

# 33 CONGRESO SNCL

**Valencia**  
17 DE ENERO DE 2026

Sociedad de Neurocirugía de Levante de  
las Comunidades de Valencia y Murcia

ORGANIZA:



SOCIEDAD DE  
NEUROCIRUGÍA  
DE LEVANTE DE LAS  
COMUNIDADES  
DE VALENCIA  
Y MURCIA



Hospital Clínic  
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**GLOBAL NEUROSURGERY IN THE COASTAL  
REGION OF KENYA  
A RESIDENT'S PERSPECTIVE**



# Authors

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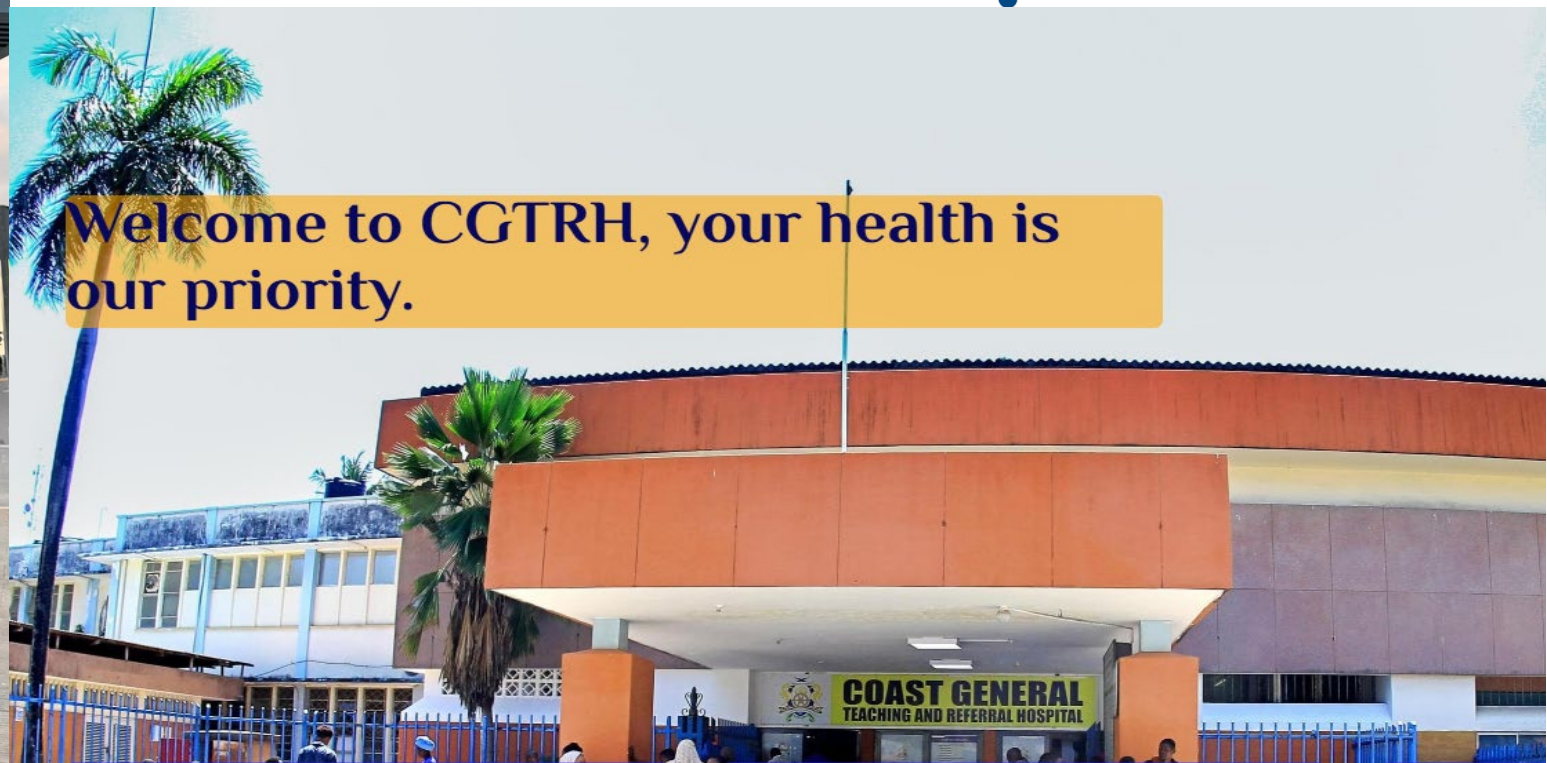


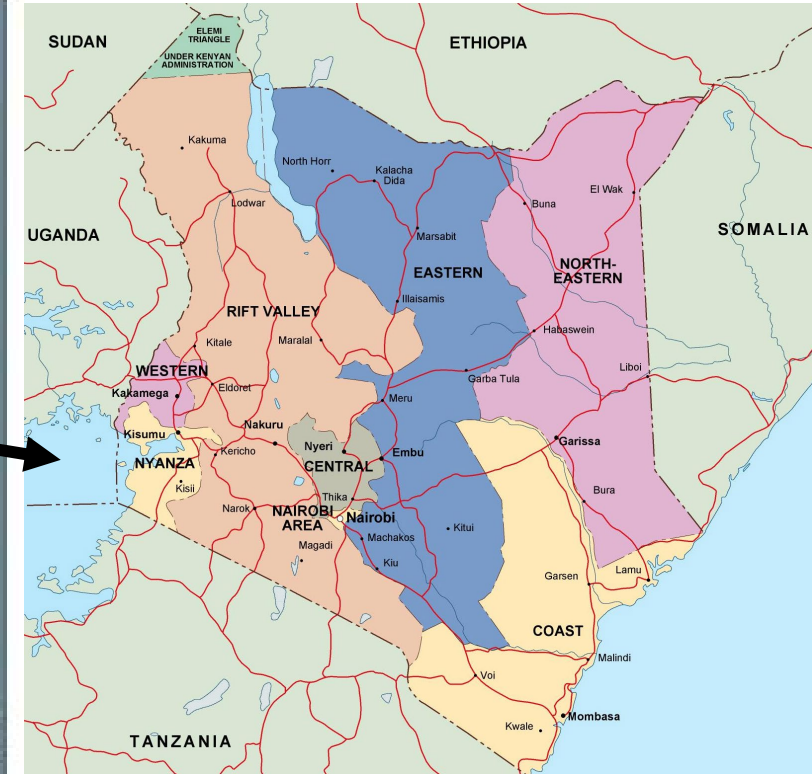
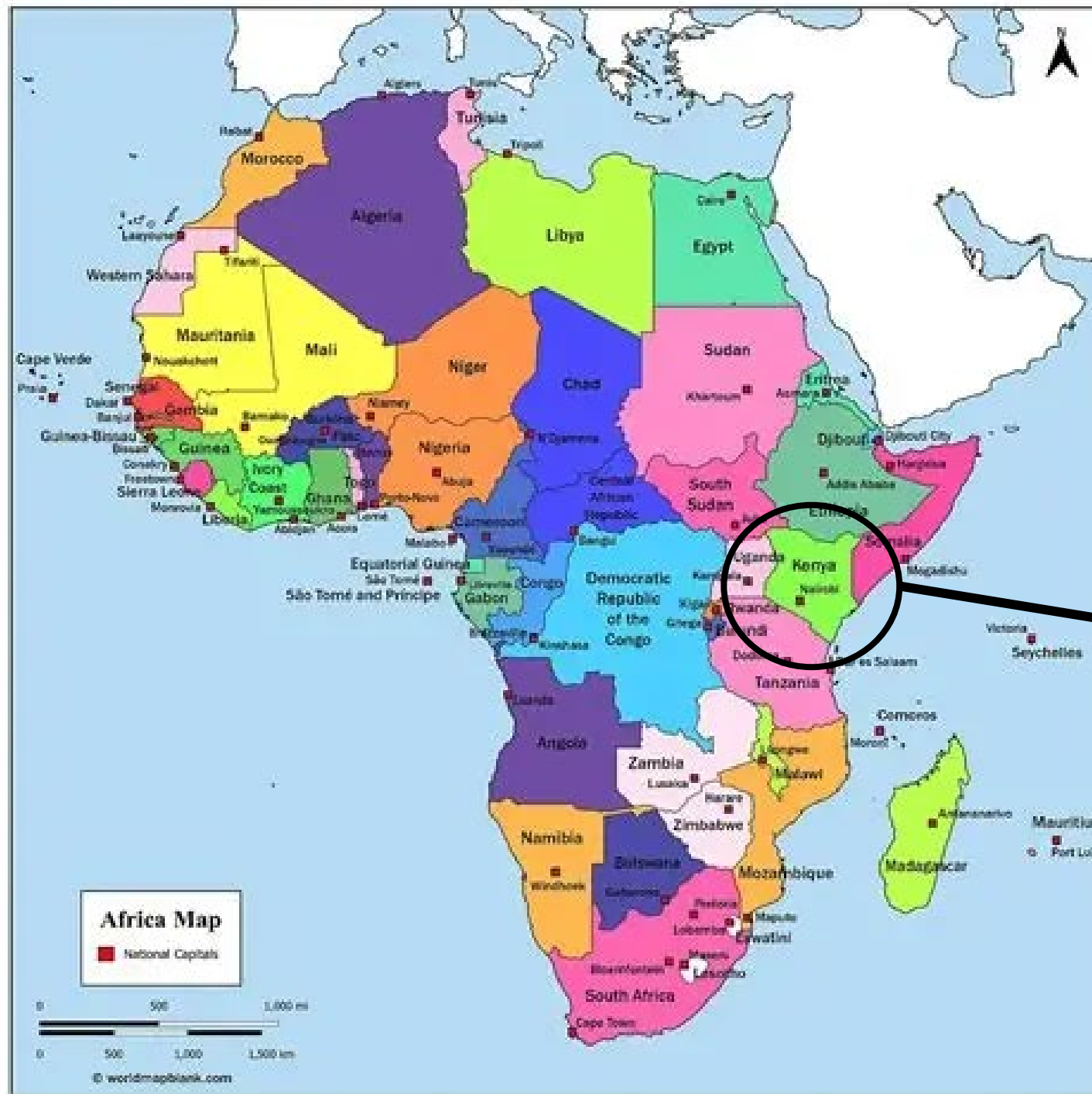
# Introduction



NED

Welcome to CGTRH, your health is  
our priority.

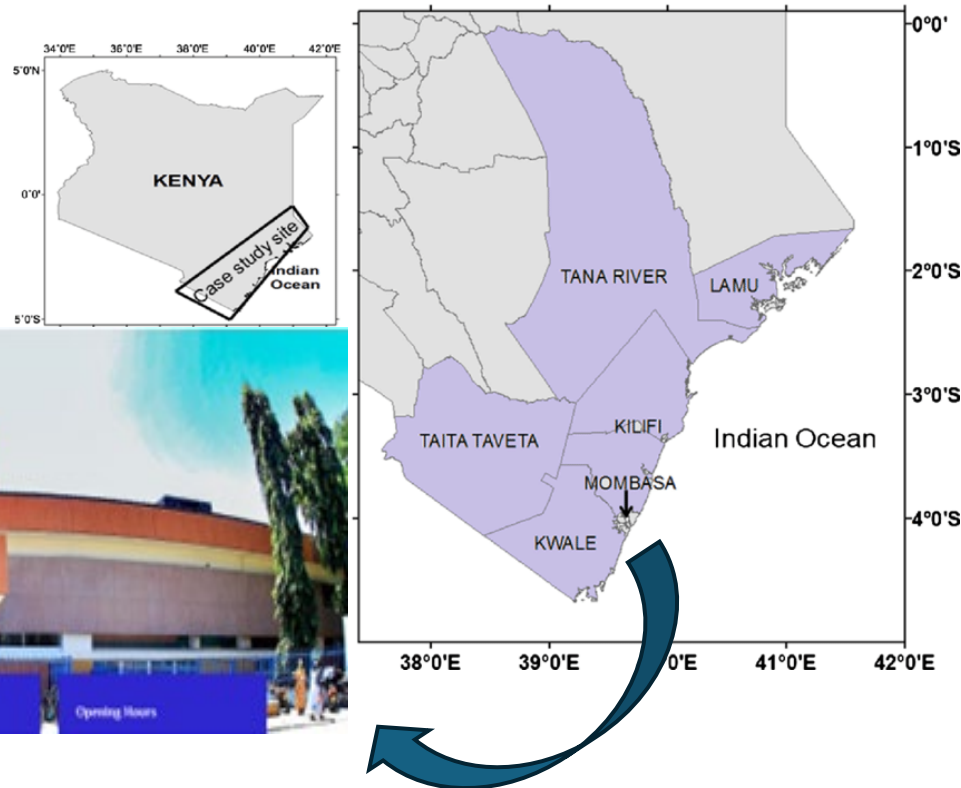




Kenya has about 55 neurosurgeons  
for a population of 53 million

# Introduction

The Coastal region of Kenya has a population of about 4.7 million and extends from Lamu to Kwale.



# Introduction

- Reported central nervous system tumours in Africa are thought to underrepresent the actual number.
- This study focuses on the experience of our institution regarding patients harboring central nervous system tumour types.



This study presents a descriptive cross-sectional analysis of patients examined at the Coast General Teaching and Referral Hospital

Period: 2023-2025



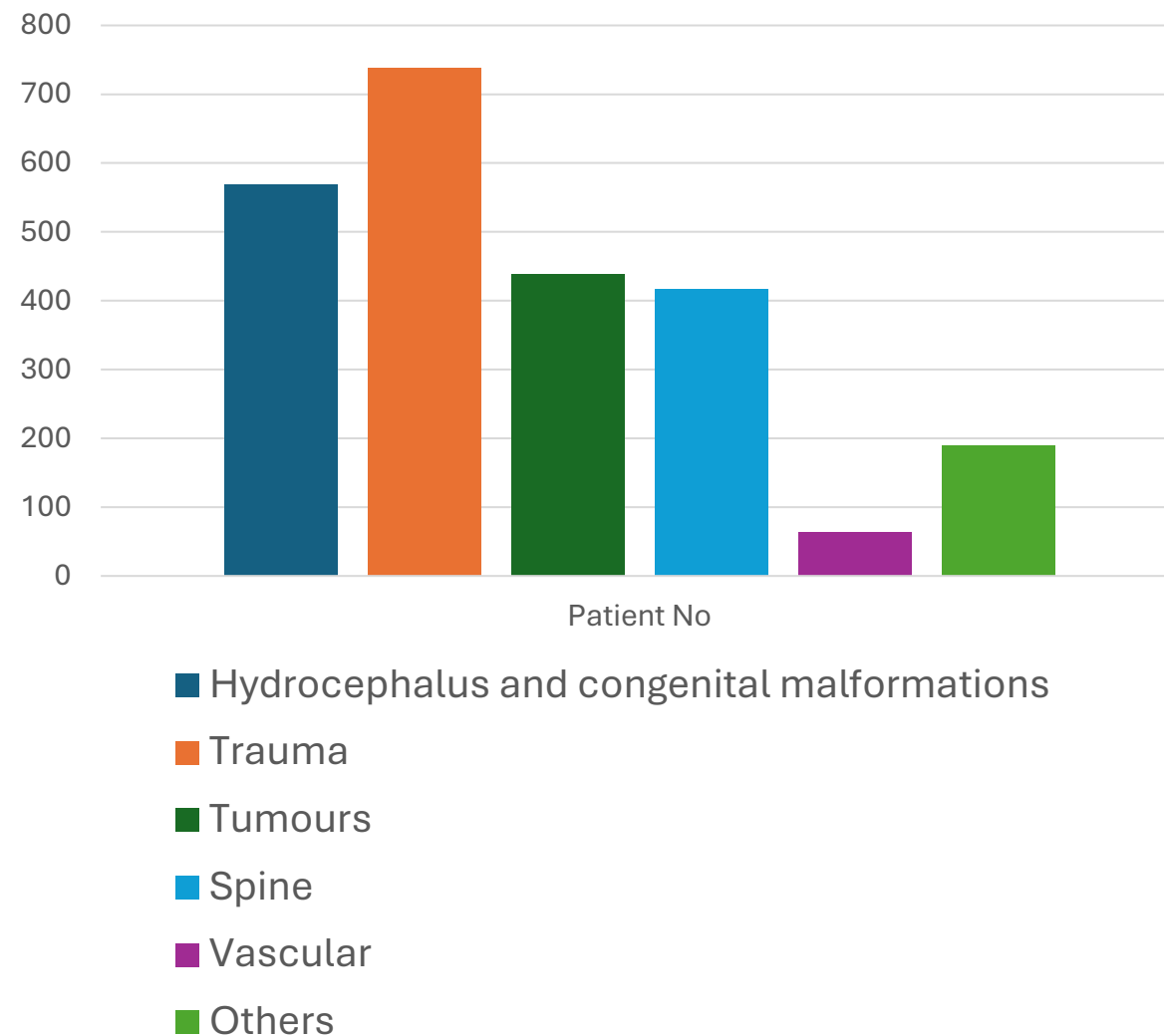
# Methods

- Clinical, radiological and surgical data was collected from the hospital's comprehensive paper health records from varied departments.
- We utilised descriptive statistics for a thorough analysis of the data.



## NEUROSURGERY PATIENTS REVIEWED BETWEEN THE YEARS 2023 TO 2025

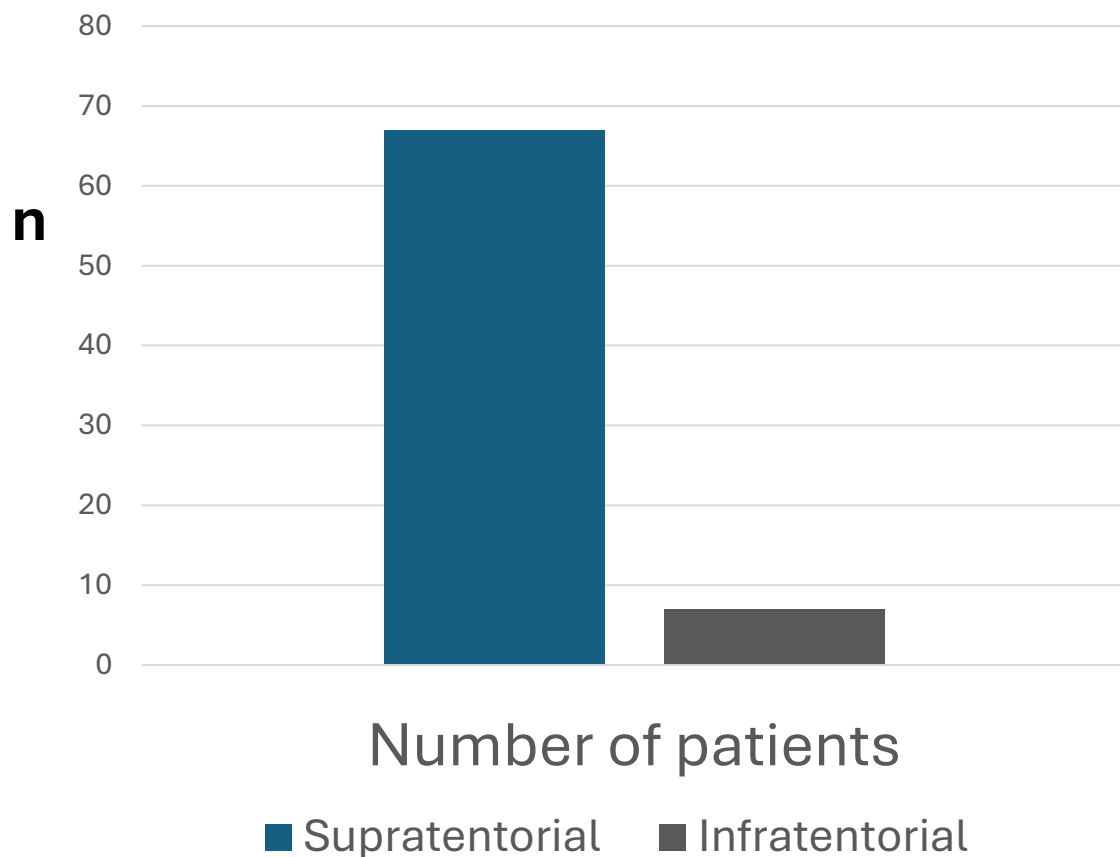
|            |      | ADULTS        | CHILDREN     |
|------------|------|---------------|--------------|
| Outpatient | 2665 | 1893<br>(71%) | 769<br>(29%) |
| Theatre    | 730  | 453<br>(62%)  | 277<br>(38%) |
| Cath lab   | 15   | 15            | -            |



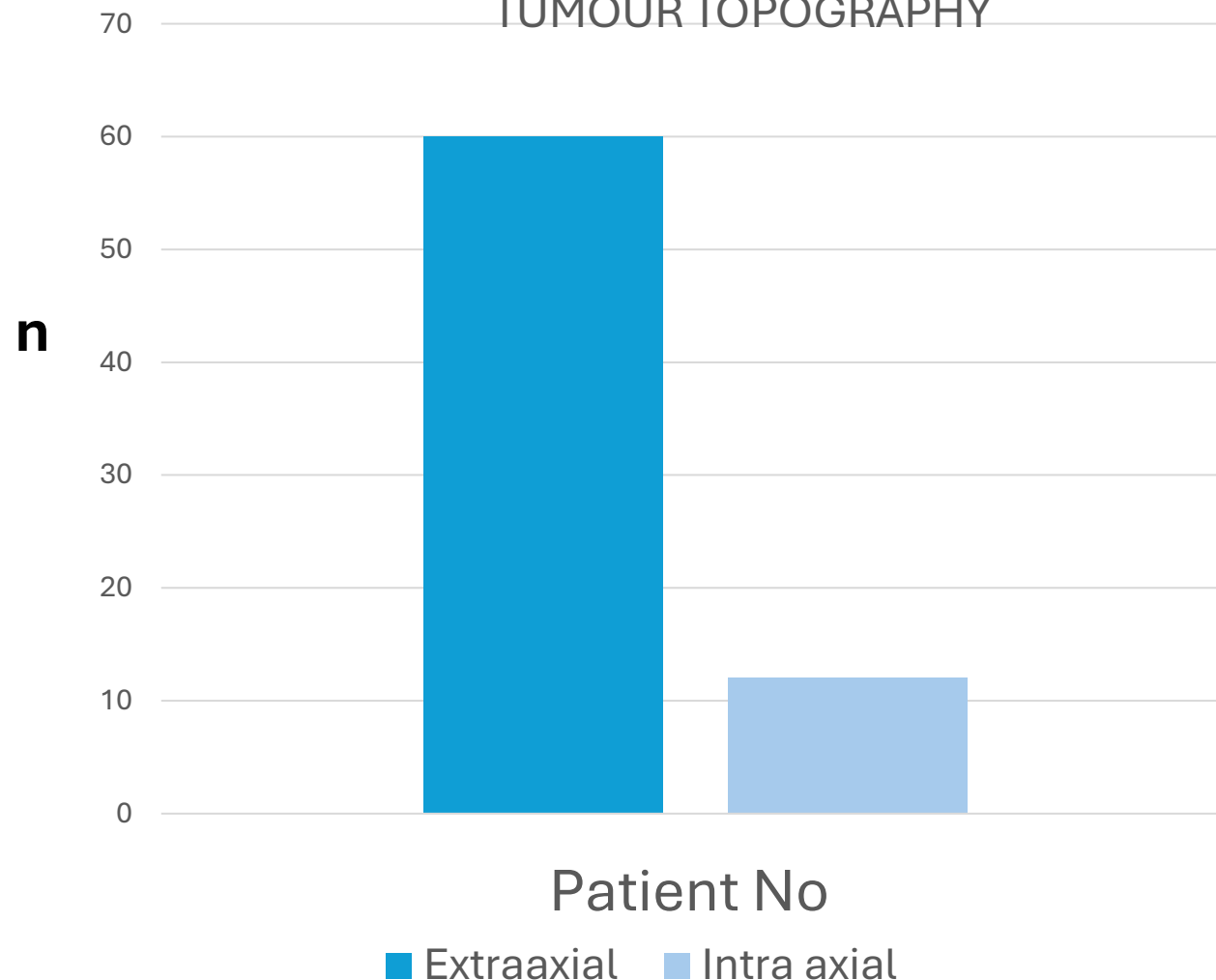
# Results:

## Brain Tumors – surgical patients (n)

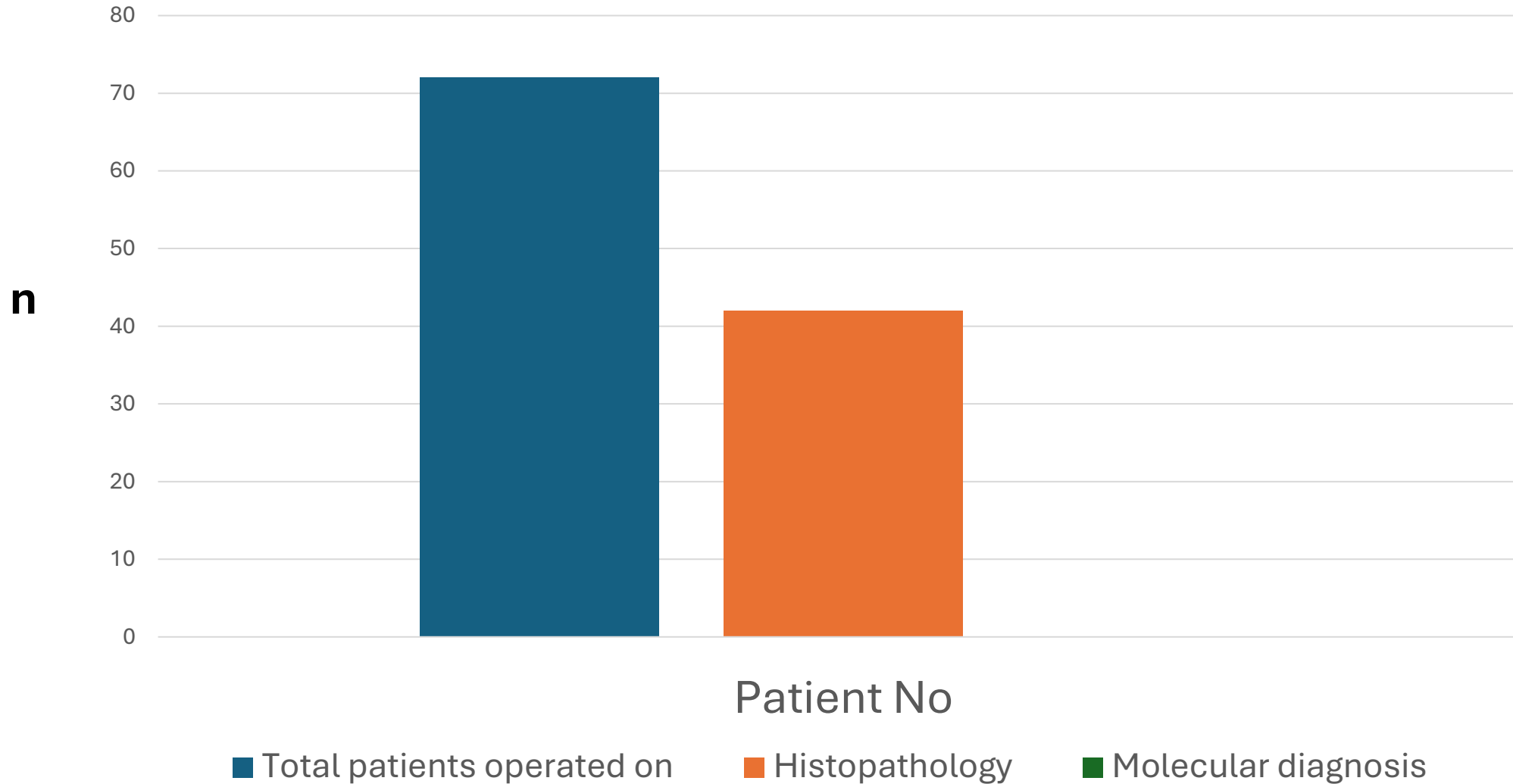
TUMOUR LOCATION



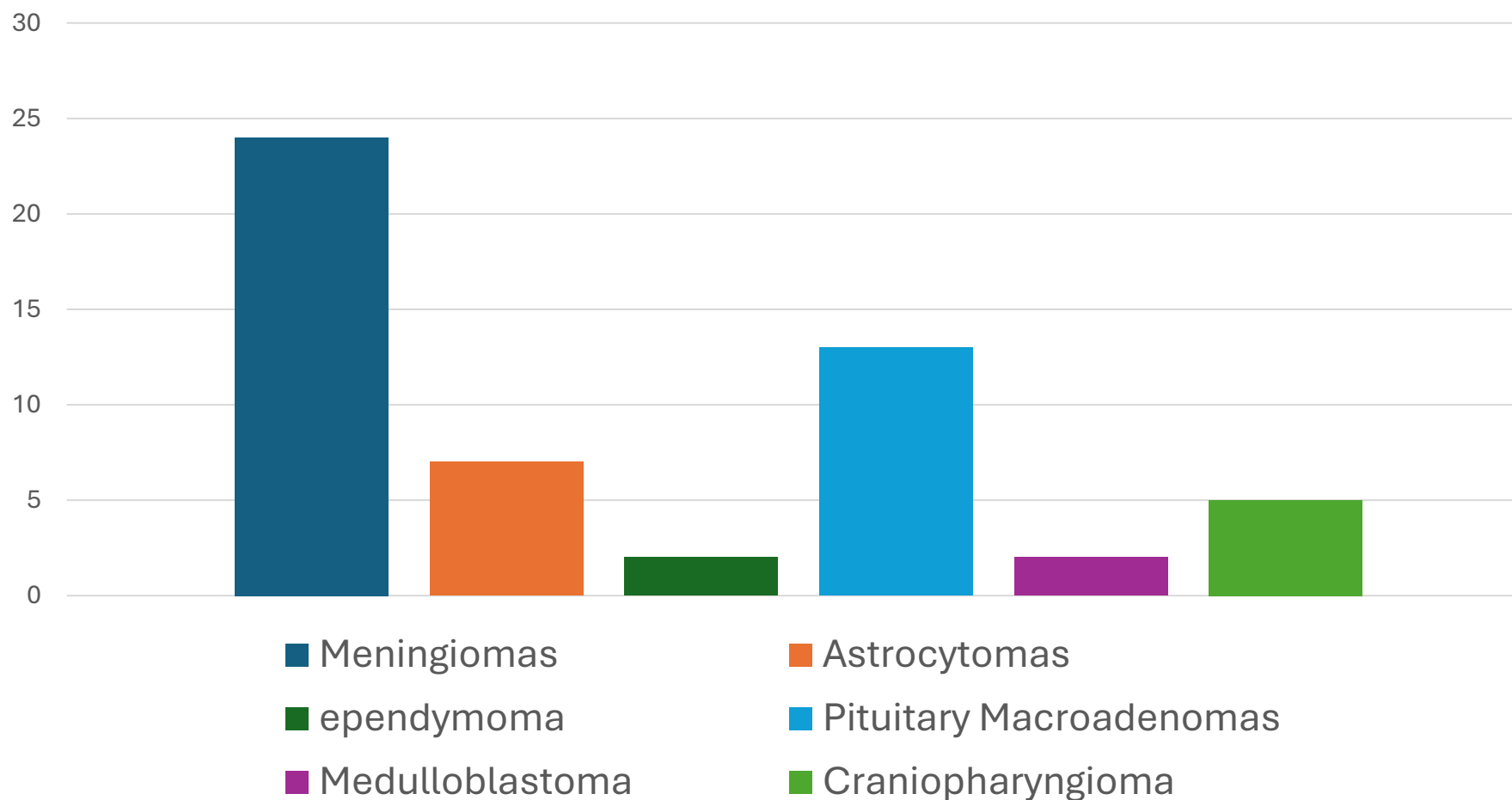
TUMOUR TOPOGRAPHY



## Number of patients with histopathology results



## Histopathology



# Discussion

## Burden of disease

- Patients reviewed patients who eventually undergo surgery in our facility are not representative of the number seen in clinic.
- Factors limiting effective diagnosis and treatment of CNS tumours.
  - Infrastructure
  - Limited human resources
  - Diagnostic and interventional technology.
  - Social, cultural and political influences

### JOURNAL ARTICLE

## Adult brain tumors in Sub-Saharan Africa: A scoping review FREE

Ulrick Sidney Kanmounye, Claire Karekezi, Arsene Daniel Nyalundja, Ahmed K Awad, Tsegazeab Laeke, [James A Balogun](#) 

*Neuro-Oncology*, Volume 24, Issue 10, October 2022, Pages 1799–1806,  
<https://doi.org/10.1093/neuonc/noac098>

**Published:** 09 April 2022    **Article history** ▼

## Brain and Behavior



REVIEW |  Open Access |  

## Epidemiology and etiology of brain cancer in Africa: A systematic review

[Olivier Uwishema](#) , [Kristian Steen Frederiksen](#), [Rawa Badri](#), [Aishwarya Umesh Pradhan](#), [Sanobar Shariff](#), [Irem Adanur](#), [Burhan Dost](#), [Ignatius Esene](#), [Gail Rosseau](#)

First published: 14 June 2023 | <https://doi.org/10.1002/brb3.3112> |  **VIEW METRICS**

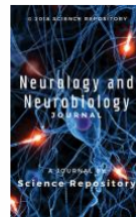
# Discussion: Epidemiology

- Epidemiology and data management are key in guiding resource allocation and management of CNS tumours.
- Epidemiology informs the implementation of diagnostic and interventional protocols tailored to our specific setting and available resources.
- Effective data management highlights gaps in care of CNS patients

## JOURNAL ARTICLE

### The need for a central brain tumor registry in Africa: A review of central nervous system tumors in Africa from 1960 to 2017 FREE

Marilyn Keng-Nasang Mbi Feh, Kristopher A Lyon ✉, Ankita V Brahmaroutu, Ramya Tadipatri, Ekokobe Fonkem



Available online at [www.sciencerepository.org](http://www.sciencerepository.org)

Science Repository



## Research Article

### Epidemiologic Study of Central Nervous System Tumors in Rwanda

David Hakizimana<sup>1,2,3\*</sup>, Agabe Emmy Nkusi<sup>1,2,3</sup>, Severien Muneza<sup>1,2,4</sup>, Steven Nshuti<sup>1,2,4</sup>, Paulin Munyemana<sup>1,2</sup> and Eric Shingiro<sup>1,2</sup>

# Discussion:

## Oncological limitations

- Of the patients reviewed in our study, two-thirds had a histopathological diagnosis; none had a molecular diagnosis.
- Access to radiotherapy and targeted molecular therapy is significantly limited in our setting.
- With a rising burden of Cancer in the developing world, there are gaps that may need to be addressed in a future study.

symposium article

*Annals of Oncology* 17 (Supplement 8): viii15–viii23, 2006  
doi:10.1093/annonc/mdl983

## **The rising burden of cancer in the developing world**

P. Kanavos\*

*Department of Social Policy, London School of Economics, London, UK*

# Conclusion

This study demonstrates the burden of neuro-oncology in Kenya's coastal region and across sub-Saharan Africa. There is a need for increased capacity in both human and technological resources to ensure timely diagnosis and treatment, accurate prognosis, and, ultimately, to pave the way for molecular diagnostics.

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# *Asante Sana*

