



# IR PROCEDURE BLEEDING RISK GUIDANCE

## PRE-ASSESSMENT SCREENING

All patients, not on anti-thrombotic therapy, can be initially assessed using the HEMSTOP questionnaire below (each question scores 1 for yes):

- Have you ever consulted a doctor or received treatment for prolonged or unusual bleeding (such as nosebleeds, minor wounds)?
- Do you experience bruises/haematomas larger than 2 cm without trauma or severe bruising after minor trauma?
- After a tooth extraction, have you ever experienced prolonged bleeding requiring medical/dental
- Have you experienced excessive bleeding during or after surgery?
- Is there anyone in your family who suffers from a bleeding disorder (such as haemophilia or von Willebrand disease)?
- Have you ever consulted a doctor or received treatment for heavy or prolonged menstrual periods (contraceptive pill, iron etc.)?
- Did you experience prolonged or excessive bleeding after delivery?

If < 2 positive responses:

LOW RISK PROCEDURES: No coagulation screen or FBC required

MODERATE/HIGH RISK PROCEDURES: No coagulation screening required; FBC only

If ≥ 2 positive responses:

Perform coagulation screen (FBC, PT, APTT, Clauss fibrinogen assay) and discuss with haematologist prior to procedure

## **BLEEDING RISK STRATIFICATION FOR COMMON IR PROCEDURES**

### LOW RISK INTERVENTIONS

Basic venous interventions (IVC filter insert/removal) Superficial interventions/ biopsies (excluding liver/renal)

GI tract stenting

MSK interventions

US guided drainages Catheter exchange/removal

Arterial interventions (≤ 6F)

Arterial interventions (≥ 7F)

Embolisation (TACE/UAE/PAE)

Aortic stent grafting

Venous/dialysis access interventions

Tumour ablation

HIGH RISK INTERVENTIONS

Tunnel line insertions

PCNL/renal biopsy/nephrostomy

TIPSS/TJ liver biopsy

Liver biopsy/biliary intervention

## PRE-PROCEDURAL BLOOD PARAMETERS REQUIREMENTS

## LOW RISK INTERVENTIONS

No procedure specific

laboratory tests

HIGH RISK INTERVENTIONS Hb: > 70 q/L

Hb: > 70 g/L

Plts: > 50 x 109/L

Plts: > 50 x 109/L

If on vit K antagonist INR: < 2.0

If on vit K antagonist INR: < 1.5

## LIVER DISEASE\*

Consider correction if:

Fibrinogen: < 1.2 g/L

Plts: < 50 x 109/L

Haematocrit < 25%

## PRE-PROCEDURAL ANTI-THROMBOTIC MEDICATION INSTRUCTIONS\*

### \*CONSIDERATIONS:

Warfarin/Acenocoumarol

- 1. Cardiac stents and stroke or thrombosis within 3 months: consult appropriate clinical team
- 2. Patients on dual antiplatelet therapy, ticagrelor or prasugrel: follow local policy or consult appropriate specialist
- 3. Follow local Trust policy for referral to bridging clinic
- 4. Bleeding and thrombosis risks should be discussed as part of the consent process

### **HEPARINS:** Low Risk Procedures

	Hold duration prior to procedure	Suggest restart time following procedure
Unfractionated Heparin	2-4 h	6 h
LMWH (prophylactic)	12 h	6-12 h
LMWH (therapeutic)	1 day	6-12 h

	TILFAKINS. Moderate/High Nisk Flocedures	
	Hold duration prior to procedure	Suggest restart time following procedure
Unfractionated Heparin	4 h	12-48 h
LMWH (prophylactic)	12 h	1 day
LMWH (therapeutic)	1 day	1-3 days

Hold duration prior to procedure	Suggest restart time following procedure
2.2 days	Evening

### Warfarin/Acenocoumarol 2-3 days Evening

Hold duration prior to procedure	Suggest restart time following procedure
5 davs	12-24 h

	Hold duration prior to procedure	procedure
Dabigatran	1 day if eGFR > 50 2 days if eGFR < 50	1 day
Argatroban	2-4 h	6 h

THOMBIN III	mbitors. Moderate/riight Mak i roccoures (as per	1 ACCL protocor)
	Hold duration prior to procedure	Suggest restart time following procedure
Dabigatran	2 days if eGFR > 50 4 days if eGFR<50	2-3 days
Argatroban	4 h	6 h

## Factor Xa Inhibitors: Low Risk Procedures (as per PAUSE protocol)

	Hold duration prior to procedure	Suggest restart time following procedure
Apixaban/Rivaroxaban/Edoxaban	Omit 1 day prior	Restart after 1 day
Fondaparinux (prophylactic)	1 day	6 h
Fondaparinux (therapeutic)	2 days	6 h
Factor Ya Inhibitor	s: Moderate/High Rick Procedures (as no	r PALISE protocol)

### Suggest restart time following Hold duration prior to procedure procedure Apixaban/Rivaroxaban/Edoxaban Omit 2 days prior Restart after 2-3 days Fondaparinux (prophylactic) 1 day 12-24 h 12-24 h Fondaparinux (therapeutic) 2 days

### Aspirin & ADP Receptor Inhibitors: Low Risk Procedu

procedure procedure			
AVA		Hold duration prior to procedure	Suggest restart time following procedure
spirin/ Clopidogrei/ Licagreior/Prasugrei Does not need to be stopped N/A	spirin/ Clopidogrel/Ticagrelor/Prasugrel	Does not need to be stopped	N/A
Aspirin & ADP Receptor Inhibitors: Moderate/High Risk Procedures	Aspirin & ADP	Receptor Inhibitors: Moderate/High Ris	sk Procedures

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<sup>\*</sup> Neither PT nor INR correlate well with bleeding risk in patients with liver disease