



# IR PROCEDURE BLEEDING RISK GUIDANCE<sup>2</sup>

# PRE-ASSESSMENT SCREENING

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

- 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 consultation?
- 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<sup>b</sup>

### 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)

Embolisation (TACE/UAE/PAE)

Venous/dialysis access interventions

Tunnel line insertions<sup>c</sup>

Tumour ablation PCNL/renal biopsy/nephrostomy

TIPSS/TJ liver biopsy

Liver biopsy/biliary intervention

HIGH RISK INTERVENTIONS

Arterial interventions (≥ 7F)

Aortic stent grafting

# 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 DISEASEd

Consider correction if:

Fibrinogen: < 1.2 g/L Plts: < 50 x 10<sup>9</sup>/L

\* This is a unmany guidenceand complementary to more detailed guidence. Bittish Journal of Teamandagy, 2004, 2014;51, 1697-1713

\*The guidence is not invested to be detailed for every variance of every procedure, and focal publishes and operator pudgment remain should ideally be pair of the consent process.

\*\*Plateder count of 2014 on 1071-life an acceptable target.\*\* \*\* Neither PT not NR correlate well with bleeding riskin patients with liner doc

PRE-PROCEDURAL ANTI-THROMBOTIC MEDICATION INSTRUCTIONS\*

\*CONSIDERATIONS:

- 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

	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

### Vitamin K Antagonists: Low Risk Procedures | INR < 2.0 on day of procedure

Suggest restart time following Hold duration prior to procedure procedure

Warfarin/Acenocoumarol 2-3 days Evening

erate/High Risk Procedures | INR < 1.5 on day of procedure

Suggest restart time following Hold duration prior to procedure procedure

Warfarin/Acenocoumarol 5 days 12-24 h

### Thrombin Inhibitors: Low Risk Procedures (as per PAI Suggest restart time following Hold duration prior to procedure

	•	procedure
Dabigatran	1 day if eGFR > 50 2 days if eGFR < 50	1 day

Argatroban 6 h Thrombin Inhibitors: Moderate/High Risk Procedures (as per PAUSE protocol

### Suggest restart time following Hold duration prior to procedure procedure

2 days if eGFR > 50 Dabigatran 2-3 days 4 days if eGFR<50

Argatroban 4 h 6 h

## Procedures (as per PAUSE

	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

### Suggest restart time following Hald donation union to mucocal con-

	riola daration prior to procedure	procedure
Apixaban/Rivaroxaban/Edoxaban	Omit 2 days prior	Restart after 2-3 days
Fondaparinux (prophylactic)	1 day	12-24 h
Fondaparinux (therapeutic)	2 days	12-24 h

Suggest restart time following Hold duration prior to procedure procedure

Aspirin/ Clopidogrel/Ticagrelor/Prasugrel N/A Does not need to be stopped

### or Inhibitors: Moderate/High R Suggest restart time following Hold duration prior to procedure

	p p	procedure
Aspirin (low dose monotherapy)	Does not need to be stopped	N/A
Clopidogrel	VASCULAR: Operators discretion	VASCULAR: Operators discretion

Ticagrelor/Prasugrel 7 days 1 day

Dipyridamole Omit on day of procedure N/A