**A CLINICAL AUDIT ON THE IMPLEMENTATION OF THE TRAUMA ACTIVATION PROTOCOL IN A NON-LEAD HOSPITAL, HOSPITAL BUKIT MERTAJAM.**

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**Introduction**

Trauma remains the leading cause of mortality and morbidity for younger generation in Malaysia. One of the key components in Malaysian Trauma Chain of Survival is the trauma team activation. By activating the trauma team, it enables a horizontal task to be assigned to each team to facilitate the treatment. Hospital Bukit Mertajam is a non-lead hospital and has implemented the trauma activation protocol for all the polytrauma patients. Our aim of this clinical audit is to evaluate the adherence to the target time of 90 minutes in trauma activation protocol for all the patients to be transferred out to the lead hospital.

**Objectives**

Our objectives for this audit are to improve the polytrauma patients’ care at Emergency Department of Hospital Bukit Mertajam and to manage patients efficiently by adhering to Trauma Activation Protocol.

**Methodology**

This is a prospective study using data from Trauma Activation KPI Time Tracker Data from July 2022 until October 2023. Remedial measures were done in January 2023 onwards. Time based data collection from the registration of the polytrauma patient until the time of ambulance rolling to transfer out the patient to the lead hospital were analyzed using Microsoft Excel.

**Results**

Pre-remedial phase included a total of 21 cases in which only 1 case (4.8%) was able to be sent out to lead hospital within 90 minutes. In post-remedial phase, a total of 70 cases were recruited and 34 cases (48.5%) adhered to the KPI of 90 minutes.

**Conclusion**

Polytrauma management is a complex process which requires multidisciplinary team effort to ensure the patient receives the treatment within the right time and at the right hospital where the resources are available. Implementation of trauma activation protocol in Hospital Bukit Mertajam has the potential to improve the quality of patient’s care.

**Keywords**: Trauma Activation