



King George's Medical University U.P. Lucknow

Department of Trauma Surgery

INTRODUCTION AND NEED

Emergency Surgical problems including Accidental trauma is one of the leading causes of morbidity and motility in India. Expansion in road network, motorization & urbanization in the country has increased the dimension of death, disability and hospitalization with enormous socio-economic costs.

The incidence of accidental deaths has shown a mixed trend during the decade 1997-2007 with an increase of 45.7% in the year 2007 as compared to 1997. The population growth during the corresponding period was 19.0% whereas the increase in the rate of accidental deaths during the same period was 22.5%. The total number of accidents reported by all the states/Union Territories (UTs) in the year 2007 was 4,79,216 of which 1,01,161 or 21.1% of total accidents were fatal; the number of persons killed in the road accidents were 1,14,444 (i.e. an average of one fatality per 4.2 accidents) and the number of persons injured at 5,13,340 exceeded total number of accidents (4,79,216) in 2007. In 2009 the total fatalities attributed to road traffic accidents is 1.3 lakh approximately.

ELIGIBILITY

Candidates possessing a Medical Council of India recognized MS/DNB in General Surgery, Trauma Surgery & Orthopedic .

DURATION OF THE COURSE: 1 year (12 months)

Seats: Minimum 05

TRAUMA COMPETENCIES/OBJECTIVES

Curriculum has been prepared based on different guidelines as subject specific learning objectives / competency in each domain as

- Theoretical knowledge
- Practical and clinical skills
- Synopsis writing and literature review
- Attitude and communication
- Training in Research Methodology

Cognitive

The candidate / learner should be able to

1. Describe the principles of cardiopulmonary resuscitation
2. Enumerate, classify and describe the Physiology, Patho-physiology basis of disorders of the various human systems namely (cardio vascular, musculoskeletal etc)
3. Define and describe the various aspect of respiratory and circulatory failure (Shock)
4. Understand the metabolic, nutritional and endocrine effects of Trauma and critical illness
5. Diagnose and manage acute surgical patients including trauma, in all situations including Obstetric patients, Geriatric, Pediatric and mentally disabled patients
6. Have basic understanding of Trauma systems, Trauma scores, GC scale
7. Describe hematological and coagulation disorders
8. Describe the pharmacokinetics and dynamics of drug metabolism, excretion in critical illness
9. Understanding of biostatistics and research methodology


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The first section of the paper discusses the importance of the research. It then goes on to discuss the methodology used in the study. The second section discusses the results of the study. The third section discusses the implications of the study. The fourth section discusses the conclusions of the study. The fifth section discusses the limitations of the study. The sixth section discusses the future research. The seventh section discusses the acknowledgements. The eighth section discusses the references. The ninth section discusses the appendices. The tenth section discusses the index.

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10. Demonstrate ability to organize emergency trauma & acute care services in the country including ambulance facilities
11. Understand ethical and legal aspects of surgical critical care and acute trauma care
12. Classification, diagnosis and emergency management of musculoskeletal traumas both bone and soft tissues of extremities, operative and non-operative
13. Reinforce the basic understanding of the structure and function of the human body and all other systems
14. Reinforce the pathological basics for diseases with particular focus on traumatic condition and non-traumatic acute surgical condition
15. Describe the microbiological basis of infectious diseases and its pharmacotherapeutics
16. Understand the principles and technologies of administration and management of ICU
Psychomotor / Skill domain

3.1.2 Affective domain (Attitudes including Communication and Professionalism)

- a. Communication skills
- b. **Teamwork:** Seek cooperation. Coordination and communication among treating specialties and paramedical staff
- c. **Counseling of relatives:** regarding patient's condition, seriousness, bereavement and counseling for organ donation in case of brain stem death
- d. **Leadership:** Trauma prevention, education of the public, paramedical and medical persons
- e. **Advocacy:** with the government and other agencies towards cause of trauma care

3.2 Subject Specific Practice Based or Practical Competencies / SLO

Psychomotor domain

Resuscitative procedures:

- Airway management including Endotracheal intubation and difficult airway
- Surgical airway / Cricothyroidotomy/Tracheostomy
- Venous access
- Needle thoracocentesis/Chest drain insertion/Pericardial drainage
- FAST and DPL
- Suprapubic cystostomy
- Splinting of fractures
- Application of plaster cast
- Fasciotomy

Major Operative procedures:

- Laparotomy for trauma:
- Thoracotomy for trauma
- Craniotomy for trauma: When neurosurgeon is not available
- Emergency amputation for crush limbs
- Application of external fixator

Critical Care:

- Monitoring in ICU including ICP monitoring
- Ventilatory support techniques
- Inotropic support
- Nutritional support

The first part of the book is devoted to a general introduction to the subject of the history of the United States. It begins with a discussion of the early years of the Republic, from the time of the signing of the Declaration of Independence in 1776 to the end of the War of 1812. This period is characterized by a sense of national identity and a desire for independence from British rule. The second part of the book deals with the period from 1812 to 1860, a time of rapid expansion and growth. The third part covers the years from 1860 to 1914, a period of industrialization and the rise of the United States as a world power. The fourth part discusses the years from 1914 to 1945, a time of global conflict and the emergence of the United States as a superpower. The final part of the book deals with the years from 1945 to the present, a period of social change and the challenges of the modern world.

The book is written in a clear and concise style, making it accessible to a wide range of readers. It provides a comprehensive overview of the history of the United States, from its early years to the present. The author's use of primary sources and his clear analysis of the events of the past make this a valuable resource for anyone interested in the history of the United States. The book is well organized and easy to read, with a clear focus on the major events and figures of the past. It is a must-read for anyone who wants to understand the history of the United States.

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- Massive transfusion protocols
- Renal support including dialysis
- Thromboprophylaxis
- Painmanagement

Non-trauma emergencies:

- Laparotomy for acute abdomen – obstruction, perforation, ischaemia, inflammation and non-trauma haemoperitoneum
- Surgical control of upper GI bleed including emergency surgical management of variceal bleed
- Surgical control of lower GI bleed
- Surgical management of skin and soft tissue infections
- Embolectomy for thromboembolism
- Surgical management of acute testicular torsion
- Surgical management of ovarian torsion, pelvic sepsis and ruptured ectopic gestation
- Obstetric emergencies: Caesarian section when gynecologist is not available

Theory Papers

- **Paper I:** Basic Sciences: Surgical anatomy, physiology & principles of resuscitation in trauma and non-trauma acute care surgery
- **Paper II:** Definitive care: Abdominal, pelvic, thoracic trauma, orthopedic trauma including polytrauma
- **Paper III:** Definitive care: Neurosurgery, reconstructive surgery, non-trauma acute care surgery
- **Paper IV:** Recent advances, critical care and miscellaneous
- The theory examination shall be held in advance before the clinical and practical examination, so that the answer books can be assessed and evaluated before the commencement of the clinical/practical/oral examination.

Practical including ward rounds

- **Viva Voce Examination:** For completion weight age: Formative 50%
Summative 50%


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The American Medical Association has long been recognized as the leading organization of the medical profession in this country. It has been successful in its efforts to protect the public interest in the medical profession, and to promote the highest standards of medical education and practice. Its work has been directed towards the betterment of the medical profession, and the improvement of the medical service to the people. It has been successful in its efforts to secure the recognition of the medical profession as a learned profession, and to secure the highest standards of medical education and practice. Its work has been directed towards the betterment of the medical profession, and the improvement of the medical service to the people.

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