

Trauma is the first cause of youth mortality in

developing countries. Focused Assessment Sonography

for Trauma (FAST) has been shown to be a reliable tool

for examining the trauma patients. Hence, the purpose

of this study was to compare the FAST findings before

This descriptive-analytical study was performed on

200 trauma patients, who randomly entered the study.

Inclusion criteria were the patients with normal FAST,

and stable vital signs and exclusion criteria were

positive FAST findings, penetrating abdominal trauma

and unstable vital signs. The trauma patients,

underwent sonography at the baseline and four hours

Background:

and after serum therapy.

Patients & Methods:

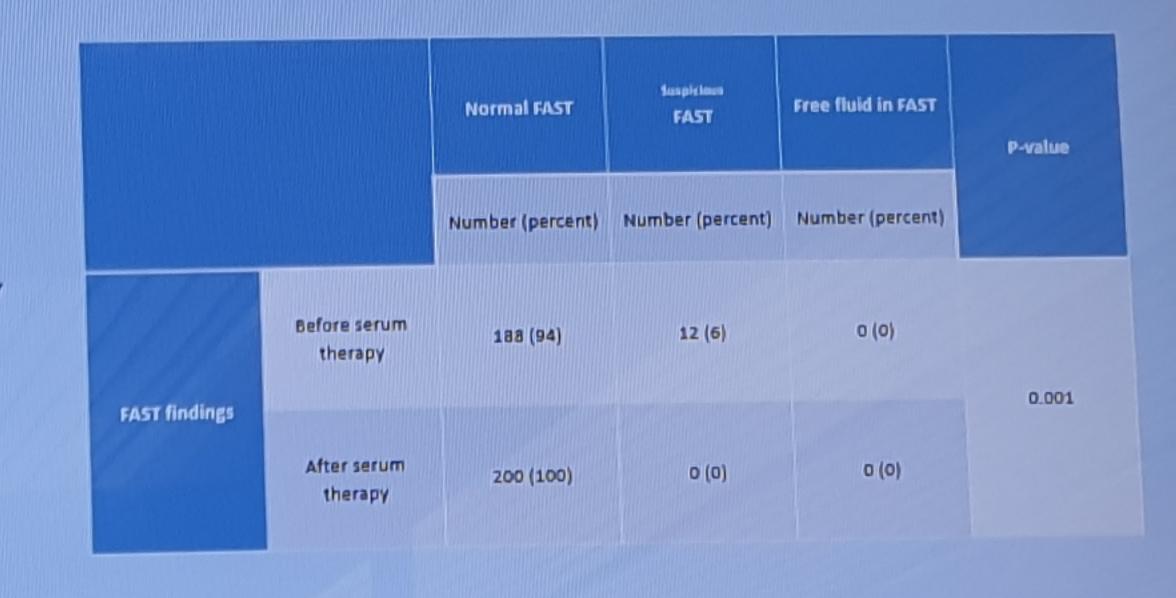
FAST (Focused Assessment with Sonography in Trauma) findings before and after serum therapy in blunt abdominal trauma patients

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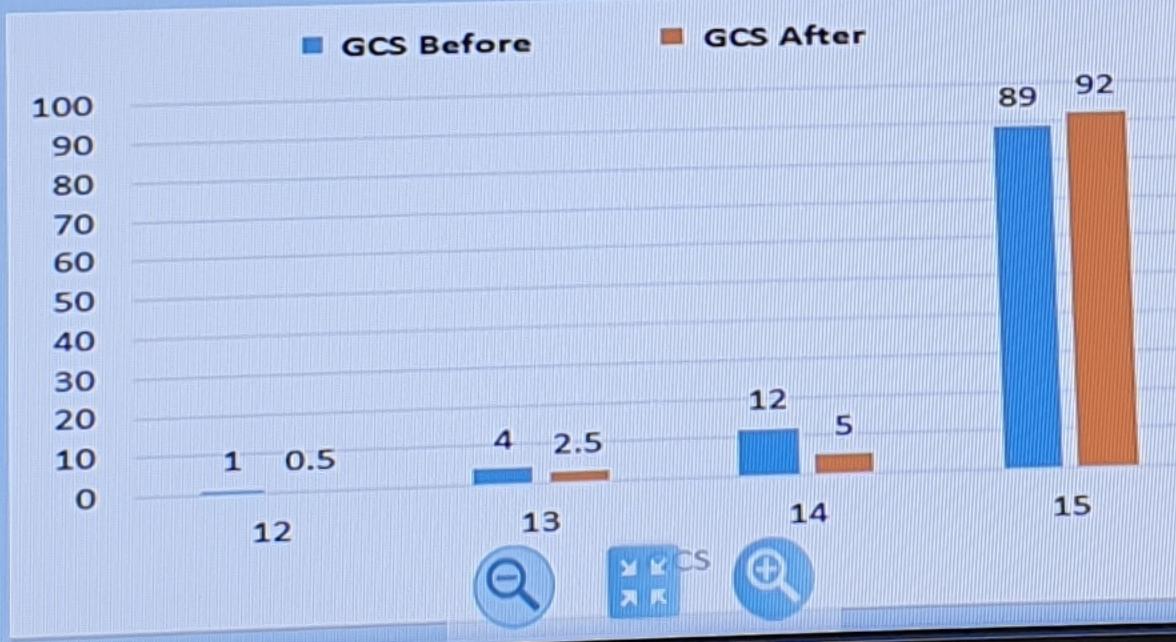
## Results & discussion:

The mean age of patients participating in the study group was 33.47±15.85 years, including 86.5% male and 13.5% female. The results showed that the serum therapy could significantly increase oxygen saturation, diastolic blood pressure and level of consciousness (P=0.001). Respiratory rate, pulse rate, and systolic blood pressure were reduced, and the number of FAST-based suspicious diagnoses were also decreased (P=0.001).



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## Figure 1: Comparison of the level of consciousness (GCS) before and after serum therapy



	■ GCS Before ■ GCS After		
100		89	92
90			
80			
70			
60			
50			
40			
30	12		
20	4 2.5		
10	1 0.5		<u> </u>
0	12 13 14		15

## Conclusion & perspectives:

The results of our study showed that the serum therapy in the patients with blunt abdominal trauma could improve blood oxygen saturation, decrease systelic blood pressure, increase diastolic blood pressure, increase the level of consciousness, and decrease tachypnea and pulse rate after four hours of patient administration in the emergency departme Our most important finding was that the serum therapy reduced the number of suspected cases in the FAST examination and increased the diagnostic accuracy of this imaging technique alone. However, the CT scans need to be used to determine the precise accuracy.

Acknowledgement :Our study demonstrated that the serum therapy reduces suspected cases in the FAST examination.

