

**Review of Thoracic Trauma at
Shree Birendra Hospital
Chhauni, Kathmandu, Nepal**

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Abstract

Nepal is going through war like situation due to insurgency since last few years and the hospital admission due to insurgency related trauma due to bullet injury and bomb blast injury has increased. This study will review the patients admitted with Thoracic Trauma during year 2002 at Shree Birendra Hospital, Chhauni. In the year 2002, 646 insurgency related trauma patients admitted in Birendra Hospital. Among 646 casualty patients 42 (6.6%) had thoracic injury with gunshot injury and bomb blast injury. Out of 42 Chest trauma patients 21 (50%) had penetrating bullet injury over the chest .17 (40%) had penetrating chest injury due to splinters from bomb blast injury, 4 (10%) had blunt chest injury. Out of 42 Chest trauma patients 19 (17%) presented with haemothorax, 5 (12%) patients had haemo pneumothorax and 6 (14%) had open pneumothorax. 12 (28%) patients presented with chest wall injury. There were 8 (19%) patient with diaphragmatic tear. Out of 42 patients 15 (35%) required thoracostomy. 15 (35%) required emergency thoracotomy and 12 (30%) required wound debridement foreign body removal. There was 1 (2.5%) death due to poly trauma

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**Shree Birendra Hospital
Trauma Centre
Thoracic (Chest) Trauma**

I. 1996 A.d.

Total No. of patients admitted in 1986 A.D. - 360

Types of injury

Limb Fracture	161
Abdomen injury	111
Head injury	52
Chest injury	26
Spine injury	3
Burn injury	7

Total No. of patients admitted with combat injuries in 2002 A.D.

Types of injury

Limb injury & Fracture	432
Head injury	81
Abdomen injury	53
Spine injury	46
Chest (Thoracic) injury	42
Facio Maxillary Injury	41
Eye injury	27

Note: due to poly trauma there were some over lapping of cases

III. Chest (Thoracic trauma 2002)

Total No. of patients admitted 42

Mechanism injury

Bullet injury	21
Bomb Blast injury	17
Blunt injury	4

IV. Types of Chest injury

Penetrating Bullet injury	21
Haemothorax	10
Haemopneumthorax	5
Open Pneumothorax	6

V. No. of Emergency operations

Thoracostomy	41
(Chest tube Drainage)	15
Thoractomy	15
Wound Debridement & Foreign Body Removal	12

**VI. No. of operation for Traumatic
Diaphragmatic Penetrating injury**

Rt. Side	4
Lt. Side	2
Blunt Diaphragmatic Injury - Lt. Side	1