

**ASA WOMEN USA WORLD CLASS COMPRESSIVE CANCER
TREATMENT CENTRE AT ANAMBRA STATE TEACHING
HOSPITAL, AMAKU – AWKA**

(Report by the Consultant Architect)

Introduction

Cancer has in recent times become of grave concern to Nigerians. Therefore cancer awareness has spread to all areas of the country as cancer is now prevalent in both urban and rural areas. There is the general belief that cancer has no cure. This belief is gradually giving way as many patients are surviving the affliction especially those who can afford travelling abroad. But the fact is that even in Nigeria, cancer survival rate is on the rise – thanks to advancement in medical treatments, technology and facilities. These facilities and centres are new in Nigeria and sited mainly in urban areas of Lagos, Ibadan, Abuja, Zaria and Kano. There are few others elsewhere with limited equipments. So the proposed World Class comprehensive cancer Treatment Centre at Anambra State Teaching Hospital, Amaku-Awka is a welcome development for the State. It will be the first and meanwhile the only Specialized Cancer Centre in the South East Zone of Nigeria.

Major Design Trends

- 1. Support for a Multidisciplinary team environment:-** The days of physicians, surgeons, nutritionists, and radiologists working out of separate buildings from different hospitals are long gone. Today's cancer treatment regimes call for personalised care with teams working together on a regular basis, meaning facilities need to

provide collaborative environments and flexible office space – all in one centre.

2. **Patients – Centered Design:-** Finding themselves in a health situation beyond their control, patients look forward to balance their condition by having more control over their care environment. Project goals for modern facilities must include providing patients with options, including public and private treatment spaces, indoor and outdoor respite areas, food and retail choices, and so on.
3. **Technology is here to Stay:-** From radiology to proton therapy, cancer treatment relies heavily on technology. And while it's a necessary part of care, patients don't necessarily need to know it's there. It's critical for designers to find solutions that place large pieces of technology equipments on a less intimidating scale.

Facilities Required

1. Reception and Lounge Areas
2. Conference rooms for education and consulting
3. Medical exam rooms and consulting.
4. Procedure rooms
5. X-ray, MRI, CT + PET, Ultra Sound Rooms, etc

The walls of rooms enclosing these equipments are usually double thick and lined with appropriate materials to prevent exposure to radiation.

6. Therapeutic/Treatment Rooms
7. Surgery Theatres
8. Chemotherapy with Rest Rooms

9. Radiotherapy
10. Pharmacy
11. Separate soiled and clean utility + stores
12. Staff Lounge
13. Nurse work rooms/Stations
14. Family Lounge /Waiting Spaces.

General Design Considerations

A major factor in cancer Design is the number of patients coming for examination and treatment. The number of patients which are being treated and the type of environments for healing more often than not determine the space requirements. One of the major design considerations is the patients flow and how far the patients have to travel and how direct are the access points within the design. The patient flow becomes extremely important due to the fact that cancer patients while going through treatment become fatigued and walking long distance becomes a challenge to most. Having direct areas is almost a necessity but the design still needs to maintain patient privacy.

Research has found that having direct access both visually and physically to the outdoors helps speed up the recovery process for most cancer patients. These kinds of outdoor gardens help take the mind off the treatment taking place and give the mind a place to wander during the process, especially during chemotherapy when some of the sessions may take several hours each time. Although the radiation treatment rooms don't have direct visual or physical connections to the outdoors, a new trend of placing landscaped images above the treatment table to encourage the

mind to wander off into nature as it would in the chemotherapy treatment rooms.

Facilities Provided in the Comprehensive Cancer Treatment Centre.

The proposed Cancer Treatment Centre is on three floors of a frame structure with glass curtain wall in front. This is for a pleasant aesthetical effect.

The building measures 44m x 23m x 12m high. Special facilities include ramps for challenged patients, passenger and patient lifts and a courtyard.

KEY FACILITIES PROVIDED FOR:

GROUND FLOOR

- Entrance
- Reception + Waiting
- Records + Billing /Finance Department
- CT – Scan
- PET Scan
- MRI
- X-Ray
- Radiography
- Radiotherapy
- OPD and Emergency Incl theatre + 4 Beds
- Laboratory (Pathological)
- Micro –biology Lab.
- Examination, Consultations (3 Consultants)
- Main Theatre + Minor Theatre
- Mammography
- Pharmacy + Store
- Service Lift - 1
- Passenger Lifts – 2

- Patients Lift -1
- Offices
- Toilet (Male and Female)
- Nurses Station
- Ambulance Park

FIRST FLOOR

- Multipurpose Hall (150 people)- Seminars and Workshops
- Library
- Intensive care Unit – 5 Beds
- Children Wards – 7 Beds
- Female wards – 11 beds
- Male Wards – 6 Beds
- Service Lift – 1
- Passenger Lift – 2
- Patient Lift – 1
- Nurses Stations
- Toilets

SECOND FLOOR

- Waiting Lounge
- Female ward - 18 Beds
- Male Wards - 11 Beds
- Doctors Room + 3 Offices
- Toilets
- Service Lift - 1
- Passenger Lift – 2
- Patient Lift – 1
- Nurses Stations

EXTERNAL WORKS

- Parking
- Landscaping
- Septic Tanks + SAP
- Lighting

COST ESTIMATE

Full Building Cost	-	₦ 350,337,967.00
External Works	-	₦ 10,000,000.00
Contingency Including Preliminaries	-	<u>₦ 41,641,998.00</u>
		<u>₦ 401,979,965.00</u>

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