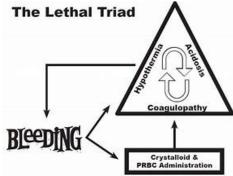
Early Tranexamic acid (TXA), an Anti-fibrinolytic agent given within 3hrs of the incident reduces the need for blood transfusions pre operatively. This therefore reduces

the need for post

operative transfusions.

Replacing blood loss with whole blood is essential. The use of RBC and FFP on a ratio of 1:1 is suggested in many trials and plays an important part of coagulopathy and the lethal triad.



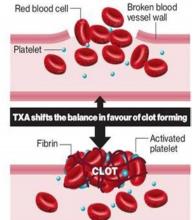
## LIFE-SAVER HOW THE NEW DRUG WORKS

TXA was developed for use on the battlefields in Afghanistan, and becomes the first drug to be fast-tracked for use in the NHS under the Government's 'medicines innovation

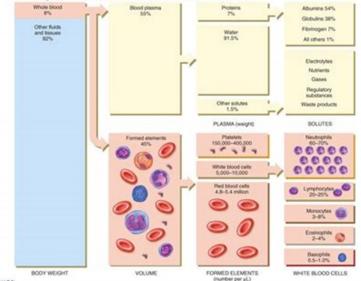
## Blood clotting

involves a complicated interaction between red cells, platlets and a blood protein called fibrin which binds the clot together. Transexamic acid (TXA). known by its tradname Cyklokapron, speeds up the process of blood clotting by preventing the breakdown of fibrin. Normally, blood clotting is limited by a substance called plasmin, which dissolves clots, but transexamic acid blocks the formation of plasmin and so speeds up clotting.





## Components of Whole Blood



Optomising haemoglobin levels pre-operatively is essential. Crash 2 study shows that TXA plays an essential part in reducing bleeding and enhancing clot formation. It also plays a part in inflammation

reduction.

