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### Original Research Article

## Prevalence and Causes of Negative laparotomies in Penetrating and non-Penetrating Abdominal Trauma of Patients Admitted to the Intensive Care Unit

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### ABSTRACT

**Introduction:** The present study was performed to determine the frequency of various causes of negative laparotomy. It is hoped that by identifying the common causes of negative laparotomies, it will be possible to take steps to reduce mortality and increase community health by providing the necessary preconditions. **Material and Methods:** This study was performed as a descriptive retrospective study on the records of 138 patients who underwent emergency laparotomy during three years (2017-20) in Imam Khomeini Hospital affiliated to Urmia University of Medical Sciences. The number of the mentioned files was taken from the annual operating books of the operating room of the mentioned hospitals, in which the patient's details and the type of surgery were mentioned, and the relevant files were provided by referring to the archive. **Results:** In 40 patients out of 96 patients with blunt abdominal trauma, ultrasound was performed, which was positive in 32 patients and positive in 8 cases. Of the 32 positive ultrasounds, 30 had a positive result in laparotomy and 2 had a negative laparotomy; Also, out of 8 negative ultrasounds, only 2 cases were correct and in 6 cases, despite the negative ultrasound, there was a positive laparotomy. **Conclusion:** According to the findings of this study and according to scientific and reference books, the need for strict observance of surgical indications in trauma is emphasized and the observance of these scientific matters should not be limited to educational centers but can be implemented in all medical centers, both educational and non-educational.

**Keywords:** Prevalence, abdominal trauma, ICU