

Name of Elective	Childhood Leukemia: From Diagnosis to Survivorship
Location of hospital Lab or research facility	Pediatric Oncology Unit, Pediatric ward Second Floor DMCH
Name of internal preceptor(s)	Dr Gurpreet Singh
Name of external preceptor (if applicable)	-
Learning objectives of elective	1. Understanding Leukemia – Types (ALL, AML), epidemiology, and genetic basis. 2. Clinical Presentation – How children with leukemia present (pallor, fever, bleeding, bone pain, hepatosplenomegaly). 3. Diagnosis & Investigations – CBC findings, peripheral smear, bone marrow examination, flow cytometry, cytogenetics. 4. Treatment Modalities – Chemotherapy, targeted therapy, bone marrow transplantation, supportive care. 5. Complications & Management – Infections, tumor lysis syndrome, long-term toxicities. 6. Survivorship & Quality of Life – Late effects, rehabilitation, and psycho-social aspects of care.
Number of students that can be accommodated in this elective	2
Prerequisites for elective	Good clinical practice Universal precautions Mandatory immunization
Learning resources for students	National Guidelines for Hematopoietic Stem Cell Transplantation 2021. Indian Council for Medical Research. The EBMT Handbook on Hematopoietic stem cell transplantation and Cellular Therapies. 2024.
List of activities of student participation	1. Work daily with supervisor in observing and assisting workup of patients of pediatric oncology and thalassemia 2. To document atleast 2 patients of pediatric oncology on the proforma and plan management for these patients. 3. Observe complications arising out chemotherapy
Portfolio entries required	Documentation of proforma of worked up cases
Log book entry required	Completion of posting signed by preceptor with a “meets expectation ‘(M)’ grade”
Assessment	Attendance; day-to-day participation in departmental activity; performance of assigned tasks
Other comments	

Logbook – *cum* – Portfolio

Childhood Leukemia – From Diagnosis to Survivorship

Childhood Leukemia

Leukemia is the most common childhood malignancy, accounting for nearly **30% of all pediatric cancers**. Among its various subtypes, **acute lymphoblastic leukemia (ALL) is the most prevalent**, followed by **acute myeloid leukemia (AML)**. The prognosis of childhood leukemia has dramatically improved over the past few decades, with survival rates exceeding **85% in ALL** due to advancements in diagnostics, risk stratification, and targeted therapies. However, despite these successes, leukemia remains a **life-threatening illness** that requires early detection, precise diagnosis, and comprehensive long-term management.

this elective posting will not only familiarize students with **diagnostic and treatment protocols** but also **expose them to real-life patient interactions**. Understanding the journey from diagnosis to survivorship will help shape their **clinical decision-making skills and patient-centered approach** in managing pediatric malignancies.

By the end of this elective, students will be able to **identify and evaluate a child suspected of leukemia, understand laboratory interpretations, discuss treatment options, and recognize potential long-term effects**, making them better prepared for clinical practice and future specialization in pediatrics or oncology.

Logbook – *cum* – Portfolio

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