Diagnosis of cancer in Nairobi, Kenya: duration and causes of delay

Submission date	Recruitment status	Prospectively registered
24/03/2025	No longer recruiting	☐ Protocol
Registration date	Overall study status	Statistical analysis plan
17/04/2025	Completed	Results
Last Edited	Condition category	Individual participant data
07/04/2025	Cancer	[X] Record updated in last year

Plain English summary of protocol

Background and study aims

Cancer is a leading cause of death worldwide. Patients with cancer in sub-Saharan Africa have a higher death rate than patients with cancer in high-income countries. This is largely because the majority of patients in sub-Saharan Africa present with cancer late, when it has done a lot of damage to the body and the chances of a cure are low. It is therefore important that patients are diagnosed earlier so that they can receive treatment before the cancer spreads. This study aims to better understand delays in the pathway to care and the factors contributing to these delays in Kenya. The study is focused on four common cancer types: breast, colorectal, head-and-neck, and cervical cancer. These cancers are treatable if diagnosed early and often present noticeable symptoms.

Who can participate?

Patients aged 18 years and older who have been diagnosed for the first time with breast, colorectal, head-and-neck, or cervical cancer, who present at the Kenyatta National Hospital, a government-owned national referral and specialized hospital in Kenya.

What does the study involve?

The study will involve one-to-one interviews with patients diagnosed with the selected cancers. A semi-structured questionnaire will be used to explore the time to diagnosis in three stages: The first stage is from when the patient first notices a change in their body/symptom to when they first present to a formal healthcare provider.

The second stage is from when the patient presents to a formal healthcare provider to when they receive a cancer diagnosis.

The third stage is from when the patient receives a diagnosis to when they start treatment. The study will recruit 40 to 50 patients for each cancer type from Kenyatta National Hospital. A clinician or nurse from the hospital will assist in identifying and approaching the eligible patients. If the patient agrees to participate, their contact details will be shared with the research team, who will then arrange an interview.

All participants will be required to provide written consent before the interviews. The researchers will examine the information from the interviews to calculate the time between each of the stages and identify the reasons for the delay at each stage.

What are the possible benefits and risks of participating?

There are no direct benefits or risks of participating in the study. However, some patients may find it distressing to discuss their cancer journey. The research team is trained to provide support and refer patients to emotional support services if needed. If a patient becomes too distressed, the interview will be stopped.

Where is the study run from?

The study is a collaboration between the African Population and Health Research Center (APHRC) in Kenya, the University of Birmingham in the UK, and the University of Ibadan in Nigeria.

When is the study starting and how long is it expected to run for? November 2024 to July 2025

Who is funding the study?
National Institute for Health and Care Research (NIHR) Global Health Programme (UK)

Who is the main contact? Lyagamula Kisia, lkisia@aphrc.org

Contact information

Type(s)

Principal investigator

Contact name

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Type(s)

Public, Scientific

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Additional identifiers

Clinical Trials Information System (CTIS)

Nil known

ClinicalTrials.gov (NCT)

Nil known

Protocol serial number

NIHR158242

Study information

Scientific Title

The delays in cancer care and the associated causes of the delays in Nairobi, Kenya

Study objectives

The findings will provide preliminary evidence to inform policy and decision-makers in designing and implementing multilevel and holistic approaches to cancer control and improving the overall care pathway. It will also inform subsequent work packages in a programme of work in which this is the first part.

Ethics approval required

Ethics approval required

Ethics approval(s)

- 1. approved 05/11/2024, African Population Health Research Center (APHRC) (APHRC Campus, Manga Close, Kirawa road, Nairobi, PO Box 10787-00100, Kenya; +254 (0)722205933; info@aphrc.org), ref: DOR/2024/058
- 2. submitted 15/11/2024, Kenyatta National Hospital/University of Nairobi (Ethics and Research Committee, College of Health Sciences, Nairobi, PO Box 19676-00202, Kenya; +254 (0) 721257746; uoknh erc@uonbi.ac.ke), ref: N/A
- 3. notYetSubmitted, National Commission for Science, Technology and Innovation (Waiyaki Way, Upper Kabete, Nairobi, PO Box 30623, 00100, Kenya; +254 (0)204007000; info@nacosti.go.ke), ref: N/A

Study design

Mixed-methods cross sectional study

Primary study design

Observational

Study type(s)

Other

Health condition(s) or problem(s) studied

Breast, colorectal, head-and-neck, or cervical cancer

Interventions

Semi-structured interviews with patients with a recent diagnosis of cancer to elicit patients' accounts of their cancer care pathway

The study will involve one-to-one interviews with patients diagnosed with the selected cancers. A semi-structured questionnaire will be used to explore the time to diagnosis in three stages: The first stage is from when the patient first notices a change in their body/symptom to when they first present to a formal healthcare provider.

The second stage is from when the patient presents to a formal healthcare provider to when they receive a cancer diagnosis.

The third stage is from when the patient receives a diagnosis to when they start treatment. The study will recruit 40 to 50 patients for each cancer type from Kenyatta National Hospital. A clinician or nurse from the hospital will assist in identifying and approaching the eligible patients. If the patient agrees to participate, their contact details will be shared with the research team, who will then arrange an interview.

All participants will be required to provide written consent before the interviews.

The researchers will examine the information from the interviews to calculate the time between each of the stages and identify the reasons for the delay at each stage.

Intervention Type

Other

Primary outcome(s)

- 1. Duration of delays will be measured using a semi-structured interview instrument at three timepoints that is point 1 (recognition of symptoms to presentation to a formal healthcare provider), point 2 (presentation to a formal healthcare provider to diagnosis), point 3 (diagnosis to resolution).
- 2. Patient experiences will be elicited using a semi-structured interview instrument at three timepoints that is point 1 (recognition of symptoms to presentation to a formal healthcare provider), point 2 (presentation to a formal healthcare provider to diagnosis), point 3 (diagnosis to resolution).

Key secondary outcome(s))

There are no secondary outcome measures

Completion date

31/07/2025

Eligibility

Key inclusion criteria

- 1. Patients with a first histologically confirmed diagnosis of breast, colorectal, head and neck, or cervical cancer
- 2. Patients aged 18 years and above
- 3. Patients referred from the Nairobi Metropolitan Area (NMA)
- 4. Patients capable of providing informed consent

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

Αll

Key exclusion criteria

- 1. Patients with a diagnosis of a cancer secondary to a primary cancer
- 2. Any patients who are acutely ill or receiving end-of-life care
- 3. Patients with a recurrent cancer

Date of first enrolment

15/04/2025

Date of final enrolment

15/06/2025

Locations

Countries of recruitment

Kenya

Study participating centre Kenyatta National Hospital

Hospital Road Nairobi Kenya PO Box 20723-00202

Sponsor information

Organisation

University of Birmingham

ROR

https://ror.org/03angcq70

Funder(s)

Funder type

Government

Funder Name

National Institute for Health and Care Research

Alternative Name(s)

National Institute for Health Research, NIHR Research, NIHRresearch, NIHR - National Institute for Health Research, NIHR (The National Institute for Health and Care Research), NIHR

Funding Body Type

Government organisation

Funding Body Subtype

National government

Location

United Kingdom

Results and Publications

Individual participant data (IPD) sharing plan

The data-sharing plans for the current study are unknown and will be made available at a later date.

IPD sharing plan summary

Data sharing statement to be made available at a later date

Study outputs

Output type Details Date created Date added Peer reviewed? Patient-facing?

Yes

Participant information sheet Participant information sheet 11/11/2025 No