

CANCER HOSPITAL, LAGOS STATE, NIGERIA.
(DESIGNING FOR FUNCTIONALITY OF SPACE)

By

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BEING A DESIGN THESIS SUBMITTED TO THE DEPARTMENT OF
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ACCEPTANCE

This is to attest that this dissertation is accepted in partial fulfilment of the requirements for the award of the degree of Masters of Science (M.Sc.) Degree in the Department of Architecture, College of Science and Technology, Covenant University, Canaanland, Ota.

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DECLARATION

I, Adereti Oluwatimilehin Adebayo, of the Department of Architecture, Covenant University, Ota, Ogun State, hereby declares that the information contained in the thesis work is the result of an honest academic research undertaken by me and that no part of it had been submitted to any university for the award of any degree or diploma within and outside Nigeria.

I, therefore state that all information and data are duly acknowledged by proper referencing.

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CERTIFICATION

It is hereby certified; that this dissertation written by **ADERETI OLUWATIMILEHIN ADEBAYO** and was supervised by me and submitted to the School of Postgraduate Studies and Department of Architecture, College of Science and Technology, Covenant University, Ota, Ogun State, Nigeria.

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DEDICATION

This project is dedicated to God, my father through Jesus Christ who granted me the grace needed to complete for this project.

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ABSTRACT

Cancer has become a major source of morbidity and mortality globally. It is on record that cancer kills more people globally than malaria, HIV and Tuberculosis (TB) combined, and disproportionately affects low to middle income nations like Nigeria. With these records, cancer registration is bad which leads to many deaths due to the fact that many patients are seeking for choice treatments, traditional healers or prayer houses. Many cases of cancer if brought to early medical attention in their development are highly curable. So, basically, testing and early detection can largely reduce fatalities. Due to the fact that many of the teaching hospitals in Nigeria are becoming inadequate due to the lack of efficiency of our healthcare delivery system, especially in the treatment of cancer. It is essential to address this issue in a study of this nature.

The aim of this study is to investigate and document the design principles and strategies for achieving functional spaces with a view to developing an architectural design proposal of a cancer treatment center that is functional and promotes efficient healthcare service delivery to cancer patients in Lagos State, Nigeria. This was done by identifying the specific objectives that includes; examining the historical trend in the design of specialist hospitals through the review of literature, investigating the various strategies engaged in achieving a functional architectural design, carrying out case studies of the existing cancer hospitals/care units with a view to identifying the different design principles and parameters for a cancer treatment center. Consultation was carried out using a range of methods- case studies, personal visitation/observations, interviews of staffs and constituted authorities, relevant literature, journals and relevant websites.

Due to the fact that hospitals are complex structures, the spaces should help minimize stress, increase recovery rate and improve both the safety of the patient and staff; and this is dependent on its function. It was discovered that the various attributes of a functional hospital are flexibility and expandability,

efficiency and cost effectiveness, a therapeutic environment, cleanliness and sanitation, security and safety and others just to mention a few. It has also been discovered that a main consideration in a cancer hospital is the size of patient examination and treatment zones; which has been addressed with the provision of dimensions between the necessary treatment and examination spaces for a functional Cancer Hospital. Findings from Case Studies revealed that functionality is an important design parameter in a Cancer Hospital but differs in other aspects of design.

All these gathered information has resulted in addressing the lack of efficiency of our healthcare delivery system towards the treatment of cancer in addition to proposing a functional design of a specialist cancer hospital in treating cancer patients. This is the essence of this design thesis.

Keywords: Cancer, Cancer Center/Hospital Design, Functionality of Space