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Title: ACVA Protocol for Bridging Therapy			
Effective Date:		Revised I	Date:

PURPOSE: To provide guidelines for anticoagulation bridging therapy and identify patients to be bridged.

PROCEDURE:

- 1. Recent stenting:
 - Aspirin 81 mg should be continued.
 - Patients anticipating "necessary elective" surgical procedures that meet the following criteria may hold their medications based on the following recommendations:
 - a. > than 2 weeks post angioplasty
 - b. > than 4 weeks post bare metal stent
 - c. > 6 months post drug eluding stent (DES)
 - Clopidegrel should be stopped 5 days before procedure
 - Prasugrel should be stopped 7 days before procedure
 - Ticagrelor should be stopped 5 days before procedure
 - Medications should be resumed 48 hours post-surgery, if there are no signs of active bleeding.
- 2. Mechanical Valve Bridging
 - The following patients require bridging therapy
 - a. Mitral valve prosthesis
 - b. 2 or more mechanical valves
 - c. Non-bileaflet aortic valve
 - Bi-leaflet aortic valve with high risk features Atrial Fibrillation Heart Failure TIA/CVA

Prior embolic event or intra-cardiac thrombus

- Lovenox 1 mg/kg is recommended for both aortic and mitral mechanical valves per the 2014 Valve guidelines
- Warfarin should be discontinued 5 days prior to the procedure.
- Warfarin can be started 24 hours after the procedure with heparin drip overlap for 5 days or when INR becomes therapeutic. Lovenox may be used to bridge back to therapeutic INR levels also.
- Bileaflet aortic valves at *low risk* do not require bridging. This is a new class 1 recommendation
- 3. Atrial fibrillation
 - Use the CHADSVASC risk calculator
 - Use the online creatinine clearance calculator

- Briding therapy is recommended for patient with the following:
 - a. CHADS 2 \geq 4 or CHADSVASC of 6
 - b. Prior CVA or TIA
 - c. Mitral valve stenosis
 - d. Prior embolic event
 - e. Intra-cardiac thrombus
- Pradaxa (dabigatran), Eliquis (abixabab) or Xarelto (rivoraxaban) discontinuation is based on the patient's creatinine clearance.
- Lovenox bridging therapy should be started the day after the oral anticoagulant is stopped.

Dosing is based on 1 mg/kg SC every 12 hours.

- Lovenox should be discontinued 24 hours prior surgery.
- Pradaxa (dabigatran), Eliquis (abixabab) or Xarelto (rivoraxaban) discontinuation discontinuation criteria:

Pradaxa

CrCl >or = 50ml/min Discontinue 1-2 days prior surgery CrCl < 50ml/min Discontinue 3-5 days prior surgery

Eliquis

Low risk surgery discontinue 24 hours prior surgery Moderate to high risk surgery discontinue 24-48 hours prior surgery

Xarelto

Stop 24 hours prior to surgery

- Restart the original oral anticoagulation agent 48 hours after the procedure if there has been no bleeding.
- No heparin drip or Lovenox is necessary with the new agents described above after the procedure.

Approved:_____ Department Manager

Date:_____

Approved:_____ Administrator/Physician

Date:_____