



Department of Medical Education  
Himalayan Institute of Medical Sciences  
Swami Rama Himalayan University  
Swami Ram Nagar, P.O. Jolly Grant, Dehradun- 248016



NAAC A+

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HIMS/DME/2025/135

Date: 28.05.2025

**Clinical Grand Round**

**Date : 31.05.2025**

**Day : Saturday**

**Time: 08:30 AM – 09:30 AM**

**Venue: Adi-Kailash Auditorium**

**(Near - Emergency Building)**

**Topic: “Diagnostic challenges of shock in young polytrauma: Unmasking Critical Embolism Syndrome in ICU”**

**Abstract:**

In young patients with polytrauma, the differential diagnosis of shock can be complex and multifactorial, often involving hypovolemic, distributive, obstructive, or cardiogenic components. Timely and accurate diagnosis is crucial in guiding appropriate management and improving outcomes. This case-based discussion highlights the diagnostic challenges encountered in the intensive care unit (ICU) when a young polytrauma patient presents with persistent shock unresponsive to conventional therapy. Initial management focused on IV fluids, vasopressors resuscitation and hemorrhage control, yet the patient exhibited unexplained hemodynamic instability. Advanced imaging and bedside echocardiography eventually revealed features consistent with Critical Embolism Syndrome, characterized by concurrent pulmonary embolism and fat embolism secondary to long bone fractures with mild to moderate head injury. The case underscores the importance of maintaining a high index of suspicion for embolic phenomena in trauma patients with persistent shock, and illustrates the role of multimodal diagnostics—including echocardiography, CT pulmonary angiography, NCCT or MRI Brain and laboratory markers—in unmasking this life-threatening yet under-recognized condition. Early diagnosis and intervention are pivotal in reducing morbidity and mortality in such scenarios. We are presenting a case of Polytrauma with Shock with MODS in 25-years female, who was admitted into the department of neurosurgery and presented in Emergency department (HIMS) with h/o RTA due to collision between two wheeler and four wheeler at around 8 am on 15.10.2024. C/o- Severe Pain in both legs with unable to walk along with sudden loss of consciousness during ICU transportation from ER on the same day in the evening at 6 pm.

**Programme for Clinical Grand Round:**

Presentation	Speaker	Time
Introduction	Dr. Nand Kishore, Associate Professor, Dept. of Critical Care Medicine	05 minutes
Clinical Exam	Dr. Monali, JR-2, Dept. Of Anaesthesia	10 minutes
Brief Summary	Dr. Kunwar Gandhi, (SR, Dept. of Neuro Surgery) Dr. Dhruv Gupta (Jr-2, Pulmonology) Dr. Charat Singhal (SR, Orthopedics) Dr. Kratika (JR-3, Radiology)	30 minutes
Discussion		15 minutes

Department: **Critical Care Medicine (CCM)**

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

Convenor

NMC Regional Centre

Himalayan Institute of Medical Sciences

Swami Rama Himalayan University

Jolly Grant, Dehradun

Coordinator

D.M.E

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