



# Current Management of Breast Cancer in Nigeria

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And

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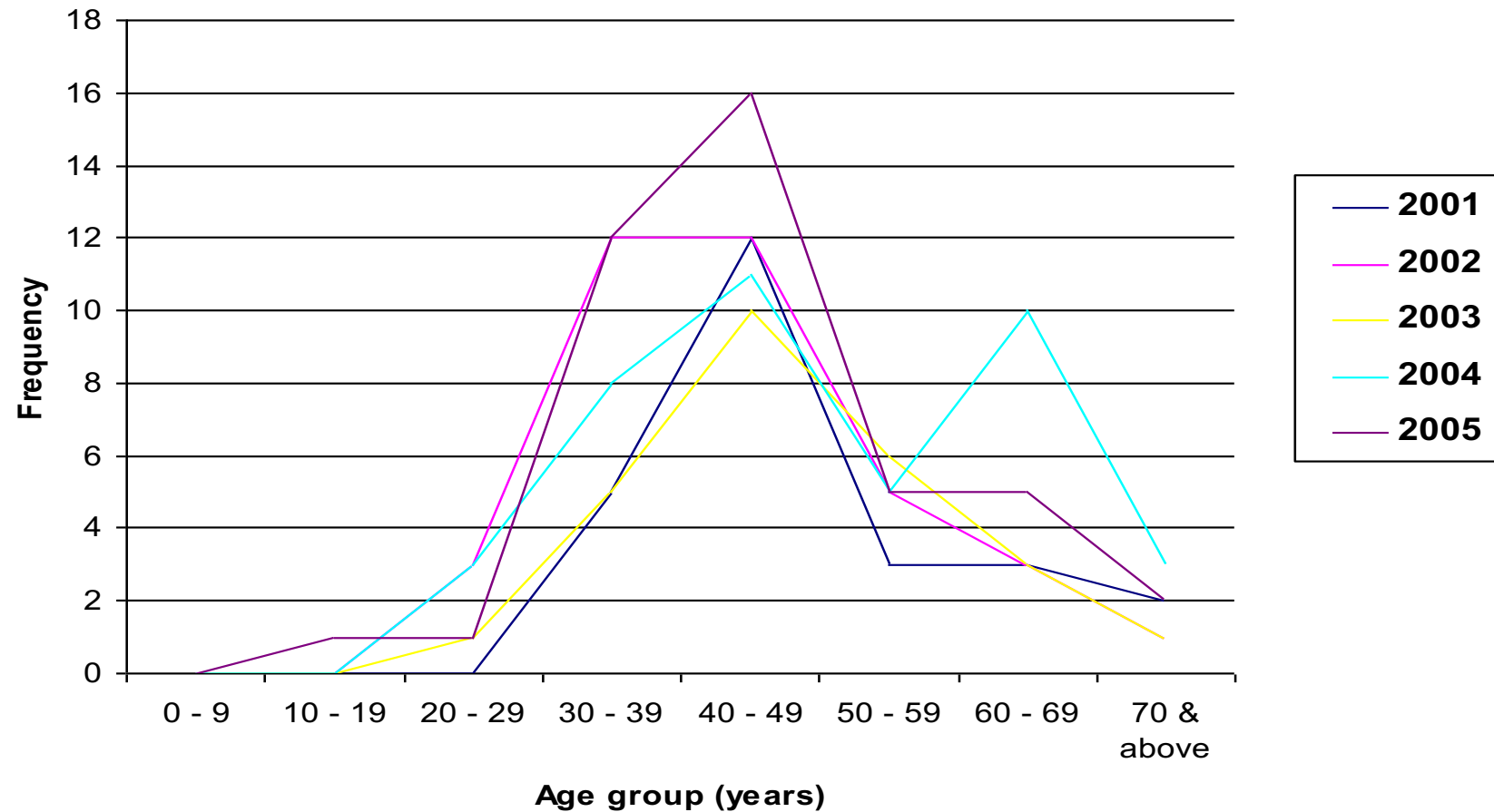
# Outline

- Introduction
- Breast Cancer Staging
- Clinical Features
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- Treatment
- Complications
- Future Trends
- Conclusion

# Introduction

- ❖ More women with breast cancer are presenting to our clinics
- ❖ Most present in advanced stages but with efforts towards early detection, hopefully more women will present with early disease

Figure: Age group & Annual frequency of Breast Cancer in Maiduguri



- ❖ Management options depends on the stage of the disease, the patients presentation and the characteristics of the tumour amongst others
- ❖ Management is individualized

# Breast Cancer Statistics

<b>Nigeria</b>						
<b>Region</b>	<b>NE Maiduguri 2008</b>	<b>NW Ilorin 2005</b>	<b>NC Zaria 1999</b>	<b>SE Enugu 2005</b>	<b>SW Ibadan 2000</b>	<b>SS Calabar 2002</b>
No of cases/Duration of study	169/5	143/8	129	164	1094	300
Prevalent age group	40-49			45	46.9	42.7
Stage at Presentation	III/IV 80%	III/IV	III/IV	III/IV 77.5%	III/IV 86.5%	III/IV
Common Histological Type	IDCA 86.2%	IDCA	IDCA	IDCA 78%	IDCA 82.3%	IDCA 80.6%
Immuno-histochemistry	no	no	no	yes	yes	Yes
Premenopausal	80%	88%	64%	69%		74.3%

# Breast Cancer Staging

Stage	TNM	Category
0	Tis N0 M0	Early
1	T1 N0 M0	Early
2	T1 N1 M0 T2 N0-1 M0	Early
3	Any T, N2-3, M0 T3, Any N, M0	Locally Advanced
4	Any T, Any N, M1	Metastatic

# Breast Cancer Staging-Molecular Biology

Type	Estrogen receptor	Progesterone receptor	Her 2 receptor	Ki 67
Lumina A	Positive	Positive	Negative	Low
Lumina B	Positive	Positive	Negative	High
Lumina B like	Positive	Any	Positive	
Her 2 positive	Negative	Negative	Positive	
Triple Negative	Negative	Negative	Negative	
Unclassified				



# Migration to the Modified TNM Staging

- ❖ In the past, tumor stage was classified using only these 3 measures. Starting in 2018, the TNM system added these measures:
  - ❖ [Tumor grade](#)
  - ❖ [Estrogen receptor status](#)
  - ❖ [Progesterone receptor status](#)
  - ❖ [HER2 status](#)

# Clinical Features

- ❖ Commoner in females but males also affected
- ❖ The number of young women presenting with breast cancer is on the increase
- ❖ Many of who have a strong family history

## ❖ Breast lump is the commonest symptom

- Lump duration is usually long
- Both breasts may be affected
- Nipple discharge may be present
- Ulceration in many cases is from inappropriate intervention

# Summary of Local Data (UATH)

- ❖ Age: 23 – 79 years  
(Average 43.5years. 38% in 4<sup>th</sup> decade)
- ❖ Affected Breast  
(Left 53%,Right 38%,Bilateral 9%)
  
- ❖ Duration of symptoms  
(One week\* to 10years)
- ❖ Pregnancy Associated 15.5%  
(Breast cancer in pregnancy 8.8%)

# Male breast Cancer -1 (23year old)



Male Breast Cancer -2 (A 50year old man with A Locally Advanced (T4N1M0) Lumina B-like (ER+, Her 2 +) Invasive Ductal Carcinoma of the left Breast)



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- ❖ **Systemic symptoms are common on presentation**
- ❖ History of use of combined oral contraceptive as well as hormone replacement therapy is infrequent
- ❖ Many of the affected women are multiparous and have breast fed their children for 12-24 months\*\*
- ❖ Exposure to radiation, alcohol use and **tobacco smoking\*** is uncommon (except in some states in the NW Nigeria)

- ❖ History of previous breast disease is important
- ❖ A good number of patients show features of chronic ill health
- ❖ Emergency presentation is usually due to pleural effusion, anaemia or anaemic heart failure and bleeding from ulcer
- ❖ Most of the lumps are > 5cm in size
  - By this time they are usually attached to chest wall, or skin involved



- ❖ Lymph node involvement is almost always present
- ❖ Features of metastasis may not be immediately apparent in some cases

# Investigations

## ❖ Imaging

- Ultrasound – breast, abdomen, pelvis
- Plain X-rays – chest, skull, spine, long bones
- Mammography
- MRI\*
- Bone Scan\*

## ❖ FNAC\*

## ❖ Biopsy

- Open : incisional, excisional
- **Trucut**

- ❖ Image guided tissue biopsy\*
- ❖ Sentinel lymph node biopsy\*
- ❖ Tissue Analysis
  - Histology
  - Subtype
  - Grade
  - Receptor Status
    - ER
    - PR
    - HER 2
  - Ki 67

## ❖ Blood

- Full Blood Count
- Liver function test
- Kidney function test

## ❖ Tumour Markers

- Ca 15-3
- CEA

## ❖ Others

- Wound swab M/C/S

# Management Approach

❖ Multimodal

❖ Multidisciplinary

❖ Tumour board

# Treatment

## A. Loco-regional Control

### ❖ Surgery

- Breast conservation\*
- Simple Mastectomy
- Modified radical mastectomy
- ( Preop downstaging& reduction of locoregional recurrence strategies)

### ❖ Radiotherapy

### ❖ Cryoablation

- cryoprobe

## B. Systemic Treatment

### ❖ Chemotherapy

- First line – CMF, FEC,
- Second line – Taxane added
- Third line – Platinum compound added

### ❖ Target Therapy

- Trastuzumab\*

## C. Hormonal Manipulation

- Anti estrogens
- Aromatase inhibitors



## D.OTHERS

- ❖ Wound care- fungi, maggots, traditional applications e.t.c.
- ❖ Tetanus prophylaxis
- ❖ Bleeding

# Management of Breast Cancer in Pregnancy

## ❖ First trimester

- Radiotherapy avoided in all stages
- Chemotherapy avoided
- Surgery with some risks due to general anaesthesia

## ❖ Second trimester

- Chemotherapy\*
- Surgery

## ❖ Third trimester

- Chemotherapy\*
- Surgery

# Challenging Complications

- ❖ Recurrent Pleural effusion
- ❖ Recurrence Local
- ❖ Mets to CNS ( Brain and spinal cord with attendant complications forcing multidisciplinary care)
- ❖ Lymphedema
- ❖ Bone marrow failure (White cell line)
- ❖ Managing relations of people living with advanced breast cancer\*

# Prognosis

- ❖ Outcomes of breast cancer treatment in Nigeria remains poor
  - Kene et al in 2010 reported an overall survival rate beyond 36months at 70.4%
  - Papoola et al in LASUTH in 2012 reported 5 years survival rate of 25.6%
    - Stage III and IV diseases had 5 year survival rates of 15% and 5% respectively
    - Others: Haj,25, BD,19, Shehu-15

# Recent Positive Developments

- ❖ National Cancer Control Program

- ❖ Tumour Boards

- ❖ Public Private Partnership

- ❖ NGOs and Advocacy

# Future Trends

## ❖ Nigeria is in need of advancement in several modalities of management of breast cancer

- MRI
- Functional Radiotherapy Centres
- Genetic Studies – BRCA 1 and 2 genes, TP53, PTEN
- Prophylactic mastectomy
- Oncoplastic surgery
- Clinical Trials
- National guidelines on treatment
- Capacity building (medical oncology)

## ❖ *Liquid biopsy\**

## ❖ *Uniform reporting\* and the use modified TNM staging*

# Challenges of Breast cancer Management

- ❖ Late presentation
- ❖ Poor referral and feedback system
- ❖ Inadequate facilities
- ❖ Poor strategy in early detection, **diagnosis\*** and treatment
- ❖ Poor funding/inadequate allocation to health

# Teaching Hospitals with Radiotherapy facilities in Nigeria

- 1) \*Lagos University Teaching Hospital and EKO Hospital
- 2) University College Hospital, Ibadan
- 3) \*National Hospital Abuja
- 4) Ahmadu Bello University Teaching Hospital, Zaria
- 5) University of Nigeria Teaching Hospital, Enugu
- 6) University of Benin Teaching Hospital
- 7) Usman Danfodiyo Teaching Hospital, Sokoto
- 8) Federal teaching Hospital Gombe
- 9) Other “unnamed sites”



# Conclusion

- ❖ Management of breast cancer in Nigeria is challenging
- ❖ Most patients present with advanced disease
- ❖ There is urgent need for improvements in strategy, facilities and manpower in this regard
- ❖ **The Discipline of Women Health (Breast, Cervix and Thyroid gland)**



THANK YOU FOR  
LISTENING