Name of Book	Block 2
Name of Elective	**<u>Training in Critical Care Medicine & Liver Transplant for Future Doctors</u>**
Location of hospital Lab or research facility	Dept. of Critical Care Medicine & Liver Transplant
Name of internal preceptor (s)	Dr. Parshotam Lal Gautam
Name of external preceptor (if applicable)	-
Learning objectives of elective	Training in the intersection of Critical Care Medicine (CCM) and Liver Transplantation is a high-stakes specialty. The goal is to manage patients who are often at the absolute limit of physiological stability—both before their transplant (salvage) and after (recovery) a. **Demonstrate effective communication and teamwork** during critical situations. b. **Understand role allocation and leadership strategies** . c. **Apply decision-making frameworks** to prioritize interventions and avoid cognitive errors. d. **Optimize resource utilization** in both well-equipped and resource-limited settings. e. **Perform basic emergency interventions**, including CPR, airway management, hemorrhage control, and fluid resuscitation. f. Analyze **post-crisis debriefing techniques** to improve future performance.
Number of students that can be accommodated in this elective	5
Pre-requisites for elective	i. Knowledge of Basic Understanding of Clinical Medicine, Surgery, trauma & Basic Life Support (BLS) ii. Willingness to Learn and Engage Actively
Learning resources for students	a. Books & Guidelines on crisis management b. Emergency Care Training Modules c. Case-Based Discussions
List of activities of student participation	a. **Simulation & Emergency Drills:** Hands-on practice with crisis scenarios like cardiac arrest, trauma resuscitation, and airway emergencies. b. **Team-Based Problem-Solving:** Role-playing, structured communication exercises, and leadership training in high-pressure situations. c. **Debriefing & Reflection:** Post-scenario discussions to analyze decision-making, identify errors, and improve future crisis responses.
Portfolio entries required	Case scenarios discussed.
Log book entry required	Summary of 3 case scenarios discussed
Assessment	a. Attendance b. Completion of case scenarios in the given time frame
Other comments	

Training in Critical Care Medicine & Liver Transplant for Future Doctors

The training of future doctors in the intersection of **Critical Care Medicine (CCM)** and **Liver Transplantation** is not just about learning a set of technical skills; it's about preparing them for the "perfect storm" of modern medicine. The theoretical rationale for this specialized training focuses on three main pillars: **Physiological Complexity**, **Resource Stewardship**, and **Multidisciplinary Orchestration**.

Managing such critical patients demand more than just clinical expertise—they require rapid assessment, clear communication, and coordinated teamwork to ensure optimal patient outcomes. Whether responding to cardiac arrest, trauma, or surgical complications, healthcare professionals must make swift, informed decisions under pressure. From such trainings, trainees learn the **Shared Mental Model**. They learn to bridge the gap between Transplant Surgeons (Focused on technical graft success and vascular patency), Hepatologists (Focused on long-term liver function and disease recurrence), and Critical Care **(**Focused on hour-by-hour hemodynamic stability). The Result is that raining produces **"Translational Clinicians"** who can speak the languages of surgery, internal medicine, and intensive care simultaneously.

Why This Elective Matters for MBBS Students?

- Prepares students for real-life challenges in critically ill patients and challenging surgeries like liver transplant.
- Builds confidence in handling critically ill patients before internship.
- Develops essential non-technical skills such as leadership, communication, and teamwork—critical for all medical specialties.
- Enhances decision-making abilities by applying structured frameworks to prioritize interventions and avoid cognitive errors.
- Bridges the gap between theory and practice by providing hands-on experience.