

CHAPTER ONE

1.1 INTRODUCTION

Dental education has arrived at a crossroads. During the last 150 years, it has evolved from a prelude to apprenticeship into a comprehensive program of professional education.

Advances in science, technology, and public health programs have greatly reduced tooth decay and tooth loss. Dentists are respected professionals, and dental schools are part of many of the nation's leading public and private universities.

This progress notwithstanding, the position of dental education within the university is being questioned as is its relationship to medicine and the larger health care system. Six dental schools—all private—have closed in the last decade, and others among the 54 remaining schools are in jeopardy. The dental profession is at odds with itself on a number

of issues including workforce policies, licensure, and health care restructuring. Tensions between practitioners and educators can undercut the profession's position within the university.

The future of dental education will be shaped, in part, by scientific, technological, political, and economic factors that are largely beyond the profession's control. Nonetheless,

dental educators—individually and collectively—have important choices to make. They may attempt to preserve the status quo—in effect, a path toward stagnation and eventual decline. Alternatively, they can choose a more difficult path of reassessing and renewing their mission of education, research, and patient care so that they contribute more—and more visibly—to the university and the community. Taking this latter path will require more vigor in implementing long-standing recommendations for educational reform as well as attention to new issues and objectives. For dental educators to pursue change successfully, they will need the active cooperation of the larger dental community as well as support from university officials and state and national policymakers.

This Institute of Medicine (IOM) study was prompted by concerns that the challenges confronting dental education, although generally recognized, were not understood or appreciated

adequately and that effective responses had yet to be identified or presented in a persuasive manner. The purpose of the study was "to assess dental education in the United States and make recommendations regarding its future." It was overseen by an 18-

member committee that was appointed after extensive consultation with dental and related organizations. The group included members with expertise and experience in dental practice and education, oral health and health services research, other areas of health professions and Higher education, health care delivery and financing, and public policy. The committee as a whole met six times between February 1993 and May 1994. As described in the Preface and summarized, it undertook a wider range of activities to collect information and perspectives from all segments of the dental community and other relevant, interested groups. (The papers commissioned by the committee will be published in the Journal of Dental Education) This document, which was submitted for outside review in accordance with IOM and National Research Council procedures and policies, constitutes the committee's final report.

Dental care utilization can be defined as the percentage of the population who access dental services over a specified period of time¹. Measures of actual dental care utilization describe the percentage of the population who have seen a dentist at different time intervals. Dental disease is a serious public health problem with universal distribution and affecting all M age groups². However, despite this universal distribution, only a few seek dental care. Thus a wide gap is created between the actual dental needs of the population and the demand for dental care³. Although dentists agree that regular dental visits are essential for maintaining good oral health, national studies in the United States of America estimate that only 41-50% of all Americans visit the dentist each year⁴. In Nigeria, Savage and Arowojolu reported that 24 (31.58%) of the 76 subjects investigated perceived it as being normal for them to bleed from the gum⁵.

Therefore, they have no reason to seek dental care for this obvious pathological condition. The study by Savage and Arowojolu further reported that 164 (82.4%) of their subjects claimed not

o notice bleeding from their gum and believed that they do not have gum disease but dental examination revealed that none of the subjects seen had healthy periodontal status.

Amongst those that admitted to having noticed the bleeding from their gum, just about half admitted that it is a sign of gingival disease yet none of them sought for dental care⁵. This observation

in Nigeria is in line with that of Ainamo and Ainamo⁶. There are reports that dental patients only visit the dentist when in pain and never bother to return for M follow-up in most cases⁷. To the best of our knowledge, only few studies have been carried out to either confirm or dispute this claim in Nigeria.

1.2 DEFINITION OF DENTAL CLINIC

CLINIC can be defined as a healthcare facility where patients receive medical treatment, consultation and care from doctors, nurses or other healthcare professionals.

DENTAL CLINIC can be defined as a specialized healthcare facility designed to accommodate dental examination, treatment and procedures. The design of a dental clinic incorporates functional spaces such as reception and waiting area, consultation room, sterilization zones, treatment rooms, x-ray or imaging room and storage for dental equipment and supplies.

1.3 HISTORICAL BACKGROUND

Dentistry is one of the oldest medical professions, dating back to 7000 B.C. with the Indus Valley Civilization. However, it wasn't until 5000 B.C. that descriptions related to dentistry and tooth decay were available. At the time, a Sumerian text described tooth worms as causing dental decay, an idea that wasn't proven false until the 1700s!

In ancient Greece, Hippocrates and Aristotle wrote about dentistry, specifically about treating decaying teeth, but it wasn't until 1530 that the first book entirely devoted to dentistry—*The Little Medicinal Book for All Kinds of Diseases and Infirmities of the Teeth*—was published.

By the 1700s, dentistry had become a more defined profession. In 1723, Pierre Fauchard, a French surgeon credited as the Father of Modern Dentistry, published his influential book, *The Surgeon Dentist, a Treatise on Teeth*, which for the first time defined a comprehensive system for caring for and treating teeth. Additionally, Fauchard first introduced the idea of dental fillings and the use of dental prosthesis, and he identified that acids from sugar led to tooth decay.

In 1840, the first dental college (Baltimore College of Dental Surgery) opened, establishing the need for more oversight. In the United States, Alabama led the way by enacting the first dental practice act in 1841, and nearly 20 years later, the American Dental Association (ADA) was formed. The first university-affiliated dental institution, the Harvard University Dental School, was founded in 1867.

By 1873, Colgate had mass produced the first toothpaste, and mass-produced toothbrushes followed a few years later. What may come as a surprise is that the first African American to earn a dental degree dates all the way back to 1869, and the first female dental assistant was employed in New Orleans in 1885. What might be most surprising of all is that most Americans did not adopt good brushing habits until after World War II, when soldiers stationed abroad brought the concept of good oral health back to the United States.

1.4 AIM AND OBJECTIVES OF THE PROJECT

AIM OF THE PROJECT

To design a functional, efficient and culturally appropriate dental clinic in Benin city, Edo states that enhance patient care, ensures hygiene and integrates modern dental technologies while considering the local climate, infrastructure and community needs.

OBJECTIVES OF THE PROJECT

- To use heat-resistant roofing and locally sourced materials suitable for Benin City humid climate.
- To utilize passive cooling techniques, such as cross-ventilation and shading, to reduce reliance on air conditioning.
- To ensure barrier-free access for people with disabilities, including ramps and wide doorways.
- To allocate space for modern dental equipment, digital imaging and telemedicine facilities.

- To incorporate calming colors, natural lights and noise reduction features to ease patient anxiety.

1.5 PROJECT JUSTIFICATION OF THE PROJECT

This project justify, a well-planned dental clinic in Benin City which will enhance patient care, optimize operational patient efficiency and support infection control. Architectural consideration will ensure a functional, aesthetically pleasing, and sustainable healthcare facility that meets modern medical standards.

1.6 CLIENT BACKGROUND

The name of my client is GODWIN NOGHEGHASE OBASEKI.

Former Governor of Edo state.

Godwin NogheghaseObaseki is a Nigerian politician and a businessman who is the former Governor of Edo State. He was first elected governor under the platform of the All Progressive Congress in the year 2016 where he defected Mr. Osagieize-iyamu of the PDP and was sworn in as the governor on 12 November 2016 to 2024 Born : 1 July 1957[age 68 years], Benin city organization founded : Afrinvest office, Former governor of Edo state since 2016, Party : People Democracy Party , Education : Columbia University, Pace University and University of Lagos, University of Ibadan Nationality : Nigerian.

1.7 SCOPE OF THE STUDY

- Proposed Building
- Quarters
- Cafeteria
- Gate House
- Generator House
- Parking Lot
- Interlock
- Access Road

1.8 RESEACH METHOLODY

Variousavenueswereexpressedasregardsthemethodofresearchonordertoarriveatafunctionalandappealingdesignconcepts.Thefollowingresearchmethodswereemployed.

LITERATURE REVIEW:

Referencetotolerateforideasofvariouswriterwereconsultedinordertoattainusefulandimportantpastworkonsimilarproject.

INTERNET:Thisisaresearchthatwasdoneandgainedfromtheinternetinotherstogetfurtherinformation.

PERSONAL

OBSERVATION:personalinitiativecoupledwithinquisitivemeasure,interviewandvisualizethedailyactivitieshattakeplacewithinvicinityandnecessarypicturesweretakeninordertoattaintherequiredmotive

CASE

STUDIES:Thisinvolvesthethoroughsynthesisandanalysisofsimilarexistingstructure(buiding)Basedonthedatacollectedandbetterdeductionwasmadeforrealizationofthebest.

