Raigmore Hospital
Major Haemorrhage Protocol
(Adult >50kg)

NHS Highland
na Gàidhealtachd

Identify Major Haemorrhage

Ongoing severe blood loss e.g. : 150 ml/min or clinical evidence of shock

Activate Major Haemorrhage Protocol :
Dial 2222 : 'Adult Major Haemorrhage in location x at extension xxxx'
Bloods: X-match, FBC, coag, U&E, blood gas

BTS lab will phone area and issue Pack 1

Red cells	4 units
FFP	4 units (available 30 mins later)

- **4 units O neg RBC in ED**
- **2 units in first floor fridge outside theatre**

Transfuse

Call lab 4216 and order Pack 2

Red cells	4 units
FFP	4 units
Platelets	1unit

Order 2 packs **cryoprecipitate** if fibrinogen <1g/l (<2g/l in obstetric haemorrhage)

Reassess
Take bloods and send to lab:
FBC, coag, U&E, Ca^{2+}, blood gas

Bleeding Stopped

Ongoing Bleeding

Stand Down
- Phone switchboard
- Return unused products

Tranexamic acid (TXA):
1g bolus followed by 1g over 8 hours.
Caution in UGIB.
Consider early platelets

Patients on Warfarin
Vitamin K
Prothrombin Complex Concentrate (BTS lab and ED)

Patients on Rivaroxaban or Apixaban:
Andexanet alfa (ICU)
Discuss with Haematology Consultant

Anticipate hypocalcaemia and hyperkalaemia.
Consider 10ml **calcium chloride** 10% or 30ml **calcium gluconate** 10%

Maintain

Hb	> 70g / L
Platelets	>50 x 10^9/L
PT ratio	<1.5
APTT ratio	<1.5
Fibrinogen	>1g/L, 2g/L in Obstetrics
Ca^{2+}	>1 mmol/L (on blood gas)
Temp	> 36°C
pH	> 7.35 (on blood gas)

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