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Present Address

Chief Medical Physicist

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Academic Qualification:

- D.Sc , GLA University Mathura (2018- Ongoing)
- Ph.D. GLA University Mathura (2014-2017)
- Master in Science (Physics) from Calcutta University (1999-2001)
- Diploma in Radiological Physics (Dip. R.P) Bhaba Atomic Reserch centre, Mumbai (2003-2004)
- Junior Reserch Scholar , Tata Istitute of Fundamantal Research (TIFR) Mumbai (2001-2003)

Working Experince as Medical Physicist- 19+years in

- (1) RST Regional Cancer Centre Nagpur (2004-2006)
- (2) Amrita Viswavidhaphitham /Amrita Institute -of Medical Scincec Kochi (2007-2008)
- (3) AMRI Hospitals, Kolkata (2008-2012)
- (4) Fortis Memorial Reserch Institute , Gurgaon. (2012-2018)
- (5) Manipal Hospitals, Dwarka, new Delhi (2018-2019)
- (6) Apollo Multispeciality Hospitals , Kolkata (2019-

University Teaching Experince (Medical Physics) – 5 year 4 months.

- (1) Amrita Viswavidhaphitham /Amrita Institute of Medical Scincec Kochi
- (2) Jadavpur University, Kolkata

Grants and awards

1. **Best Paper Award; Association of Medical Phsycist of India Annual International Conference, Thiruvananthapuram, Kerala**
Awarded November 2015
2. **Honorable mention in ARO 2019 Article of the Year winners: Strip alopecia in high-dose VMAT-based stereotactic radiosurgery** *Munshi A , Sarkar B et al – Applied radiation Oncology 2019.*
3. Apollo Hospitals Education and Research foundation and Apollo Hospitals group : Academic Achievement award- 2020 : 2 Articles
4. Apollo Hospitals Education and Research foundation and Apollo Hospitals group : Academic Achievement award- 2021 : 12 Articles
5. Apollo Hospitals Education and Research foundation and Apollo Hospitals group : Academic Achievement award- 2022 : 14 Articles
6. PRECISION RADIATION ONCOLOGY- “Compatibility assessment of Varian and Elekta robotic couch-assisted six-dimensional patient positioning correction systems with external independent imaging modalities” Top Downloaded article during its first 12 months of publication 1 January 2021 – 31 December 2021.

7. Varian Medical System Research Grant (2021) under Professional Service Agreement with Apollo Multispeciality Hospitals.: Published as Sarkar B, et al Comparative dosimetric analysis of volumetric modulated arc therapy based craniospinal irradiation plans between Halcyon ring gantry and TrueBeam C-arm linear accelerator. *Scientific Reports*. 2023 Mar 1;13(1):3430.
8. Varian project Grant (2023) : Daily imaging and its efficacy.

Symposium and conference attended: 90

Invited talks-30

Peer Reviewed Publication-69

Abstract And proceedings-89

Reviewer of Journals:

1. Scientific Report
2. Medical Physics
3. Physica Medica: European Journal of Medical Physics
4. Journal of Applied Clinical Medical Physics (JACMP)
5. Journal of Medical Physics. (J Med Phys).
6. Journal of Cancer Research and Therapeutics
7. Journal For clinical Neuroscience



Professional Body / Organisation Membership

Association of Medical Physicists of India	2004
Indian Brachytherapy Society	2009
American Association of Physicist in Medicine Membership (ID 51319)	2008
Ph.D Guide , GLA University, Mathura, UP, India	2017

Patent-1: PATENT: A CYLINDRICAL WATER PHANTOM FOR MACHINE AND PATIENT SPECIFIC DOSE MEASUREMENT.

A PRADHAN, B SARKAR

Patent-2: PATENT: A CYLINDRICAL WATER PHANTOM FOR MACHINE AND PATIENT SPECIFIC DOSE MEASUREMENT.

A PRADHAN, B SARKAR

Ph.D Thesis

A Study On Implementation Of New Improved Methodologies In Modern Radiotherapy For Better Clinical Practice.

November 2017 DOI: [10.13140/RG.2.2.21248.12808](https://doi.org/10.13140/RG.2.2.21248.12808)

Advisor: Dr. Anirudh Pradhan