High Impact Trials

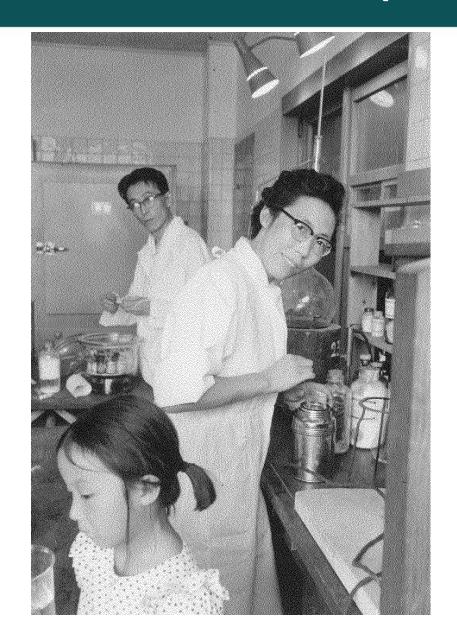
Tranexamic acid for bleeding

Eni Balogun LSHTM CTU Global Health Trials Group



Tranexamic Acid (TXA)





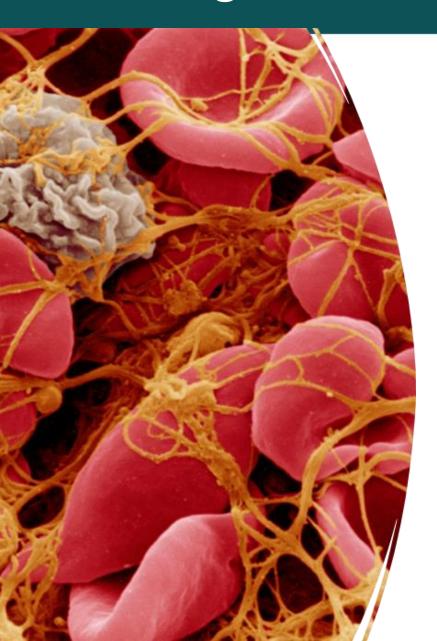
Invented in Japan 1962

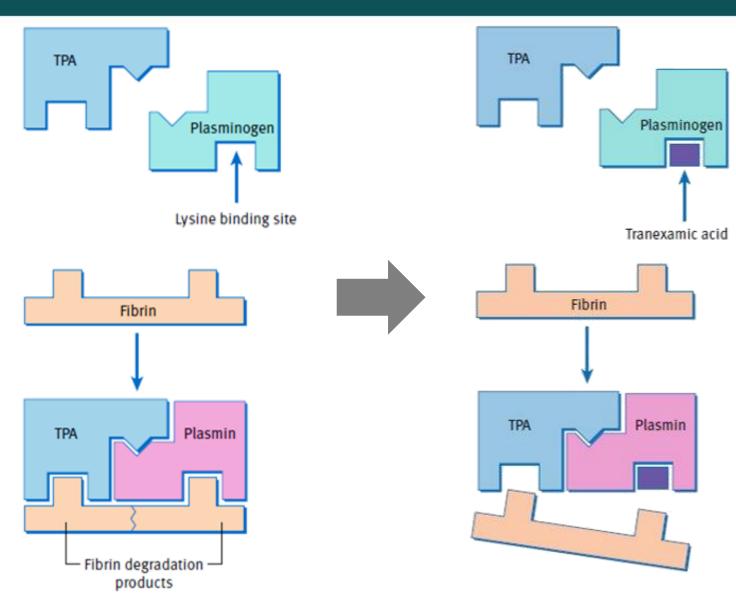
Utako and Shosuke Okamoto

Keio University

Bleeding and Fibrinolysis

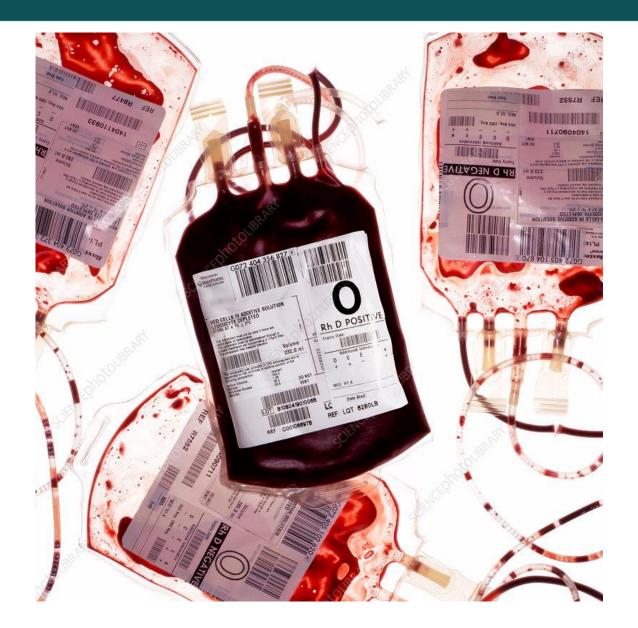






Reduces blood loss





Surgery and trauma are similar









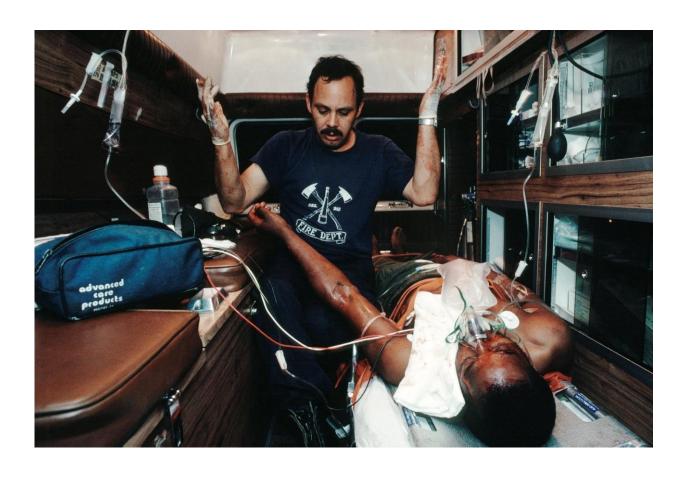


TXA for Trauma



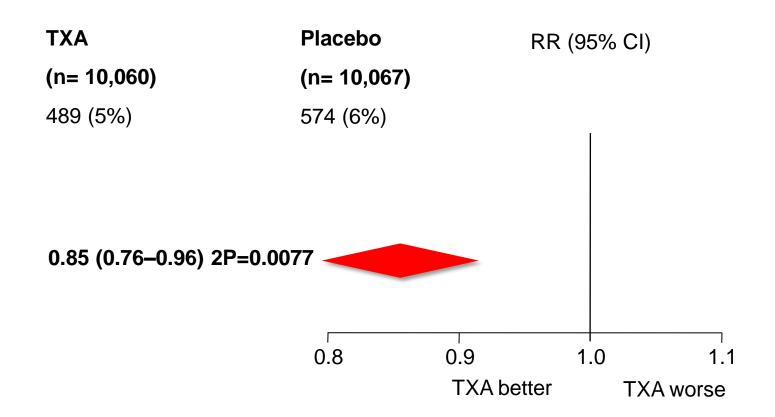


20,211 patients274 Hospitals40 countries



TXA reduces death from bleeding after trauma

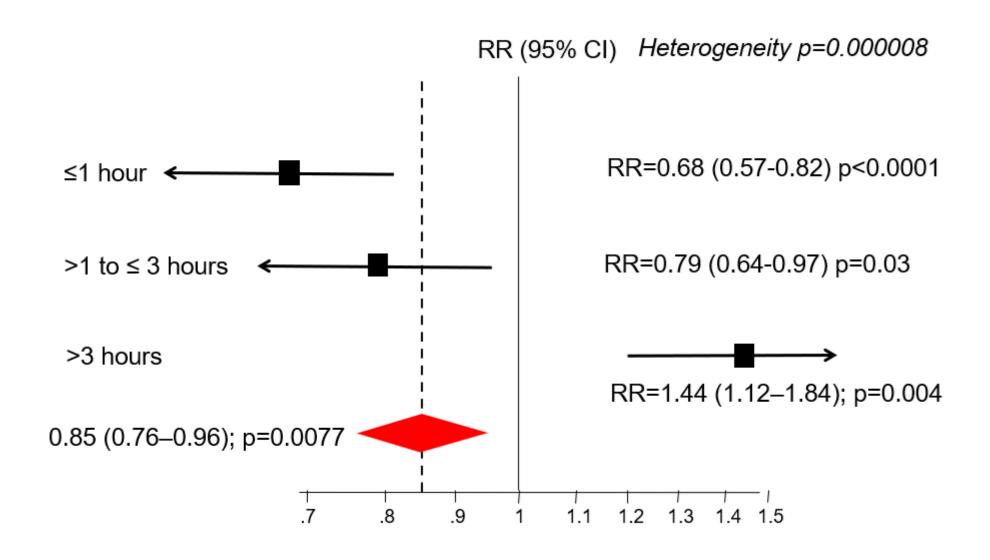




No increase in vascular occlusive events RR= 0.84 (0.68 -1.02) p=0.084

Early TXA treatment is essential in trauma



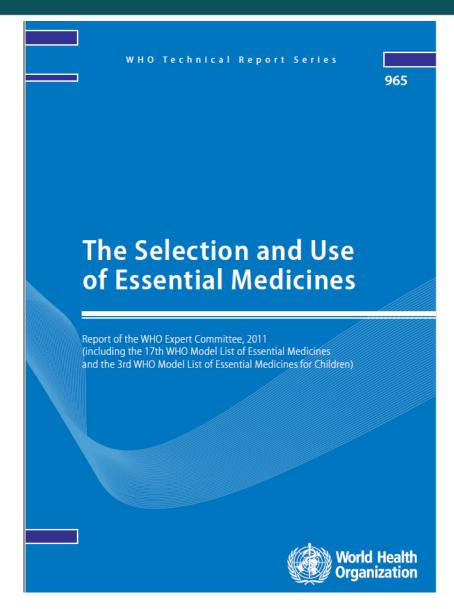




Effects of tranexamic acid on death, vascular occlusive events, and blood transfusion in trauma patients with significant haemorrhage (CRASH-2): a randomised, placebo-controlled trial

CRASH-2 trial collaborators*

"Tranexamic acid safely reduced the risk of death in bleeding trauma patients in this study. On the basis of these results, tranexamic acid should be considered for use in bleeding trauma patients"





Drug used to treat heavy periods could save lives of soldiers injured in battle

19 January 2011



Military application of TXA in trauma emergency resuscitation study proves TXA's value

By Ms Tiffany R Holloway (Army Medicine) January 24, 2012

TXA reduces death from bleeding after trauma





TXA reduces death from bleeding after trauma









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Life saving TXA

Home / Uncategorized / Life saving TXA

Great news has just been published. Tranexamic acid (TXA) has been proven effective at reducing deaths from head injuries by up to 20%. This was from a large, international, randomised, placebocontrolled clinical trial, involving over 12,000 patients from 179 hospitals in 29 countries. RoadPeace represented patients on the clinical trial, which showed that:



Newsletter of

NEUROTRAUMA SOCIETY (Published Quarterly and distributed free to members)

Vol. 8 No. 3 New Delhi April 2010



From the Secretaryis Desk

Trauma Quality Improvement globally: Quality Improvement programmes are generally regarded as a major foundation of trauma systems in high-income countries. Quality Improvement is based on structured

CLINICAL TRIALS WHICH COULD ALTER THE CURRENT NEUROTRAUMA PRACTISE

CRASH 2 Recruitment is over- results awaited



Each year, worldwide, more than five million people die as a result of injuries and violence. Injuries and violence account for as many deaths as from HIV, malaria and tuberculosis combined. In India, about 700,000 people die each year from trauma and about 86,000 of these are due to haemorrhage.

Hasta 100 mil muertes a nivel mundial podrían evitarse

Una inyección puede salvar vida de miles de víctimas de accidentes

Miles de vidas podrian salvarse cada año si los pacientes con lesiones que les producen sangrados graves recibieran una droga barata, ampliamente disponible y fácil de idministrar, que facilita la coagulación de la

Hasta 100,000 muertes a nivel mundial podrian prevenirse si el medicanento se usa de manera



riesgo de un sangrado de estudio significativo, y estuvieran venciones de 1 gramo de ATX por Añadió que

E premte 16 korrik 2010

hemoragiie. Bëhet fjalë për QKT?

Fr gjatë një periudhe gati 5 vjeçare, një studim i përmasave

lërkombëtare i ka hapur rrugë përdorimit të një medikamenti në të sëmurët e traumatizuar me hemoragji ose

në rrezik për hemoragji. Studimi ka filluar që në vitin 2005 dhe përfundoi në pjesën e parë të vitit 2010. Janë përfshirë në këtë

studim mbi 20000 pacientë, të trajtuar në 274 spitale, nga 40 vende të botës. Bëhet fjalë për përdorimin e medikamentit Ac.

Tranexamik. Për këtë studim dhe rezultatet që u konstatuan, Gazeta "Ushtria" bîsedoi me nënkolonel, Dr.i Shkencave

përfshirë 115 pacientë gjatë periudhës së studimit.

Miekësore Fatos Olldashi, drejtor i Qëndrës Kombëtare të Traumës

dhe shef i shërbimit të Neurokirurgjisë në Spitalin Ushtarak. Vetë Dr. Olldashi ka qënë pjesmarrës aktiv në këtë studim, duke

Dr. Olidashi, c'përfaqë-son ky studimi? Studimi Çarina de maj të këtij viti dhe Studimi CRASH-2 ka të rezultatet et ij u publikuun Londër. ka dë guar bëjë sakteishi me testimin zyrtarishi në revisën The e medikamentit AC. Loncet, në 15 qëtësho të repratate, të cilat u jishë

Lima, 19 de ju

Intervistë me nënkolonel Dr. i Shkencave Mjekësore Fatos Olldashi,

drejtor i Qëndrës Kombëtare të Traumës

Traumas graves Një studim që shpëton mijëra jet no serán fatales

Droga baja muerte por trauma severo



Descubren tratamiento que evita en 15% las hemorragias.





Cost-Effectiveness Analysis of Administering Tranexamic Acid to Bleeding Trauma Patients Using Evidence from the CRASH-2 Trial

Carla Guerriero¹*, John Cairns¹, Pablo Perel², Haleema Shakur², Ian Roberts², on behalf of CRASH 2 trial collaborators

"Early administration of TXA to bleeding trauma patients is likely to be highly cost effective in low-, middle- and high-income settings"







TXA for Postpartum Haemorrhage (PPH) treatment



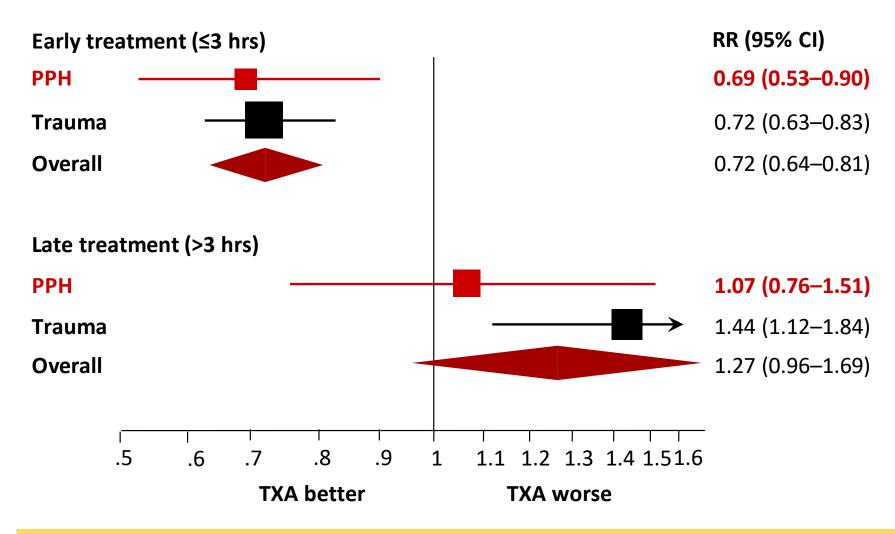


20,060 patients193 Hospitals21 countries



Death due to bleeding in trauma and PPH





No increase in thromboembolic events RR= 0.88 (0.54 -1.43) p=0.60

Death due to bleeding in PPH



TRANEXAMIC ACID

A drug that stops bleeding

Results from the WOMAN trial

The drug could save

1/3

women who would otherwise bleed to death after childbirth

An estimated **100,000** women die from severe bleeding after giving birth every year



The drug reduced the number of women bleeding to death after childbirth by more than 30%



The drug reduced the need for urgent surgery to control bleeding by more than 35% £2 (\$2.5)

The cost of tranexamic acid in most countries

20,000 WOMEN 21 COUNTRIES

193 HOSPITALS

Source: The WOMAN trial (2017) Credit: Rebeccah Robinson/LSHTM



Find out more at womantrial.lshtm.ac.uk

TXA is cost effective for treating PPH



Tranexamic acid for treatment of women with post-partum haemorrhage in Nigeria and Pakistan: a cost-effectiveness analysis of data from the WOMAN trial

Bernadette Li, Alec Miners, Haleema Shakur, Ian Roberts, on behalf of the WOMAN Trial Collaborators

"Early treatment of post-partum haemorrhage with tranexamic acid is highly cost-effective in Nigeria and Pakistan and is likely to be cost-effective in countries in sub-Saharan Africa and southern Asia with a similar baseline risk of death due to bleeding".

TXA must be given early to save lives



Impact of treatment delay for severe bleeding

Immediate treatment

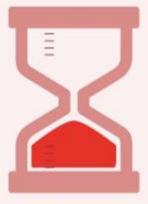


70% improvement in survival

For every 15 minute delay



10% decrease in survival benefit After 3 hours

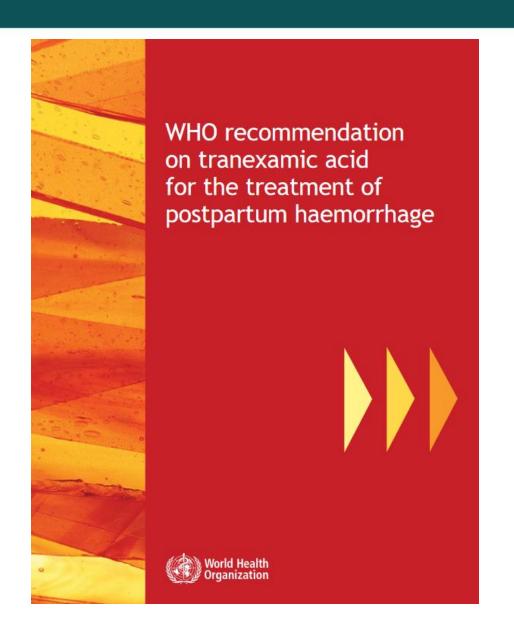


No benefit

Source: The Lancet (2017). Analysis of data for 40,000 trauma patients and women with severe bleeding after childbirth Credit: Rebeccah Robinson/LSHTM







"The WHO recommends early use of intravenous tranexamic acid (TXA) within 3 hours of birth in addition to standard care for women with clinically diagnosed post partum haemorrhage"











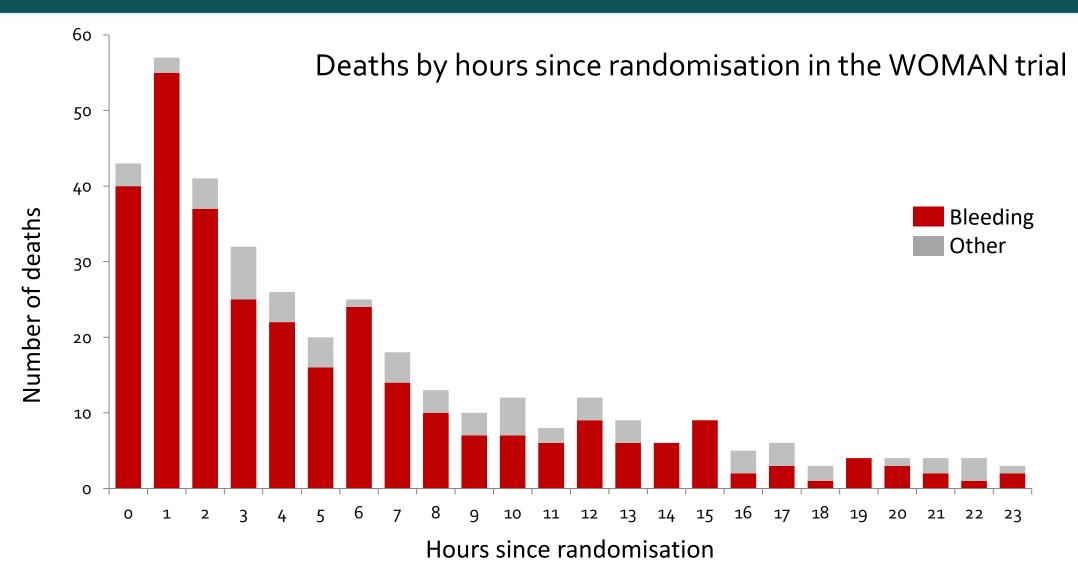






For some women treatment is too late





TXA for prevention of PPH





TXA for the prevention of PPH in women with moderate and severe anaemia

- 15,068 women randomised
- Results will be published in 2024

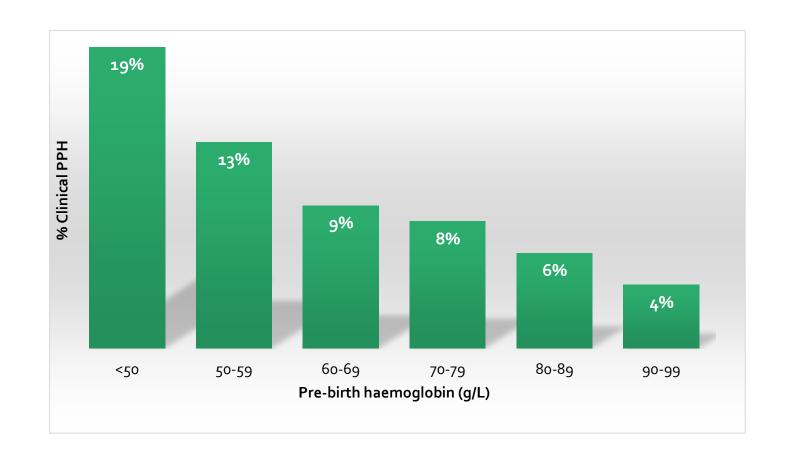


Maternal anaemia and PPH





- Cohort analysis of data from 10,500 participants
- Anaemia is strongly associated with postpartum haemorrhage and the risk of death or near miss.
- Urgent attention should be given to the prevention, diagnosis and treatment of anaemia in women of reproductive age.



















the global voice for women's health

English

Events Vruci News Vm Resources and rates of anaemia and incidence of PPH, and the urgent need to

FIGO recommendations

- All health care providers become well versed in the factors that predispose to post-partum hemorrhage and patient groups at greatest risk, from preconception health care to pregnancy
- Anemia should be proactively managed with iron therapy, including consideration of intravenous infusion when moderate to severe.





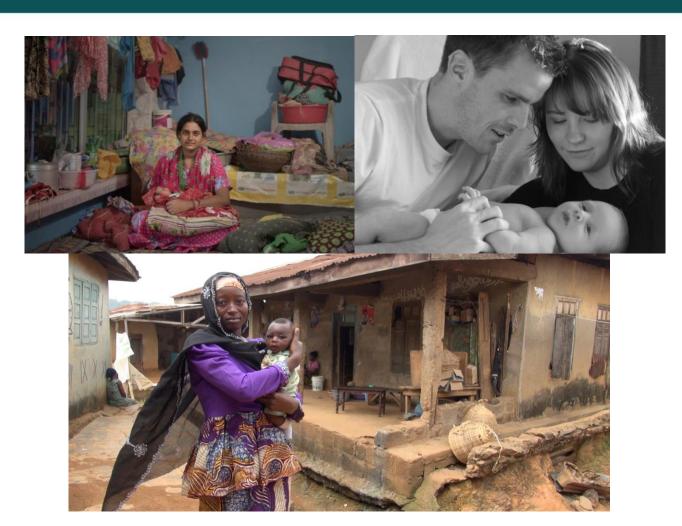
Timely TXA treatment for PPH



im. Meman

IM or IV TXA for postpartum haemorrhage prevention

- Alternative routes for giving TXA
- Recruitment expected to start in 2024

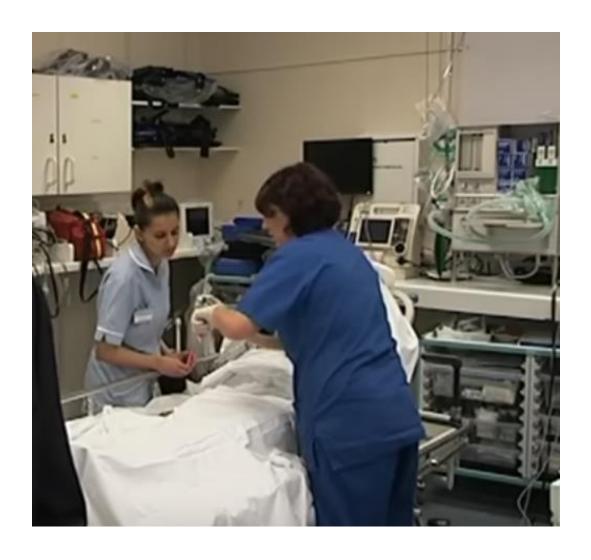


Getting TXA where it is needed









Thank you to our amazing collaborators





Clinical Trials Unit London School of Hygiene & Tropical Medicine Keppel Street, London WC1E 7HT

www.lshtm.ac.uk/research/centres-projects-groups/clinical-trials-unit



