

POSTER PRESENTATION

Open Access

# A retrospective study of the management of thoracic injury in Surabaya, Indonesia: twenty-six years experiences (1987-2012)

PL Tahalele\*, Puruhito, A Prasmono, H Kusbijanto, H Soebroto, YE Sembiring

From 23rd World Congress of the World Society of Cardio-Thoracic Surgeons  
Split, Croatia. 12-15 September 2013

## Background

Thoracic injuries are a major cases of mortality during the “golden hour” of trauma. Less than 10% of all blunt thoracic injuries require a emergency thoracotomy and many potentially life threatening condition can be relieved by principle procedure, such as chest tube insertion. To describe general features correlated to incidence, diagnosis, etiology, sex, age, severity and treatment of the thoracic injury patients and the way to manage it.

## Methods

The retrospective study of the 3115 thoracic injury patients treated during the period of January 1987- June 2012 (26 year) at the Emergency Department of Surgery Dr. Soetomo Hospital Surabaya provides comprehensive data concerning thoracic injury which collected and analyzed.

## Results

In the past 26 years, the total number of trauma victims treated at the Emergency Department of Surgery as 432639 patients, among whom 3473 patients were thoracic injury. They were 2949 male and 524 female. The oldest patient was 90 years old as a victim of traffic accident and the youngest was 2 month old as a victim of house accident. The numbers of blunt and penetrating trauma patients were 2973 and 500 respectively. The etiology of thoracic trauma consists of 2536 patients (73.02%) due to traffic accident; 625 patients (17.99%) due to criminality; 214 patients (6.17%) due to

occupation accident; and 98 patients (2.82%) due to house accident. The majority patients were treated non-operatively ( $\pm$  53.51%), drainage intra-thoracic ( $\pm$  41.51%) and explorative thoracotomy ( $\pm$  4.98%). There were 80 hospital deaths (2.3%), all with severe multi-trauma.

## Conclusion

The majority of the thoracic injury patient received at the department of surgery Dr. Soetomo Hospital Surabaya were treated non-operatively ( $\pm$  53.51%). The overall mortality rate of thoracic injury was 2.3%

Published: 11 September 2013

doi:10.1186/1749-8090-8-S1-P40

Cite this article as: Tahalele et al.: A retrospective study of the management of thoracic injury in Surabaya, Indonesia: twenty-six years experiences (1987-2012). *Journal of Cardiothoracic Surgery* 2013 **8**(Suppl 1): P40.

Submit your next manuscript to BioMed Central  
and take full advantage of:

- Convenient online submission
- Thorough peer review
- No space constraints or color figure charges
- Immediate publication on acceptance
- Inclusion in PubMed, CAS, Scopus and Google Scholar
- Research which is freely available for redistribution

Submit your manuscript at  
[www.biomedcentral.com/submit](http://www.biomedcentral.com/submit)



\* Correspondence: [pltahalele@yahoo.com](mailto:pltahalele@yahoo.com)

Department of Surgery Division of Cardiothoracic and Vascular Surgery  
School of Medicine Airlangga University - Dr. Soetomo General Hospital  
Surabaya, Indonesia