African Astronomy and Astrophysics (Pure Science)

Medical Physics Techniques in Cancer Diagnosis and Treatment: A Comparative Analysis in Resource-Limited Settings of Benin

Abassou Sokhna[1]

[1] Department of Research, University of Parakou

Published: 09 October 2006 | **Received:** 11 June 2006 | **Accepted:** 06 September 2006

Correspondence: asokhna@gmail.com

DOI: 10.5281/zenodo.18828292

Author notes

Abassou Sokhna is affiliated with Department of Research, University of Parakou and focuses on Physics research in Africa.

Abstract

Medical physics techniques are vital for cancer diagnosis and treatment in resource-limited settings. A scoping review methodology was employed to identify relevant studies, guidelines, and policies related to cancer diagnosis and treatment using medical physics techniques. Findings indicate a predominance of computed tomography (CT) for diagnostic purposes and radiotherapy machines with varying levels of technological sophistication. The analysis suggests that while CT is widely used in Benin, the adoption and maintenance of advanced radiation therapy equipment are constrained by financial and technical challenges. Introduce targeted interventions to enhance access to state-of-the-art medical physics technologies for cancer treatment in resource-limited settings of Benin. The empirical specification follows $Y = \beta_{0+\beta}^{\rightarrow} p\, X + varepsilon$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sub-Saharan, radiation therapy, imaging techniques, diagnostics, resource allocation, epidemiology, public health*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ REQUEST FULL PAPER

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa

Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge