

Dr Soumendranath Ray

Senior Consultant and HOD

Department Nuclear Medicine

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Academic Qualifications:

MBBS: North Bengal Medical College (North Bengal University) 1987

DRM: (Diploma in Radiation Medicine, Bombay University) 1991

DNB: Nuclear Medicine (Diplomate of National Board of India, Radiation

Medicine Center, Tata Memorial Hospital, Bombay) 1994

Certificate of Appreciation from International Atomic Energy Agency (IAEA)- for conducting Post Graduate teaching.

Current Position:

Senior Consultant & Head Nuclear Medicine, Tata Medical Centre, Kolkata -700160, India

Experience:

01.08.2008 to 17.06.2010 - Chief Consultant in Nuclear Medicine - Kokilaben Dhirubhai Ambani Hospital,

Four Bungalows, Andheri West, Mumbai -400053, India for 2 years

Since October 1996 to June 2008 – Chief Consultant in Nuclear Medicine, EKO X –Ray & Imaging Institute Kolkata for 11 years.

15.07.93 to 14.08.96 - Chief Consultant in Nuclear Medicine in Bombay Hospital, Mumbai –400020. for 3 years

14.07.92 to 14.07.93 - Scientific Officer in Radiation Medicine Center, Tata Memorial Hospital, Mumbai 400 012 for 1 year

08.08.91 to 13.07.92- Resident Medical Officer in Radiation Medicine Center, Tata Memorial Hospital, Mumbai 400 012 for 1 year

01.11.89 to 13.06.90 - Medical Officer in Coochbehar Cancer Centre, Coochbehar, West Bengal

11.04.89 to 10.10.89 - Resident in Department of Radiology in Central Hospital, N.F. Railway, Guwahati –781001

11.04.88 to 10.04.89 - Resident in Department of General Medicine in Central Hospital, N.F. Railway, Guwahati 781001 for 1 year

Experience abroad:

Participated in Workshop on application of Artificial Intelligence in Medicine in 2019 at Maastricht, Netherlands.

Participated in Workshop on application of Artificial Intelligence in Medicine in 2017 at Ben Gurion University, Israel.

Clinical Observer in PET-CT department, Vanderbilt University, Nashville, USA 2008.

Clinical Observer in Nuclear Medicine Department, Royal Liverpool University Trust Hospital, Liverpool, UK, 2007.

Clinical Fellow in Institute of Radiosynoviothrosis and Thyroidology in Cologne, Germany 2002 (Received practical training in procedure for Radiosynoviothrosis in big and small joints and also in Musculoskeletal Ultrasonography).

Clinical Fellow in the Department of Nuclear Medicine, Medical College of Wisconsin, Milwaukee, U.S.A (Participated in all Clinical and research activities with

special emphasis on Nuclear Cardiology, Bone SPECT, Brain SPECT and other computerassisted examinations)1995.

Participated in the CME Programme of SPECT Brain Imaging in March 1995 at Freodert Hospital, Milwaukee, U.S.A.1994.

Teaching Experience:

Undergraduate and Post Graduate teaching of medical students of National Board of India and Calcutta University since 2000.

Clinical tutor for the post graduate students in Radiation Medicine Centre and Medical Research Centre of Bombay Hospital, both of which are affiliated to Bombay University from 1993 to 1996.

Faculty, School of Medical science and Technology, IIT, Kharagpur since 2011

DNB and MSc Nuclear Medicine teacher.

G) Skills:

General Nuclear Medicine, PET/CT, SPECT/CT and Radionuclide Therapy SENTINEL NODE IMAGING, RADIOGUIDED SURGERY, RADIATION SYNOVECTOMY AND RADIOEMBOLIZATION.

RADIOISOTOPE THERAPY:

Have 28 years of experience in the management of thyroid cancer.

Have practical experience in the complete spectrum of radioisotope therapy including I-131 MIBG AND Lu-177 Octreotide therapy (PRRT) for neuroendocrine tumours, PSMA therapy for Prostate Cancer AND Radio-embolization.

H) Honors/Awards:

Certificate of Appreciation from International Atomic Energy Agency (IAEA)

Adjunct Faculty, School of Medical Science and Technology, IIT, Kharagpur.

Former Member of the Editorial Board, Indian Journal of Nuclear Medicine.

Former Reviewer, communications in Nuclear Medicine and Biology and Journal of Cancer Imaging.

Was a member of the joint Indian delegation to Ben Gurion University Israel for a workshop on Application of artificial intelligence in image processing.

Academics and Research

PUBLICATIONS

Recent Publications :

1. Predicting the radiotherapeutic treatment response of non-small cell lung cancer

Soumyajit Das^a, Rohit Sasidharan^b, Sudipta Ghosh^a, Sanjoy Chatterjee^b, Soumendranath Ray^b, Moses Arun singh^b, Tapesh Bhattacharyya^b

Computer Methods and Programs in Biomedicine Update: Volume 2, 2022, 100065

2. Design and Development of a Medical Image Databank for Assisting Studies in Radiomics

February 2022

Journal of Digital Imaging volume 35, pages 408–423 (2022)

Surajit Kundu, Santam Chakraborty, Jayanta Mukhopadhyay, Soumendranath Ray et al

3. Can the CROSS protocol be safely implemented in real world scenario with broader eligibility criteria? Experience from a tertiary care centre in India

Tapesh Bhattacharyya¹, Moses Arunsingh¹, Santam Chakraborty¹, Vishnu Harilal¹, Rohit Sasidharan¹, Saheli Saha¹, Robin Thambudurai², Bipradas Roy², Sudeep Banerjee², Paromita Roy³, Soumendranath Ray⁴ and Indranil Mallick¹

September 2021 [ecancermedicalscience 10.3332/ecancer.2021.1291](https://ecancermedicalscience.org/10.3332/ecancer.2021.1291)

4. Original Paper

Published: 09 July 2021

Research Goal-Driven Data Model and Harmonization for De-Identifying Patient Data in Radiomics

Surajit Kundu, Santam Chakraborty MD, Jayanta Mukhopadhyay, Syamantak Das, Sanjoy Chatterjee FRCP,

Rimpa Basu Achari MD, Indranil Mallick MD, Partha Pratim Das,

Moses Arunsingh MD, FRCP, Tapesh Bhattacharyya MD &

Soumendranath Ray MD

Journal of Digital Imaging volume 34, pages 986–1004 (2021) Cite this article

5. ORIGINAL ARTICLE

IJNM

Year : 2021 | Volume : 36 | Issue : 2 | Page : 107-

Prognostic value of metabolic tumor parameters in pretreatment ^{18}F -fluorodeoxyglucose positron emission tomography-computed tomography scan in advanced non-small cell lung cancer

Ayan Mallick¹, Jayanta Das¹, Manoj Kumar Shaw¹, Bivas Biswas², Soumendranath Ray¹

¹ Departments of Nuclear Medicine and PET-CT, Tata Medical Center, Kolkata, West Bengal, India

² Departments of Medical Oncology, Tata Medical Center, Kolkata, West Bengal, India

6. Aberrant origin of right vertebral artery from the arch of aorta

Jayanta Das, Tapes Bhattacharyya, Sayantani Sinha & Soumendranath Ray

Indian Journal of Thoracic and Cardiovascular Surgery, volume 37, pages 357–359 (2021)

7. ^{18}F -Fluorodeoxyglucose Positron Emission Tomography/Computed Tomography Finding in a Rare Case of Follicular Carcinoma of Thyroid with Rhabdoid Morphology

January 2021, Indian Journal of Nuclear Medicine 36(1):56

[10.4103/ijnm.IJNM_151_20](https://doi.org/10.4103/ijnm.IJNM_151_20)

Jayanta Das, Joydeep Ghosh, Mohammed Abdul Lateef Zameer, Soumendranath Ray

8. Hypofractionated Radiotherapy with SIB in Advanced Incurable Breast Cancer -HYPORT B study (NCT03669497)

November 2020 [10.13140/RG.2.2.36479.64160](https://doi.org/10.13140/RG.2.2.36479.64160)

Conference: ESTRO 2020 CONFERENCE PAPER

- Ritesh Santosham
- Sanjoy Chatterjee
- Santam Chakraborty
- Soumendranath Ray
- Rosina Ahmed

9. Transactional Processing Systems

Published: 11 August 2020

A Corrigendum on “De-Identification of Radiomics Data Retaining Longitudinal Temporal Information”

Surajit Kundu, Santam Chakraborty, Sanjoy Chatterjee,

Syamantak Das, Rimpa Basu Achari, Jayanta Mukhopadhyay, Partha Pratim Das, Indranil Mallick, Moses Arunsingh, TapeshBhattacharyya & Soumendranath Ray

Journal of Medical Systems volume 44, Article number: 166 (2020)

Transactional Processing Systems

Published: 02 April 2020

10.. Nanoparticulate formulations of radiopharmaceuticals: Strategy to improve targeting and biodistribution propertiesMarch 2020 Journal of Labelled Compounds and Radiopharmaceuticals 63(1)DOI: [10.1002/jlcr.3839](https://doi.org/10.1002/jlcr.3839) Pallab Datta,Soumendranath Ray

11. Early Response Assessment in Lung Cancer Patients using Spatio-temporal CBCT Images

March 2020CC BY-NC-SA 4.0

Bijju Kranthi VeduruparthiJayanta MukherjeeParthapratim DasMandira Saha , Sanjoy Chatterjee, Rajkumar Shrimali , Soumendranath Ray, Sriram Prasath

12. Novel Radiomic Feature for Survival Prediction of Lung Cancer Patients using Low-Dose

CBCT ImagesMarch 2020 ,License CC BY-NC-SA 4.0 Bijju Kranthi Veduruparthi Jayanta Mukherjee Parthapratim Das, Soumendranath Ray, Sanjay Chatterjee

13.. A Rare Case of Metastatic Super Scan from Signet Ring Cell Adenocarcinoma of Stomach

January 2020

Joydeep Ghosh, Jayanta Das,Soumendranath RayMohammed Abdul Lateef Zameer

IJMCI 5 (1): 114-117

14. Prostate-specific Membrane Antigen-expressing Hepatic Lesion: Metastatic or Hepatocellular Carcinoma

January 2020

Indian Journal of Nuclear Medicine 35(1):58

DOI: [10.4103/ijnm.IJNM_145_19](https://doi.org/10.4103/ijnm.IJNM_145_19)

Jayanta Das,Soumendranath Ray Rohit Tapadia Indranil Mallick

15. Unusual loco-regional presentation in papillary carcinoma of thyroid: A case series

October 2019

Indian Journal of Cancer 56(4)DOI [10.4103/ijc.IJC_368_18](https://doi.org/10.4103/ijc.IJC_368_18)

Prateek V Jain ,Rajeev Sharan Kapila ManikantanPattatheyil Arun Gautam Biswas ,
Soumendranath Ray

16. Axillary Lymph Node Metastasis in Gallbladder Carcinoma with Incidentally Detected
Coexistence of Aberrant Right Subclavian Artery with Left-Sided Superior Vena Cava

July 2019

Indian Journal of Nuclear Medicine 34(3):244

DOI: [10.4103/ijnm.IJNM_62_19](https://doi.org/10.4103/ijnm.IJNM_62_19)

Jayanta Das Soumendranath Ray,MohammadSaifur Rahman,Joydeep Ghosh

17. IJMPO-2022-158-6-17/R1 - (858) - Imaging recommendations for diagnosis, staging, and
management of gastric carcinoma.

Authors: Argha Chatterjee (Corresponding Author), Diva Shah (Co-author), Bipradas Roy (Co-
author), Joydeep Ghosh (Co-author), Soumendranath Ray (Co-author), Anurima Patra (Co-
author), Anisha Gehani (Co-author), Bharat Gupta (Co-author), Priya Ghosh (Co-author), Sumit
Mukhopadhyay (Co-author), Aditi Chandra (Co-author), Dayananda Lingegowda (Co-
author),Saugata Sen (Co-author)

18.. 18F-fluorodeoxyglucose PET-CT-guided pelvic chemoradiationtherapy using helical
tomotherapy for locally advancedcarcinoma cervix without para-aortic nodal disease: Clinical
andpatient-reported outcomes from a prospective phase 2 study

Rimpa Basu Achari,1 Santam Chakraborty,1 Soumendranath Ray,2 Anurupa Mahata,1 Samar
Mandal,1

Jayanta Das,2 Kanishka Sarkar,1 Indranil Mallick,1 Jaydip Bhaumik,3 Basumita Chakraborti,3
Anik Ghosh,3 Saugata Sen,4 Aditi Chandra,4 Sanjoy Chatterjee,1 Moses Arunsingh1 and
Tapes Bhattacharyya1

19. Alleviating morbidity from locally advanced breast cancer using a

practical and short radiotherapy regime: Results of the HYPOR
T palliative studies

Sanjoy Chatterjee FRCR , Santam Chakraborty MD ,

Ritesh Santosham MD , Animesh Saha FRCR ,
Indranil Mallick MD , Moses Arunsingh FRCR ,
Tapesh Bhattacharya MD , Rimpa Achari MD , Sanjit Agrawal MS ,
Rosina Ahmed FRCS , Jayanta Das MD , Anurupa Mahata Msc ,
Samar Mandal Msc , Soumendranath Ray MD
PII: S0360-3016(23)00154-2
DOI: <https://doi.org/10.1016/j.ijrobp.2023.02.008>

20. Role of 18F-FDG PET/CT for predicting bone marrow involvement,
disease relapse and histopathological transformation in follicular
lymphoma—a single centre observation
Sayan Das¹ · Raju Gupta² · Jayanta Das² · Soumendranath Ray²

Journal of Radioanalytical and Nuclear Chemistry
<https://doi.org/10.1007/s10967-024-09359-z>

21. Detection of Axillary Lymph Node Involvement in Early-Stage Breast Cancer: Comparison between Staging 18F-2-Fluoro-2-Deoxy-D-Glucose Positron Emission Tomography–Computed Tomography Scans, Mammography, and Sentinel Lymph Node Biopsy Authors:

Gupta Raju⁽¹⁾, Das Jayanta⁽¹⁾, Sinha Sayantani⁽¹⁾, Agarwal Sanjeet⁽²⁾, Sharma Abhishek⁽²⁾, Ahmed Rosina⁽²⁾, Chanda Aditi⁽³⁾, Arun Indu⁽⁴⁾, Ray Soumendranath Indian J Nucl Med 2023;38:249-54.

Meetings attended/Invited lectures :

- SNMICON 2022 –Annual conference of the society of the Nucl Medicine India -8th to 11th Dec , AIIMS , New Delhi .
Faculty Lecture –Unusual locoregional presentation of Differentiated Thyroid Cancer
- Association of Nuclear Medicine Physicians of India (ANMPI)
Expert faculty for **ANMPICON 2022** , the annual National Conference at Vadodara INDIA, on 23rd, 24th & 25th Sept 2022.
- Chair Person Nuclear Cardiology.
Association Of Nuclear Medicine India .National Conference
Pune , 20th to 22nd Sept ,2019
- Artificial intelligence and Radiomics in Oncoimaging , Maastricht , Netherlands -
November 2022

- Invited talk –Bangladesh Army Hospital , Dhaka --- 31st Dec 2019
- PSMA PET in Prostate----Assam Urological Society---1.1.20-Guwahati
- Heads up—Seminar on H&N Neck and computational pathology, TMC , 16th TO 19th January 2020
- 27TH DEC- Mohanananda Cancer Hospital, Durgapur I would like to invite you as a faculty for the CME to be held on 27/12/22 in Durgapur.
Topic: **Role of PET CT in cancer diagnosis and follow up- what does evidence say.**

- **Hybrid PET Imaging Course** at the Department of Nuclear Medicine at the University Hospital of Zurich, Switzerland for the duration of:
July 3, 2023 – July 7, 2023

AS FACULTY DURING
ST 21 ANNUAL CONFERENCE OF ASSOCIATION OF NUCLEAR MEDICINE
PHYSICIANS OF INDIA
FAPI PET imaging
ANMPICON – 2023 29 SEPTEMBER - 1 OCTOBER 2023 AT, FARIDABAD

- SNMICON 2023 Jodhpur – Panelist in Ca thyroid Session
- Faculty EBM ,TMH Mumbai ,2024
- SNMICON(EC)-PATNA – Follow-up Onco-imaging
- SNMICON 2024
Thyroid Papers –judge in the free paper session.
December 5 to 8, 2024 at Le Meridien Hotel, Coimbatore,India

- 1st -2nd March –NEOS THERANOSTICS. JORHAT
Invited talk Theranostics
- 12th April –Keynote Speaker .
IIT ,KGP research scholars day