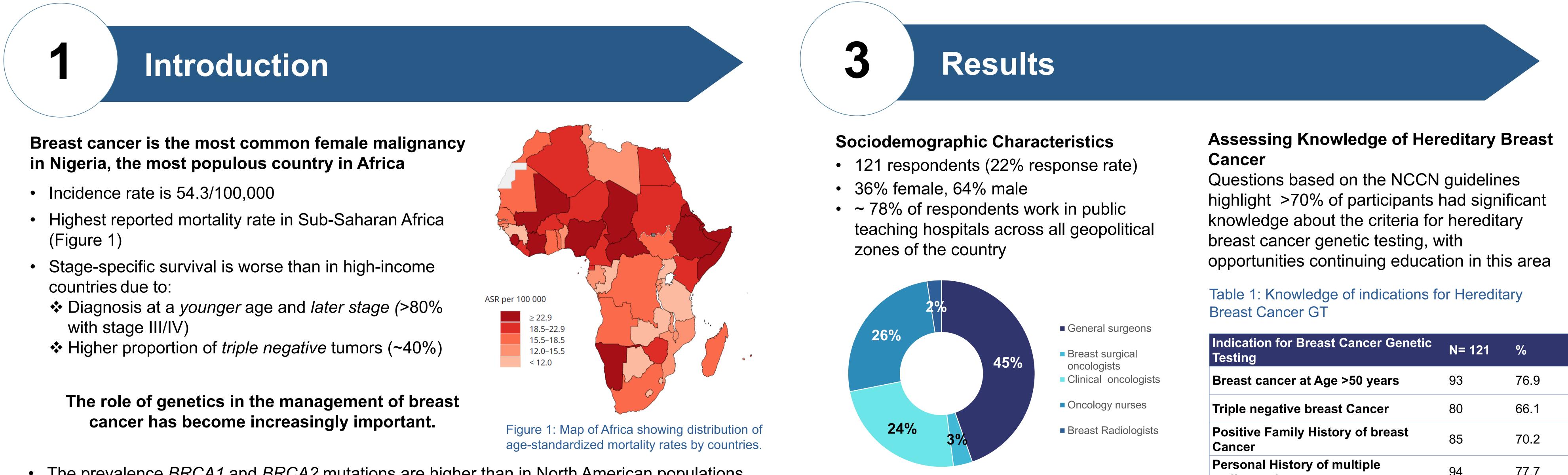


Genetic Testing for Breast Cancer Patients in Nigeria: A Survey of Health Care Providers

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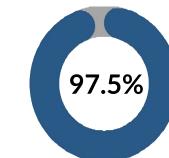


- The prevalence BRCA1 and BRCA2 mutations are higher than in North American populations (7.1% and 3.9% respectively)
- Low and middle-income countries like Nigeria have limited access to genetic counseling and testing

Objective: To assess the knowledge and perceptions of hereditary breast cancer testing amongst breast cancer health care providers (HCP's) in Nigeria

Figure 3: Composition of survey participants

Barriers to Genetic Testing (GT) in Clinical Practice



57.9%

52.9%

Lack of a genetic counselling services Despite assess to some testing facilities, the number of trained genetic counsellors in the country

Indication for Breast Cancer Genetic Testing	N= 121	%
Breast cancer at Age >50 years	93	76.9
Triple negative breast Cancer	80	66.1
Positive Family History of breast Cancer	85	70.2
Personal History of multiple malignancies	94	77.7

Training

 <10% of respondents have formal genetics training





The following disciplines were included: general surgeons, radiation

WhatsApp

36 MCQs and 5-point Likert scale questions with weekly reminders **Data Collection** and Analysis

Data collection was ongoing for 4-weeks in June 2022 and responses were analyzed using SPSS

is limited

No Pathway for Referral

No direct referral pathways to genetic testing and counselling services

Lack of testing facilities

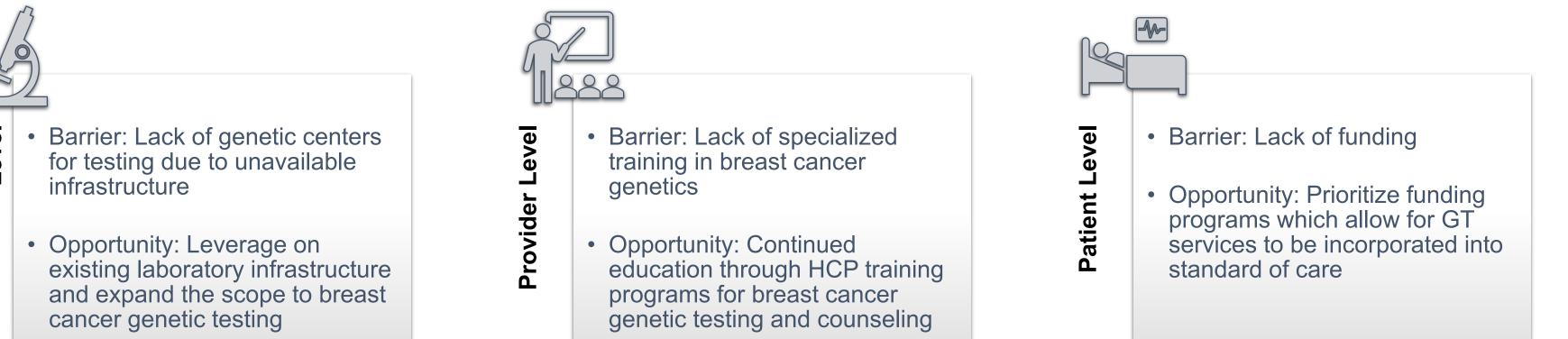
Nigeria has capacity for sequencing, however infectious diseases are often prioritized. GT usually done privately at high out of pocket cost to patient

- All are willing to be trained or send a colleague from their institution for training
- Preferred mode of training is hybrid (online and in person) model

BRCA 1 & BRCA 2 breast cance Sharing Genetic Test Results with

Discussion and Conclusions

- Breast cancer is steadily increasing in Nigeria, with over 40% of patients with TNBC
- This survey highlights the need for breast cancer genetic training for HCPs



explored the domains of knowledge, perceptions, and *training* related to hereditary breast cancer

forms

The questionnaire

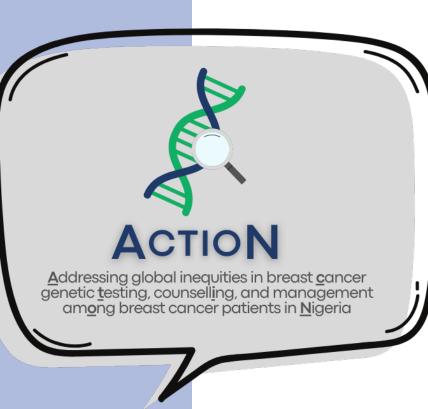
oncologists, breast were sent on WhatsApp radiologists, nurse oncologists

Figure 2: Methodology process flow

REB approval was obtained from Obafemi Awolowo University Teaching Hospitals Complex, lle-lfe, Nigeria.

Conclusion: This survey study identified a variety of barriers to genetic testing access for breast cancer patients in Nigeria. It also highlighted educational opportunities for HCPs. Improving access and care in this area will require a multi-pronged approach to address these specific issues.

Future Study: Our group has undertaken a 3-phase project including development of educational modules for genetic testing information and a pilot study to develop a genetic testing program in 3 Nigerian Hospitals.



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