

Description of Trauma Care Facilities

The SaveLIFE Foundation has developed the minimum parameters for trauma centre operationalisation in consultation with surgeons, emergency medicine specialists and trauma centre administrators. The prescriptions adhere to IPHS standards of the Ministry of Health and Family Welfare. Under the Trauma Care audits, the medical facilities are audited as per these parameters. Broadly, a health facility can be classified from a Level-4 to a Level-1 Trauma Care centre.

Level-1

1. Provide the highest level of definitive and comprehensive care for patients with complex injuries.
2. Emergency physicians, nurses and surgeons would be in-house and available to the trauma patient immediately on their arrival.
3. The services of all major super specialties associated with trauma care would be available 24*7.
4. It should be situated essentially at a distance of less than 750 to 800 kms apart.
5. These should be tertiary care centers to which patients requiring highly specialized medical care are referred.
6. Due to high levels of skill, specialists and infrastructure required, Level I Trauma Centers should be only in medical college hospitals.

Level- 2

1. Provides definitive care for severe trauma patients.
2. Emergency physicians, surgeons, Orthopedicians and Anaesthetists are in-house and available to the trauma patients immediately on arrival.
3. It would also have an on-call facility for neurosurgeons, pediatricians. If neurosurgeons are not available, general surgeons trained in neuro surgery for a period of 6 months in eminent institutions would be made available 24*7.
4. The center should be equipped with an emergency department, intensive care unit, blood bank, rehabilitation services, broad range of comprehensive diagnostic capabilities, and supportive services.
5. The existing medical college hospitals or hospitals with bed strength of 300 to 500 should be identified as Level II Trauma Center.

Level- 3

1. Provides initial evaluation and stabilization (surgically if appropriate) to the trauma patient.
2. Comprehensive medical and surgical inpatient services would be made available to those patients who can be maintained in a stable or improving condition without specialized care.
3. Emergency doctors and nurses are available round the clock.
4. Physicians, surgeons, Orthopedic surgeons and Anaesthetist would be available round the clock to assess, resuscitate, stabilize and initiate transfer as necessary to a higher-level Trauma Care Service.
5. Such hospitals will have limited intensive care facilities, diagnostic capability, blood banks and other supportive services.
6. The district/ tehsil hospitals with a bed capacity of 100 to 200 beds would be selected for level III care.

Level-4

1. Provided by appropriately equipped and manned mobile hospitals / ambulances.
2. These shall be provided by MoRTH / NHAI / NRHM / State Govts., etc as the case may be.

Trauma Care Audit and Tracker Form: Hospitals

The detailed trauma care facility standards are listed in the tables below and may be used by the district to review and upgrade the medical infrastructure in the district.

Emergency Response Department

Hospital Name:						
Category	Details	Level 1	Level 2	Level 3	Level 4	Assessed Strength
Bed Status	Total Beds (must be with I.V. stands & Head Raising Functionality)	75	50	30	10	
	Beds in Emergency Ward	30	10	5	0	
Human Resources	Emergency Medical Officer (MBBS)	15	9	6	0	
	Physician (MBBS)	0	0	0	3	
	Staff Nurse & Nursing Attendants	60	45	30	9	
	GDA and Safai Karamcharis	75	45	15	6	
Infrastructure	No of Tables in Major OT	4	2	1	0	
	No of Minor OTs in the Emergency Ward	1	1	1	0	
	Treatment Room	1	1	1	1	
Equipment	Emergency Tray (with all equipments and drugs)	5	3	2	1	
	Crash Cart	5	3	2	1	
	Vitals Monitor	20	10	5	2	
	Pneumatic tourniquet	2	2	2	2	
	5. Splints and traction	2	2	1	1	
	6. Transport Ventilator	2	1	0	0	
	7. ABG machine	2	1	1	0	

Trauma Care Audit and Tracker Form: Hospitals

Surgery Department

Hospital Name:						
Category	Details	Level 1	Level 2	Level 3	Level 4	Assessed Strength
Human Resources	General Surgeon	12	3	1	0	
	Anaesthetist	6	3	1	0	
	Orthopaedic Surgeon	6	3	0	0	
	Plastic Surgeon	3	1	0	0	
	Neuro Surgeon	3	1	0	0	
	OT Technician	6	3	1	0	
Equipment	O.T. Ceiling Light	4	2	1	0	
	Surgical instrument	4	2	1	0	
	Power saw & drill	2	1	1	0	
	Thoracotomy set	1	1	0	0	
	Spinal Surgery Instrument Set	1	1	0	0	
	Craniotomy set	1	0	0	0	
	Faciomaxillary Instrument Set	1	0	0	0	
	O.T. Operating headlights	4	2	1	0	
	Operating Microscope	5	2	1	0	
	Orthopaedic instrument sets	2	1	0	0	
	Anesthesia Machine with Monitor	2	1	1	0	
	Central Suction Pipeline	1	1	0	0	
	High Vacuum Suction Machine	5	2	1	0	
	Cautery machine – Mono and Bi polar	2	1	1	0	
Angiography Machine	1	1	0	0		

Trauma Care Audit and Tracker Form: Hospitals

Critical Care Department

Hospital Name:						
Category	Details	Level 1	Level 2	Level 3	Level 4	Assessed Strength
Bed Status	Total ICU Beds	20	10	0	0	
	Fowler's bed	10	5	0	0	
	Step Down Recovery Beds	5	2	1	0	
Infrastructure	Patient warming system	1	1	0	0	
	Manifold System	1	1	1	0	
	Laminar air flow	1	1	0	0	
	Humidity Control Metre	1	1	0	0	
Equipment	Defibrillator with Monitor	10	5	2	1	
	Standard ventilator	20	10	2	0	
	Syringe Infusion Pump	5	3	1	0	

Radiography Department

Hospital Name:						
Category	Details	Level 1	Level 2	Level 3	Level 4	Assessed Strength
Bed Status	Total ICU Beds	20	10	0	0	
	Fowler's bed	10	5	0	0	
	Step Down Recovery Beds	5	2	1	0	
Infrastructure	Patient warming system	1	1	0	0	
	Manifold System	1	1	1	0	
	Laminar air flow	1	1	0	0	
	Humidity Control Metre	1	1	0	0	
Equipment	Defibrillator with Monitor	10	5	2	1	
	Standard ventilator	20	10	2	0	
	Syringe Infusion Pump	5	3	1	0	

Trauma Care Audit and Tracker Form: Hospitals

Lab Services

Hospital Name:						
Category	Details	Level 1	Level 2	Level 3	Level 4	Assessed Strength
Human Resources	Lab Technician	6	3	1	0	
Equipment	Blood Investigation Equipment & Reagents	1	1	0	0	
	Blood Collection Equipment	1	1	1	1	
	Lab automatic blood gas analyser	1	1	1	0	
	Microbiology facility	1	1	0	0	

Physiotherapy

Hospital Name:						
Category	Details	Level 1	Level 2	Level 3	Level 4	Assessed Strength
Equipment	Cervical Traction & Lumbar Traction	1	1	0	0	
	IFT Machine	1	1	0	0	
	SW Diathermy	1	1	0	0	
	Other Physiotherapy Equipment Set	1	1	0	0	