



**Department of Medical Education
Himalayan Institute of Medical Sciences
Swami Rama Himalayan University
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HIMS/DME/2024/139

Date: 11.07.2024

Clinical Grand Round

Date : 13.07.2024
Day : Saturday

Time : 03:30 PM – 04:30 PM
Venue: Adi Kailash
(Former name New Auditorium above HLTs)

Topic: "Clinical Grand Rounds: Pathological Neonatal Jaundice."

Abstract:

Jaundice is a near ubiquitous condition in neonates with 60% of term babies and 80% preterm babies afflicted. It is the most common neonatal clinical condition requiring evaluation and treatment, and a frequent reason for hospital readmission during the first week of life. Although usually a benign, postnatal, transitional phenomenon, some neonates develop marked and potentially hazardous bilirubin levels that can cause serious brain injury. Acute bilirubin encephalopathy may ensue and evolve into kernicterus (chronic bilirubin encephalopathy), a permanently disabling neurologic condition. Among the myriad causes of significant hyperbilirubinemia among term neonates, transplacental transfer of maternal antibodies directed against fetal RBC antigens, especially Rh antigens, is a common one. The spectrum of clinical problems ranges from minimal anaemia and hyperbilirubinemia to severe anaemia with hydrops fetalis. Increased awareness, stringent antenatal screening and widespread availability anti-Rh(D) immunoglobulin for routine postpartum prophylaxis in Rh(D)-negative women has led to decreased incidence in developed nations. Nevertheless, Rh incompatibility still imposes a significant morbidity burden in India.

The current case discusses the clinical presentation, management and follow-up of a neonate with hyperbilirubinemia attributable to Rh(D) alloimmunisation. The baby underwent double volume exchange transfusion and was followed up for neurological and auditory sequelae of bilirubin encephalopathy. The case highlights the still significant burden imposed by Rh(D) isoimmunisation on neonatal outcomes and need for continued strive to understand, screen, prevent and treat this condition.

Programme for Clinical Grand Round:

Introduction	Dr. Shoham Majumder Assistant Professor, Neonatology	5 minutes
Clinical Course	Dr. Arshpuneet Kaur Sandhu Senior Resident, Neonatology	10 minutes
Blood Investigations	Dr. Anisha Junior Resident, Pathology	7 minutes
Exchange Transfusion	Dr. Priyank Vashisht Junior Resident, Immunohematology and Blood Transfusion	8 minutes
High Risk Follow-up	Dr. Ravleen Kaur Senior Resident, Neonatology	10 minutes
Conundrums in Neonatal Jaundice	Dr. Shoham Majumder Assistant Professor, Neonatology	10 minutes
Discussion and Q&A	Dr. Saikat Patra Associate Professor & Incharge, Neonatology Dr. Chinmay Chetan Assistant Professor, Neonatology	10 minutes

All Faculty & Post Graduate Residents are required to attend the Clinical Grand Round.

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**Coordinator
D.M.E**

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