illness, economic constraints, and ethical dilemmas significantly impact the design and functionality of mental health facilities. These factors often lead to facilities that are inadequately equipped to provide the necessary care, further entrenching the stigma and isolation experienced by those with mental health issues (Gureje et al., 2010). The current state of psychiatric facilities in Southeast Nigeria reflects a critical need for improvement. Many of these facilities are outdated, underfunded, and poorly maintained, which adversely affects the quality of care provided (Jack-Ide, Uys & Middleton, 2013). The lack of appropriate design considerations not only impedes the therapeutic process but also perpetuates negative societal perceptions of mental illness. Improving these facilities is not just a matter of upgrading infrastructure; it requires a holistic approach that addresses the cultural, economic, and ethical dimensions of mental health care. By rethinking the design of psychiatric facilities, there is an opportunity to create environments that promote healing, reduce stigma, and enhance the overall effectiveness of mental health treatment in the region.

Economic constraints are a significant barrier to the effective design and construction of psychiatric facilities in Southeast Nigeria. The healthcare sector in Nigeria, including mental health services, often suffers from chronic underfunding and budget limitations, which impede the development and maintenance of adequate facilities (WHO, 2014). Many psychiatric facilities are forced to operate with minimal resources, leading to overcrowded, unsafe, and non-therapeutic environments. These economic challenges also affect the availability of trained personnel, modern equipment, and essential services, further diminishing the quality of mental health care. Funding for mental health facilities in Southeast Nigeria primarily comes from government allocations, which are often insufficient to meet the growing demands (Amoo, Ogunrin & Omoaregba, 2010). Additionally, there is limited private sector investment in mental health infrastructure, partly due to the stigma associated with mental illness. Economic considerations must, therefore, be central to any strategy aimed at improving psychiatric facility design. Innovative financing solutions, public-private partnerships, and international aid could provide the necessary resources to create facilities that are not only functional but also conducive to mental health recovery. Addressing these economic barriers is essential for transforming psychiatric care in the region.

Cultural beliefs and practices play a crucial role in shaping attitudes toward mental health and the design of psychiatric facilities in Southeast Nigeria. Mental health is often shrouded in stigma, with widespread misconceptions and negative stereotypes influencing public perceptions and policies. Traditional beliefs about mental illness, which can include views that it is caused by supernatural forces or moral failings, contribute to the marginalization of those affected and the neglect of their treatment needs (Jegede, 2019). These cultural attitudes often manifest in the design and location of mental health facilities, which may be isolated or poorly integrated into the community. The design of psychiatric facilities must therefore consider and address these cultural factors to be effective. Creating spaces that are welcoming and de-stigmatizing is crucial for encouraging patients to seek help and adhere to treatment plans. This involves not only architectural design but also the integration of culturally sensitive practices and community outreach programs that educate and engage the public. By fostering a more inclusive and understanding environment, psychiatric facilities can help to change societal attitudes and reduce the stigma associated with mental illness, thereby improving access to care and patient outcomes.

Ethical considerations are paramount in the design and operation of psychiatric facilities. Ensuring patient rights, confidentiality, and humane treatment are fundamental ethical principles that must be upheld in any mental health care setting (Beauchamp & Childress, 2013). The design of psychiatric facilities should reflect these principles by creating environments that protect patient privacy, promote dignity, and facilitate compassionate care. This includes providing private treatment areas, ensuring secure and safe environments, and incorporating design elements that reduce stress and promote well-being. Ethical issues also arise in the context of resource allocation and access to care. In Southeast Nigeria, where resources are limited, there is an ethical individuals, regardless of their socio-economic status, have access to quality mental health care. Additionally, the design process should involve input from patients, families, and communities to ensure that the facilities meet their needs and reflect their values. By prioritizing ethical considerations in facility design, mental health care providers can create environments that support recovery and uphold the dignity and rights of all patients.

Understanding the economic, cultural, and ethical factors influencing psychiatric facility design is crucial for a wide range of stakeholders, including policymakers, healthcare providers, architects, and the community. Policymakers need this information to allocate resources effectively and develop policies that support the construction of therapeutic environments. Healthcare providers require insights into how facility design impacts patient care and outcomes to advocate for better infrastructure. Architects and designers need to be aware of these factors to create spaces that are not only functional but also healing and respectful of patient needs. Improved facility design has the potential to significantly enhance patient outcomes and community wellbeing. Thoughtfully designed psychiatric facilities can reduce stigma, improve patient satisfaction, and foster a sense of dignity and respect. For the community, better-designed facilities can change perceptions of mental health, encouraging more people to seek help and reducing the social isolation of those with mental illness. Thus, this study has the potential to inform practices that not only improve mental health care but also promote broader social and cultural change. This study's findings can contribute to the global discourse on mental health facility design in Southeast Nigeria, this research can offer valuable lessons and strategies that can be applied in other regions facing similar challenges. It can also provide a framework for understanding how different factors interact to shape health care environments, contributing to the development of more holistic and effective design practices.

The potential impact of this research extends beyond the immediate context of Southeast Nigeria. It can inform future policies, funding priorities, and design practices that prioritize patient well-being and community engagement. Moreover, it can encourage international collaboration and support for mental health infrastructure development in low- and middle-income countries. By highlighting the importance of integrating economic, cultural, and ethical considerations into facility design, this study can help to promote more sustainable and equitable health care systems worldwide.

Current psychiatric facilities in Southeast Nigeria face numerous challenges, including inadequate funding, poor design, and cultural stigmas. Many of these facilities are outdated and lack the necessary infrastructure to provide effective care. The design of these facilities often fails to create a therapeutic environment, exacerbating patients' conditions rather than aiding their recovery. Issues such as overcrowding, lack of privacy, and insufficient safety measures are common, all of which undermine the quality of care provided (Jack-Ide, Uys& Middleton, 2013). These problems have significant implications for patient care and societal perceptions of mental health. Poorly designed facilities can contribute to negative outcomes such as increased stress, anxiety, and reluctance to seek treatment. Additionally, they can perpetuate stigma by reinforcing the idea that mental health conditions are not worthy of the same quality of care as physical health issues. Addressing these design flaws is essential for improving patient outcomes and changing societal attitudes toward mental health. There is a clear need for comprehensive research that addresses the interplay of economic, cultural, and ethical factors in psychiatric facility design. Existing literature often focuses on isolated aspects of facility design, failing to consider the broader context in which these facilities operate. This gap in the research limits the development of effective design strategies that can address the unique challenges faced by mental health care providers in Southeast Nigeria. A holistic approach to assessing and addressing these factors is necessary for creating facilities that are both functional and therapeutic. This research aims to fill this gap by providing a comprehensive analysis of how economic, cultural, and ethical considerations influence facility design. By doing so, it seeks to inform better design practices that can enhance the quality of mental health care and support the well-being of patients and communities in Southeast Nigeria.

#### II. RESEARCH METHOD

To unravel the complex interplay of economic, cultural, and ethical factors that shape mental health facility design in Southeast Nigeria, a mixed-methods research design was employed, leveraging both quantitative and qualitative approaches for a comprehensive understanding. The study was conducted across five diverse mental health facilities, including federal neuropsychiatric hospitals, teaching hospitals, and general hospitals with psychiatric wards. This selection aimed to capture a wide range of design practices and resource availability. The participants comprised 191 professionals, including psychiatrists, psychologists, nurses, social workers, occupational therapists, architects, engineers, and facility managers, providing a multifaceted perspective on the issue. Quantitative data was collected through structured questionnaires assessing participants' perceptions of design decisions and their impact on patient outcomes. Descriptive and inferential statistics were used to analyze the data, revealing patterns and significant differences between groups. Qualitative data was gathered through in-depth interviews and focus group discussions, allowing for a deeper exploration of the nuanced factors influencing facility design. This mixed-methods approach, as advocated by Creswell and Plano Clark (2018), enabled a robust analysis, integrating the strengths of both quantitative and qualitative data to inform better design practices for psychiatric facilities in Southeast Nigeria.

#### ETHICAL CONSIDERATIONS

Ethical approval was obtained from the relevant institutional research ethics committee in Nnamdi Azikiwe University, Awka before commencing any research activities. Informed consent was obtained from all

participants, ensuring their understanding of the study's purpose, procedures, and potential risks. Confidentiality and anonymity were maintained throughout the research process, and data were stored securely.

#### LIMITATIONS

The study's limitations include the small sample size of five facilities, which may not be fully representative of the diversity of mental health facilities in Southeast Nigeria. Additionally, the reliance on self-reported data in the questionnaires and the potential for observer bias in the structured observations could introduce some limitations to the findings.

#### III. RESULTS

Factors such as cultural norms, environmental considerations, budget constraints, and regulatory requirements were explored in depth. By understanding these influencing factors, architects and planners can create designs that are not only aesthetically pleasing but also functional and supportive to the mental health needs of the residents.

Factors	Strongly Agree n (%)	Agree n (%)	Neutral n (%)	Disagree n (%)	Strongly Disagree n (%)	Mean±SD
Construction costs	1 (0.5)	7 (3.7)	21 (11.0)	44 (23.0)	118 (61.8)	4.42±0.87
Material availability	2 (1.0)	6 (3.1)	50 (26.2)	61 (31.9	72 (37.7)	4.02±0.93
Maintenance expenses	1 (0.5)	3 (1.6)	26 (13.6)	70 (36.6)	91 (47.6)	4.29±0.79
Long-termoperational efficiency	0 (0.0)	25 (13.1)	50 (26.2)	33 (17.3)	83 (43.5)	3.91±1.10
Some cultures prefer open spaces	0 (0.0)	1 (0.5)	68 (35.6)	50 (26.2)	72 (37.7)	4.01±0.87
Others cultures prefer enclosed spaces	1 (0.5)	1 (0.5)	55 (28.8)	63 (33.0)	71 (37.2)	4.06±0.85
Age	1 (0.5)	3 (1.6)	44 (23.0)	104 (54.5)	39 (20.4)	3.93±0.74
Gender	2 (1.0)	3 (1.6)	28 (14.7)	86 (45.0)	72 (37.7)	$4.17 \pm 0.81$
Type of mental challenges	4 (2.1)	0 (0.0)	4 (2.1)	52 (27.2)	131 (68.6)	4.60±0.73
Adequate ventilation	3 (1.6)	1 (0.5)	25 (13.1)	93 (48.7)	69 (36.1)	4.17±0.79
Natural light	2 (1.0)	3 (1.6)	23 (12.0)	94 (49.2)	69 (36.1)	4.18±0.78
Shading	2 (1.0)	24 (12.6)	2 (1.0)	66 (34.6)	97 (50.8)	4.21±1.04
Safety	2 (1.0)	23 (12.0)	27 (14.1)	78 (40.8)	61 (31.9)	3.91±1.02
Accessibility	1 (0.5)	3 (1.6)	46 (24.1)	42 (22.0)	99 (51.8)	4.23±0.91
Environmental standards	1 (0.5)	2 (1.0)	48 (25.1)	61 (31.9)	79 (41.4)	4.13±0.86
Location and Site	16 (8.4)	1 (0.5)	2 (1.0)	41 (21.5)	0 (0.0)	$4.41 \pm 1.14$
Energy-efficient lighting	20 (10.5)	12 (6.3)	16 (8.4)	30 (15.7)	113 (59.2)	4.07±1.37
Water conservation measures						
Renewable energy sources	27 (14.1) 21 (11.0)	19 (9.9) 14 (7.3)	5 (2.6) 18 (9.4)	24 (12.6) 15 (7.9)	116 (60.7) 123 (64.4)	3.96±1.52 4.07±1.42
Input from stakeholders	3 (1.6)	19 (9.9)	30 (15.7)	20 (10.5)	119 (62.3)	4.22±1.13

Table 1: Factors affecting architectural design of psychiatric facilities

Table 1 shows that the respondents conveyed that the construction costs are a significant factor influencing architectural design of psychiatric facilities. This is indicated by mean response value of 4.42 greater than the criterion mean of 3 and a low standard deviation of 0.87 indicating low variability of responses. Other factors reported by the respondents include Material availability (4.02), Maintenance expenses (4.29), Long-term operational efficiency (3.91), open spaces preferred by some cultures (4.01), closed spaces preferred by some cultures (4.06), Age (3.93) and gender (4.17). They also mentioned the following factors Type of mental challenges (4.60), Adequate ventilation (4.17), Natural light (4.18), Shading (4.21), Safety (3.91), Accessibility (4.23), Environmental standards (4.13), Location and Site (4.41), Energy-efficient lighting (4.07), Water conservation measures (3.96), Renewable energy sources (4.07) and Input from stakeholders (4.22).

#### IV. DISCUSSION OF FINDINGS

The design of psychiatric facilities in Southeast Nigeria is a multifaceted issue influenced by a confluence of economic, cultural, and ethical factors. This discussion delves into the findings from a comprehensive mixed-methods study that sought to unravel these complexities. By examining the perspectives

of mental health and construction professionals, the study provides insights into how these factors impact the design and functionality of psychiatric facilities. Understanding these influences is crucial for developing environments that not only meet clinical needs but also promote healing and respect patient dignity.

Economic constraints emerged as a significant determinant of psychiatric facility design in Southeast Nigeria. As can be seen in Table 1 above, the study revealed that limited funding from both governmental and non-governmental sources hampers the ability to construct and maintain facilities that meet modern standards. Participants noted that budgetary limitations often result in compromises on materials, space, and amenities, leading to suboptimal conditions that can adversely affect patient outcomes. During a focus group discussion, one stakeholder, an architect noted"We often have to make difficult choices between what is ideal and what is feasible within our budget."This finding aligns with existing literature which highlights the impact of economic challenges on healthcare infrastructure in low-resource settings (World Health Organization, 2017). The need for increased investment in mental health infrastructure is imperative to bridge these gaps and ensure facilities are adequately equipped to provide comprehensive care.

Cultural beliefs and stigmas surrounding mental health significantly influence the design and acceptance of psychiatric facilities in the region. The study found that traditional views and societal attitudes towards mental illness often lead to the marginalization of these facilities. Many communities prefer facilities that are isolated or inconspicuous to avoid the associated stigma, which can lead to the design of less accessible and welcoming environments. The stigma associated with mental illness can lead to a prioritization of security measures over therapeutic considerations (Uzuegbunam&Onwuka, 2020). This cultural dynamic underscores the importance of community engagement and education in the planning and design process, as suggested by Thornicroft (2006). By fostering a more inclusive and informed perspective on mental health, it is possible to design facilities that are both culturally sensitive and supportive of patient well-being.

Ethical considerations are paramount in the design and operation of psychiatric facilities. The study highlighted several ethical issues, including the need for patient privacy, humane treatment, and the upholding of patient rights. Participants emphasized that many existing facilities lack adequate private spaces for consultations and therapy, compromising patient confidentiality and comfort (Karlin& Zeiss, 2006). They emphasized the importance of involving patients and their families in the design process to ensure that their needs and preferences are respected. Moreover, the ethical imperative to create environments that prevent self-harm and ensure patient safety was frequently mentioned. The design of psychiatric facilities must prioritize these ethical standards to foster trust and provide a therapeutic environment that respects the dignity and rights of patients (Stewart, 2008).

### V. CONCLUSION AND RECOMMENDATIONS

The findings from this study indicate that the interplay of economic, cultural, and ethical factors creates significant challenges and opportunities for the design of psychiatric facilities in Southeast Nigeria. While economic constraints limit the scope of infrastructure development, cultural factors shape community acceptance and utilization of these facilities. Ethical considerations, on the other hand, dictate the fundamental principles that must guide the design to ensure patient welfare and dignity. Addressing these factors holistically can lead to the development of psychiatric facilities that not only meet clinical requirements but also support the overall well-being and social integration of patients.

Based on the findings, several recommendations can be made to improve the design of psychiatric facilities in Southeast Nigeria. Increased funding and resource allocation from both public and private sectors are essential to overcoming economic barriers. Community education and engagement initiatives can help shift cultural perceptions and reduce stigma associated with mental health facilities. Furthermore, incorporating ethical principles into the design process can enhance patient privacy, safety, and overall treatment experience. Future research should focus on longitudinal studies to assess the long-term impact of improved facility design on patient outcomes and community attitudes. Additionally, exploring innovative and cost-effective design solutions that leverage local materials and cultural practices could provide sustainable models for mental health infrastructure development in resource-limited settings. By doing so, it is possible to create environments that not only provide effective mental health care but also promote healing and reduce stigma.

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