

Major haemorrhage - Example Audit tool

Section	Question	Options
Patient identifier	Anonymised	E.g. CPC1, JTH1
Location of patient	Where were they?	<input type="checkbox"/> Home <input type="checkbox"/> Hospice <input type="checkbox"/> Hospital <input type="checkbox"/> Care home <input type="checkbox"/> Other
Risk assessment		
Why is patient at risk of bleeding?	What is the cause of bleeding risk	Site of cancer with fungating/malignant ulceration e.g. head and neck, haematological, breast, penile cancer,
		other
		Presentation with bleeding e.g. haemoptysis in lung cancer, melaena
		Co-existing disease e.g. gastrointestinal bleeding, oesophageal varices
		Smaller warning (herald) bleeds
		Local infection at the tumour site
	Clotting abnormalities (including liver failure)	
	Drugs that inhibit coagulation	<input type="checkbox"/> Yes <input type="checkbox"/> No Which ones: a. Warfarin b. DOAC c. Low molecular weight heparin d. Aspirin e. Clopidogrel f. Other

Advance Care Planning	Documented advance care plan available in place patient was.	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes was there: a. DNACPR b. TEP/ReSPECT form completed c. Place of death documented If yes was it: <input type="checkbox"/> Home <input type="checkbox"/> Hospice <input type="checkbox"/> Hospital <input type="checkbox"/> Care home <input type="checkbox"/> Other
	Documented review of medicines and consideration of stopping	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes which drugs <input type="checkbox"/> Warfarin <input type="checkbox"/> DOAC <input type="checkbox"/> Low molecular weight heparin <input type="checkbox"/> Aspirin <input type="checkbox"/> Clopidogrel <input type="checkbox"/> Other
	Communication with other health care professionals	<input type="checkbox"/> Yes <input type="checkbox"/> No Documentation in house
	Prepare equipment: Haemostatic Gauze / Granules for bleeding wounds	What was put in house: <input type="checkbox"/> Haemostatic gauze <input type="checkbox"/> Adrenaline soaks/ <input type="checkbox"/> Tranexamic acid soaks <input type="checkbox"/> Haemostatic Granules <input type="checkbox"/> Other
	Dark towels, surgical face shields (where available), gloves, aprons, plastic sheet or pads, clinical waste bags	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Was there a prescription and preparation of crisis medication and emergency drug box?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes free text document which drugs

Outcome	Where did they die?	<input type="checkbox"/> Home <input type="checkbox"/> Hospice <input type="checkbox"/> Hospital <input type="checkbox"/> Care home <input type="checkbox"/> Other Was this their preferred place of care? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Did they bleed?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes tick all that apply: <input type="checkbox"/> Large bleed requiring intervention <input type="checkbox"/> Small bleed no interventions required Time between bleed and death: <input type="checkbox"/> 1 hour <input type="checkbox"/> Less than 4 hours <input type="checkbox"/> Less than 12 hours <input type="checkbox"/> Less than 24hours <input type="checkbox"/> 24hours–7 days <input type="checkbox"/> More than 7 days <input type="checkbox"/> Other
	If yes	What equipment was used: <input type="checkbox"/> Haemostatic gauze <input type="checkbox"/> Adrenaline soaks <input type="checkbox"/> Tranexamic acid soaks <input type="checkbox"/> Celox™ dressings (or similar) <input type="checkbox"/> Dark towels <input type="checkbox"/> Midazolam – buccal <input type="checkbox"/> Free text dose <input type="checkbox"/> Midazolam - IM <input type="checkbox"/> Free text dose used

Outcome continued	How did the family experience the bleeding?	Feedback from family
	How did the staff involved experience the bleeding?	Feedback from staff

Table 1 Published evidence outside of licence

Efeoglu, C et al. Turk J Gastroenterol 2019;30(2):171-6	Celox™ Celox™ vs Surgicel in 80 patients with cirrhosis having tooth extractions. No significant difference between products
Carles, G et al. J Gynaecol Obst Huma Reprod 2017	4 case reports of post-partum haemorrhage resolved by using Celox.
Muzzi, L et al. Interactive Cardiovascular & Thoracic Surgery 2012;14:695-698	2 case reports of patients post-cardiotomy needing ECMO where Celox™ Celox™ was used on sternal edges and pericardial cavity alongside other measure such as VAC.