PROF. (DR.) RAJIB DE

Consultant & Clinical Lead – Clinical Haematology, Haemato-Oncology & Bone Marrow Transplant (BMT)

Qualification

MBBS | MD | DM (Clinical Haematology) | Specialist Residency in BMT (Tata Memorial Hospital, Mumbai) | Training in CAR-T Cell Therapy (Tata Memorial Hospital, Mumbai)

Overview

Dr. Rajib De is an esteemed consultant and Clinical Lead of the Department of Clinical Haematology , Haemato-oncology & BMT at Manipal Hospitals EM Bypass. With a distinguished academic background of MBBS from Medical College, Kolkata, MD (Pathology) from IPGMER-SSKM Hospital and DM (Clinical Haematology) from Institute of Haematology & Transfusion Medicine(IHTM)- Medical College Kolkata, followed by Specialist Residency in Bone Marrow Transplantation (2012) and Observership in CAR-T Cell Therapy (2025), both from Tata Memorial Hospital, Mumbai, Dr. Rajib De’s medical journey is honed by academic and clinical excellence. In his career of over 15 years, Dr. Rajib De has garnered extensive, hands-on experience from his dedicated service across notable healthcare establishments in India. He was the first to perform autologous stem cell transplantation in a case of Multiple Myeloma in Medical College Calcutta in August 2009, and also the first to perform allogenic stem cell transplant for acute leukemia under Government of West Bengal in

the Department of Haematology, NRS Medical College in October 2012. He established the BMT unit at Narayana Superspeciality Hospital, Howrah and performed 84 bone marrow transplants there. Altogether he has performed more than 200 BMTs including Autologous, Allogenic and Haploidentical transplants for all possible indications like Myeloma, Lymphoma, Leukemia, Thalassaemia, Aplastic Anaemia and others. He is also a clinical scientist and is the Nodal officer of Multidisciplinary Research Unit(MRU) at NRS Medical college under Department of Health Research(DHR), Govt of India. His areas of research interest are Thalassaemia, Acute lymphoblastic leukemia, Bone marrow transplants and CAR-T cell therapy. He has many research projects under funding agencies like DST and ICMR. He is also associated with many multicentric and multinational clinical trials. As a passionate researcher he has contributed immensely towards haematology and bone marrow transplant through numerous complete and on-going research studies. He is also a teacher of DM(Clinical Haematology) students as a Professor in the Department of Haematology at NRS medical college. A pioneer in the field of haemato-oncology and BMT, Dr. Rajib De remains devoted towards training professionals of the future while offering a compassionate, comprehensive treatment approach to patients. He joined as a Clinical Lead in the Department of Clinical Haematology, Haemato-oncology & BMT of Manipal Hospital, EM Bypass with a team consisting of both adult and paediatric haemato-oncology consultants, trained doctors and nursing team.

Fellowship & Membership

- Fellow of Indian College of Haematology
- Nodal officer: EIBMCT (Eastern India Blood Marrow & Cellular Therapy) EHG
- Executive Committee member of ISHBT(Indian Society of Haematology & Blood Transfusion)
- Assistant Sectretary of Bengal Society of Haematology

Field of Expertise

- Anaemia
- Aplastic Anaemia & Bone Marrow Failure
- Thalassaemia & Sickle Cell Disease
- Blood Cancers (Leukemia, Lymphoma, Multiple Myeloma, MDS, MPN)
- ITP & Bleeding Disorders
- Thrombotic Disorders
- Bone Marrow Transplant
- CAR-T Cell Therapy
- Training on Bone Marrow Transplantation from All India Institute of Medical sciences (AIIMS),New Delhi from 15/02/10 to 14/04/10
- Training on Bone Marrow transplantation from Tata Memorial Hospital, Mumbai as Specialist Resident in Bone Marrow Transplant Unit, Tata Memorial Hospital, Mumbai from August 2011 – August 2012 (Performed 65 bone marrow transplant including autologous, allogenic and matched unrelated donor (MUD) transplant).
- First to do autologous stem cell transplantation in a case of Multiple Myeloma in Medical College Calcutta in August 2009.
- First to do allogenic stem cell transplant for acute leukemia under Government of West Bengal in the Department of Haematology, NRS Medical College in October 2012.
- Involved in more than 200 bone marrow transplants in patients of Aplastic anemia, Leukemia, Lymphoma, Multiple myeloma and Thalassaemia.
- Established Bone Marrow Transplant unit at Narayana Superspeciality Hospital and started BMT activities in 2017.
- Worked as a Clinical Lead- BMT Programme at Narayana Superspeciality Hospital, Howrah. Performed 84 BMTs till date

at Narayana Superspeciality Hospital including Autologous, Allogenic (Matched Related) and Haploidentical transplants.
- Trained in CAR-T cell Therapy from TMH, Mumbai

Languages Spoken

- English
- Hindi
- Bengali

Awards & Achievements

- Author of chapters in different Haematological books like- Haematology Today, Management of Acute Leukemia, Myeloproliferative Neoplasms, National guideline on Thalassaemia.
- Sufi, Omar & Chaudhuri, Rupak & De, Rajib & Dasgupta, Anjan. (2012). Ferritin biosensor and methods of using the same. March 2012 (Patent: US 20120052014 A1)
- Optimization of Available Infrastructure and Resources for the Management of Childhood Acute Lymphoblastic Leukaemia Treated with FISH & Minimal Residual Disease based Dynamic Risk Stratified ICiCLe Protocol PI ICMR Ongoing
- Accessing Childhood Cancer Services in INDIA PI Cankids Completed.
- Study of tyrosine kinase inhibitors on platelet function – refining management of hematological malignancies by predicting hemostatic complications PI WB-DST Ongoing.
- RBC Phosphatidylserine exposure of Hb-E-Beta Thalassemia patients on HbF inducers .PI Intramural (NRSMCH) Ongoing

Talks & Publications

- Chakraborty, B., & De, R. (2026). Gut microbiome as a predictive biomarker for febrile neutropenia in pediatric acute lymphoblastic leukemia: A clinical integrative framework. Indian Journal of Medical and Paediatric Oncology. https://doi.org/10.1055/s-0045-1814748 (online first).
- Chakraborty, B., Sarkar, S., & De, R. (2026). Gut microbiome alterations in aplastic anemia: Mechanistic insights, immune-hematopoietic crosstalk and therapeutic potential. Journal of Advance and Future Research, 4(1), 872. https://doi.org/10.56975/jaafr.v4i1.502502.
- Chakraborty, B., Jha, P. K., Sarkar, S., Roy, S., & De, R. (2025, October 22). Abstract C075: Study of L-asparaginase per-day decline and its association with measurable residual disease (MRD) in pediatric acute lymphoblastic leukemia (ALL). Molecular Cancer Therapeutics, 24(10 Supplement), C075. https://doi.org/10.1158/1535-7163.TARG-25-C075.
- Basu, S., Gupta, S., Baul, S. N., De, R., Sen, A., Dasgupta, S., & Biswas, A. (2025). Detection of common deletion mutations (–α3.7 and –α4.2 kb) in HBA gene and genotype-phenotype correlation. Archives of Clinical and Biomedical Research, 9(2), 122–126. https://doi.org/10.33945/SAMI/ACBR.2025.2.4.
- Vinodhini, M., De, R., Mandal, P. K., Dutta, S., & Dolai, T. K. (2025). Genotypic and hematologic association of pulmonary hypertension in non-transfusion-dependent thalassemia. Journal of Hematology and Allied Sciences, 5(2), 137–142. https://doi.org/10.25259/JHAS_11_2025
- Chakraborty, B., Sarkar, S., & De, R. (2025). Letter to editor: Re: “Prevalence of HIV, hepatitis B and hepatitis C infections among patients with thalassemia attending a tertiary care (rural) hospital.” Journal of Family Medicine and Primary Care, 14(6), 2600–2601. https://doi.org/10.4103/jfmpc.jfmpc_327_25.

- Sanyal, C., De, R., Saha, S., Jena, R. K., Dolai, T. K., Mukherjee, A., & Biswas, A. (2024, November). Role of phenotype-matched RBC in reducing transfusion requirement in thalassemia patients. Blood, 144(Supplement 1), 5611. https://doi.org/10.1182/blood-2024-526468.
- Chakraborty, B., & De, R. (2024). Letter to Editor on “Impact of smart phone use on adolescence health in India.” Bioinformation, 20(1), 36–38. https://doi.org/10.6026/973206300200036.
- Sarkar, S., Thapa, R., Naushin, F., Gupta, S., Bhar, B., De, R., & Bhattacharya, J. (2022). Antibiotic-Loaded Smart Platelet: A Highly Effective Invisible Mode of Killing Both Antibiotic-Sensitive and -Resistant Bacteria. ACS Omega, 7(28), 24102–24110. https://doi.org/10.1021/acsomega.1c07249.
- De, R., Jena, R. K., Vidhatri, R., Dolai, T. K., & Baul, S. N. (2022). Differential erythrocyte phosphatidylserine exposure is associated with variations in clinical and haemostatic parameters: A study involving E β and β thalassemia compared to normal population. Blood, 140(Supplement 1), 5367–5368. https://doi.org/10.1182/blood 2022 171172.
- Baul, S. N., Baveja, A., Mandal, P. K., De, R., Dutta, S., & Dolai, T. K. (2022). A glimpse into translocation (8;21) in acute myeloid leukemia: Profile and therapeutic outcomes from a tertiary care hematology center from East India. Journal of Hematology and Allied Sciences, 2, 85–90. https://doi.org/10.25259/JHAS_1_2022.
- Sen, A., Sahana, P. K., Chakrabarti, P., Ghosh, P., Dolai, T. K., & De, R. (2022). Abnormal glucose homeostasis in patients of HbEβ-Thalassemia: Prevalence and possible pathogenesis using the Oxford HOMA model. Journal of Hematology and Allied Sciences, 2, 46–54. https://doi.org/10.25259/JHAS_13_2022.
- Dolai, T. K., De, R., Sen, A., Baul, S. N., Mitra, S., Bhattacharya, S., Mondal, I., Mukhopadhyay, K., Chattopadhyay, A., Dutta, S.,

& Mandal, P. (2022). Pattern of autologous stem cell transplants at a tertiary care government hospital, with emphasis on transplant outcomes with pre-harvest CD34+ level. Blood Cell Therapy, 5(1). https://doi.org/10.31547/bct-2021-010.

- Jitani, A. K., Dutta, S., Mandal, P. K., De, R., Jajodia, E., Baul, S., Chakrabarti, P., & Dolai, T. K. (2021). Utility of 18F-fluorodeoxyglucose PET-CT scan in detecting bone marrow involvement in lymphoma. Indian Journal of Medical Research, 154(5), 691–698. https://doi.org/10.4103/ijmr.IJMR_1420_19.
- Dutta, B., Dolai, T. K., Mandal, P. K., Baul, S., De, R., Senthil, K., & Chakrabarti, P. (2021). Response to immunosuppressive therapy in acquired aplastic anaemia: Experience of a tertiary care centre from Eastern India. Indian Journal of Hematology and Blood Transfusion, 37(2), 197–203. https://doi.org/10.1007/s12288-019-01158-x.
- Sen, A., Chakrabarti, P., Baul, S., Talukder, A., Mandal, P., De, R., Dutta, S., & Dolai, T. (2021). Challenges in care of children with acute leukemia in a government hospital in India: A retrospective analysis. Indian Journal of Medical and Paediatric Oncology, 42, 161–167. https://doi.org/10.1055/s-0041-1731972.