

Adult trauma patient admitted to Emergency Department with major trauma haemorrhage. Assessed for eligibility<sup>a</sup> (n=9036)

Unknown eligibility (n=12)

## Enrollment

Eligible (n=2756)

Not eligible (n=6268)

- ◆ Judged <16 years<sup>b</sup> (n=132)
- ◆ Not affected by traumatic injury (n=601)
- ◆ Not actively bleeding (n=3664)
- ◆ Not received ≥1 unit of a blood component by time of eligibility assessment (n=573)
- ◆ Transferred from another hospital (n=487)
- ◆ Injury incompatible with life (n=273)
- ◆ >3h from injury (n=329)
- ◆ Patient enrolled in another trial (n=139)
- ◆ Other<sup>c</sup> (n=66)
- ◆ Reason unavailable (n=4)

Not randomised (n=1152)

- ◆ Unavailability of research team (n=888)
- ◆ Patient died (n=58)
- ◆ Other<sup>d</sup> (n=203)
- ◆ Reason unavailable (n=3)

Randomised (n=1604)

## Allocation

Allocated to: **CRYO**<sup>e</sup> (n=799)

- ◆ Received allocated intervention (n=434)
- ◆ Did not receive allocated intervention (n=337)
  - ◆ No active bleeding (n=56)
  - ◆ Patient died (n=18)
  - ◆ Other reason cryo not given (n=54)
  - ◆ Cryo given >90min from hospital arrival (n=128)
  - ◆ Less than 3 pools administered (n=36)
  - ◆ Cryo given >3hrs from injury (n=45)
- ◆ Unknown (n=28)

Allocated to: **STD**<sup>f</sup> (n=805)

- ◆ Received allocated intervention (n=805)

## Follow-Up

Primary outcome unavailable (n=10)  
Withdrawn (n=29)

Primary outcome unavailable (n=13)  
Withdrawn (n=21)

## Analysis

28-day outcome analysis (n=760)

28-day outcome analysis (n=771)

<sup>a</sup> The trauma team leader assessed the patient to confirm whether the participant: was 16 years or older either by information known to the team or by visual inspection; had sustained severe injury; was bleeding (using a combination of vital signs/clinical inspection and examination) and needed transfusion therapy according to the major hemorrhage protocol; and had/or was receiving one unit of any blood component.

<sup>b</sup> If the age of a participant was not known at randomization, eligibility was fulfilled if the trauma team leader judged the participant visually to be 16 years or older.

<sup>c</sup> Pregnancy, local policy exclusions and patient in police custody are some of the 'Other' reasons reported for patients not being eligible.

<sup>d</sup> COVID-19, out of hours, research team not contacted, study closed and rushed to theatre are some of the 'Other' reasons patients were not randomised.

<sup>e</sup> CRYO: an additional, three pools of cryoprecipitate delivered as early as possible and starting within 90 minutes of admission were added to the STD described below

<sup>f</sup> STD: standard MHPs delivered RBC and FFP in 4+4 unit packs, with a pool of platelets and two pools of cryoprecipitate in the second and subsequent packs.

**Abbreviations:** RBC, Red Blood Cell; FFP, Fresh Frozen Plasma; Cryo, Cryoprecipitate; MHP, major hemorrhage protocol, STD, Standard group;