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Dynamic changes of serum cholinesterase activity after severe trauma

Key words:

Multiple trauma

Serum cholinesterase (ChE)

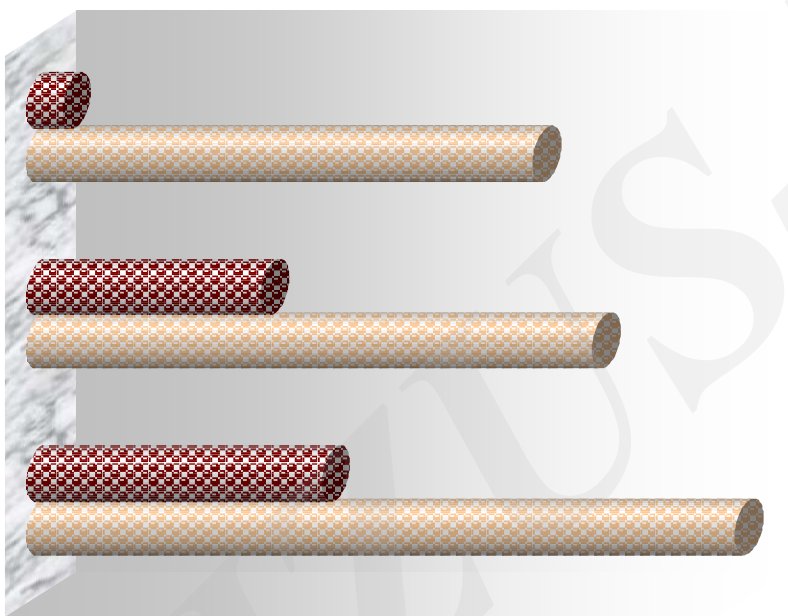
Acute phase protein (APP)



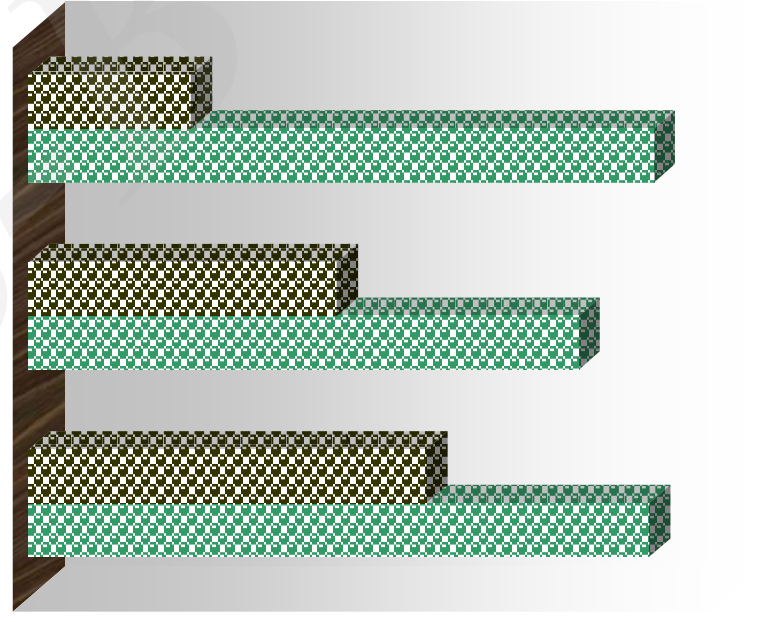


Day 7
Day 3
Day 1

Serum ChE activity



Serum ChE activity



After trauma

survival subgroup
death subgroup

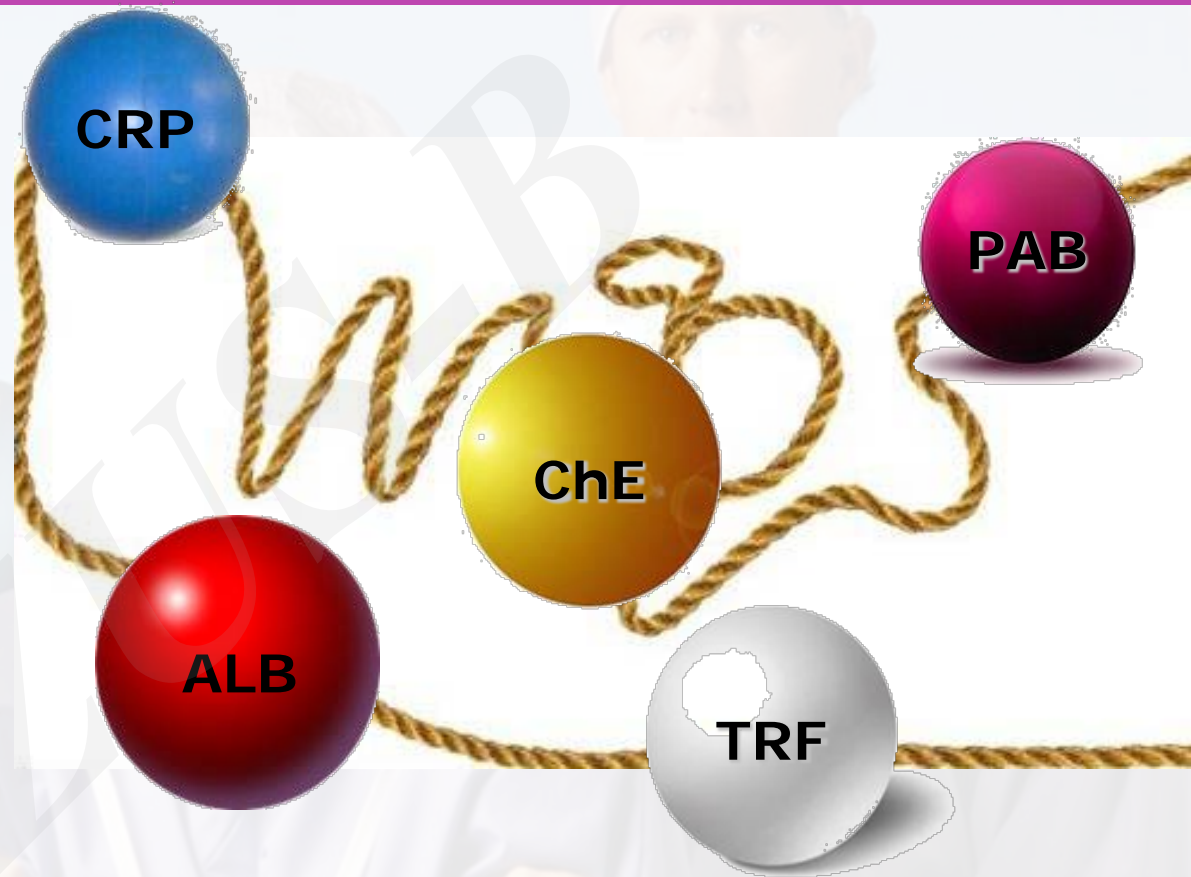
ISS ≤ 25 subgroup
ISS > 25 subgroup

The greater the decrease
The harder to recover

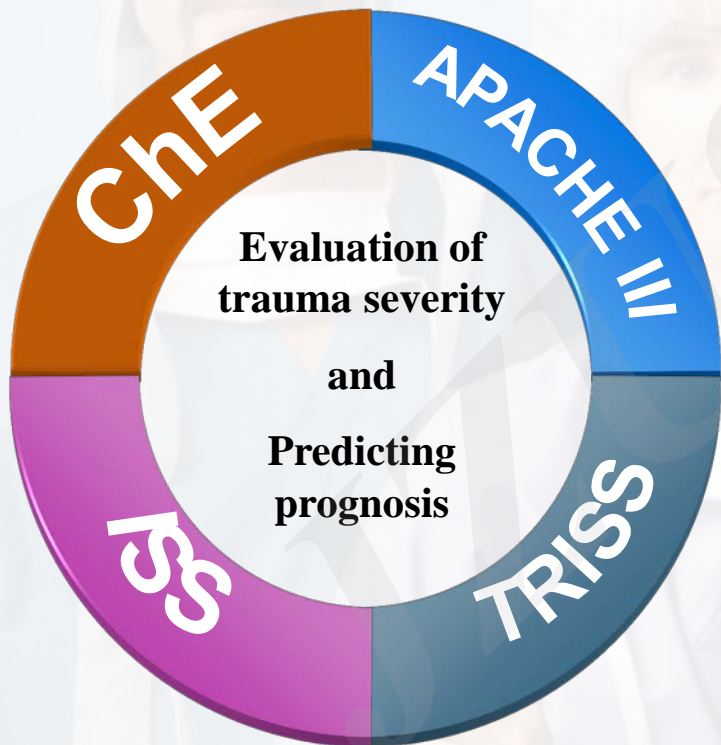


more severe injury
poorer prognosis

The change of serum ChE activity after trauma was well correlated with the changes of APP (ALB, PAB, TRF, CRP) concentration.



Serum ChE may be regarded as a type of negative APP



The value of serum ChE in assessment of the severity and prognosis was similar to ISS, TRISS and APACHE III after severe trauma.

The dynamic changes in serum ChE activity after severe trauma may help to evaluate the severity of an injury and to predict prognosis.