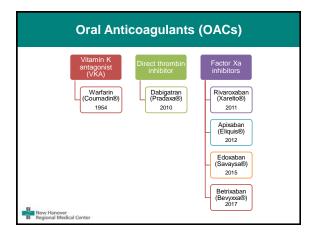
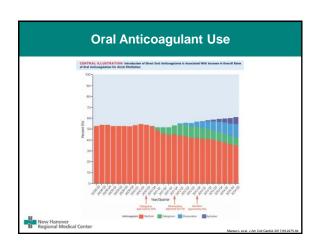
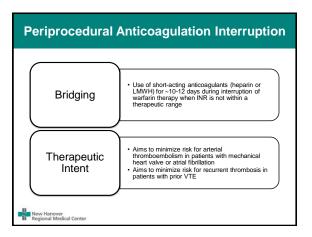
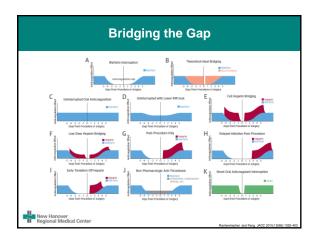


Objectives Assess a patient's periprocedural thromboembolism and bleed risk Recommend to hold or bridge oral anticoagulation with parenteral anticoagulation Create a plan to re-initiate anticoagulant therapy after reversal of an oral anticoagulant related bleed Now Manouer Regional Medical Center



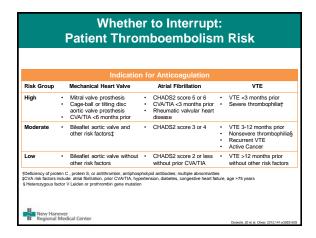




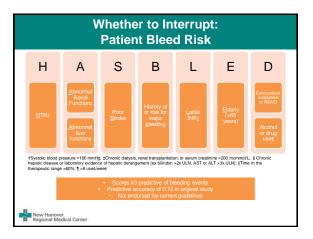


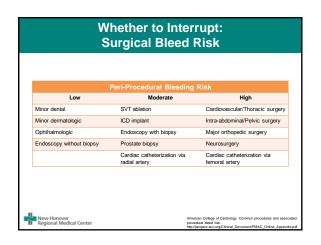


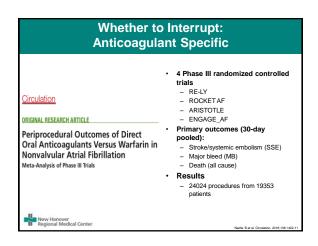


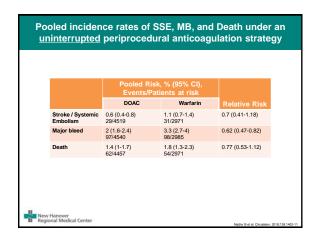


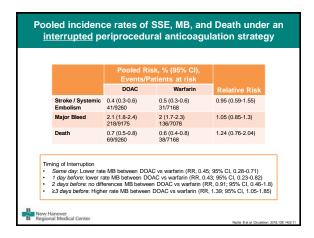
Risk Factor	Score	CHA ₂ DS ₂ -VASc Total	1-yr risk of ischemic stroke(%
Congestive heart failure / LV dysfunction*	1	0	0
Hypertension+	1	1	1.3
Age ≥75 years	2	2	2.2
Diabetes mellitus	1	3	3.2
Stroke, TIA or thromboembolism	2	4	4.0
√ascular Disease∫	1	5	6.7
Age 65-74	1	6	9.8
Sex (female)	1	7	9.6
		8	9.7
Total		9	15.2

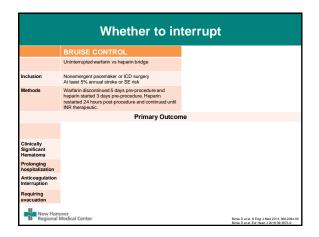


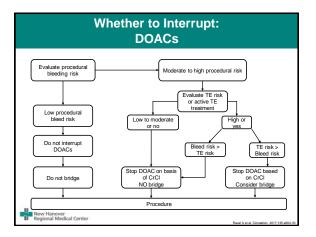


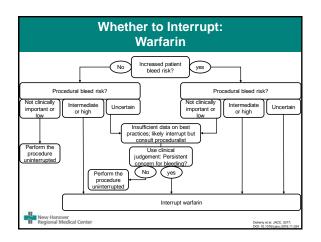














When to Interrupt: DOACs						
Rivaroxaban	Apixaban	Edoxaban	Dabigatran			
92%-95%	~87%	55%	35%			
5-9 h	~12 h (8-15 h)	10-14 h	12-17 h			
Elderly 11-13 h						
Hepatic: oxidation by CYP3A4/5, CYP2J2 Hydrolysis (51%)	Hepatic: CYP3A4/5 (25%)	Minimal CYP3A4 hydrolysis, conjugation, oxidation	Esterase-catalyzed hydrolysis			
No active circulating metabolites	No active circulating metabolites	Active metabolite (M- 4, <10% of parent)				
P-gp and ABCG2 (BCPR) substrate	CYP3A4, P-gp, BCRP substrate	P-gp substrate	Not a substrate, inhibitor or inducer of CYP450 enzymes			
Renal (66%): 36% active, 30% inactive	Renal (27%)	Renal (~50%): primarily unchanged	Renal			
Feces (28%): 7% active, 21% inactive	Biliary and direct intestinal excretion	Metabolism and biliary / intestinal excretion	Feces			
	Rivaroxaban 92%-95% 5-9 h Elderly 11-13 h Hepatic: oxidation by CYP3A4/5, CYP2J2 Hydrolysis (51%) No active circulating metabolites P-gp and ABCG2 (BCPR) substrate Renal (66%): 36% active, 30% inactive Faces (26%): 7%	Rivaroxaban Apixaban 92%-95%87% 5-9 h12 h (8-15 h) Elderly 11-13 h Hepatic: oxidation by CYP3A4/5 (25%) Hydrolysis (51%) No active circulating metabolites metabolites metabolites P-gp and ABCG2 (BCPR) substrate Renal (66%): 36% active, 30% inactive Feces (28%): 7% billiary and direct	DOACs Rivaroxaban Apixaban Edoxaban			

Perioperative Anticoagulant Use for Surgery Evaluation (PAUSE) Study. A Perioperative Management Plan for Patients with Atrial Fibrillation Who Are Receiving a Direct Oral Anticoagulant

Hypothesis

A standardized perioperative management strategy based on DOAC-specific interruption and resumption intervals without heparin bridging is safe

Methods

Inclusion criteria

Patients taking apixaban, dabigatran or rivaroxaban for atrial fibrillation and requiring interruption for elective surgery/procedure

Protocol

No heparin bridge

BOAC by Board Strategy Specified Pre-procedura interruption timing of BOAC

Delignora High

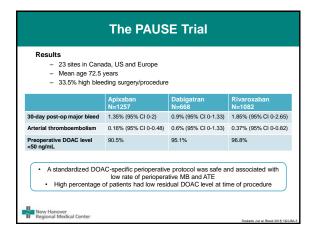
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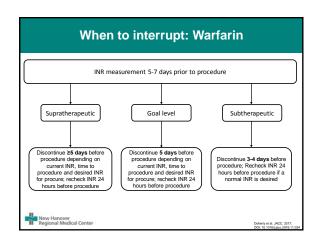
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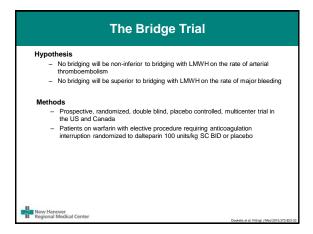
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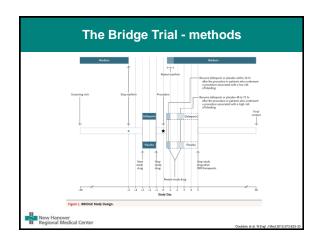


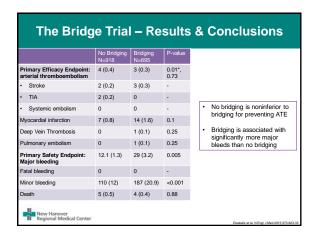
Low bleed risk			High bleed risk					
	Dabigatran		Fxa Inhibitor		Dabigatran		Fxa inhibitor	
CrCl	Discontinue	CrCl	Discontinue	CrCI	Discontinue	CrCI	Discontinue	
<15	No data; consider dTT and/or ≥96 hrs	<15	No data; consider anti Xa level and/or ≥48 hrs	<15	No data; consider dTT	<30	No data; consider anti Xa level an/or ≥72 hrs	
15-29	≥72 hrs	15-29	≥36 hrs	15-29	≥120 hrs	≥30	≥48 hrs	
30-49	≥48 hrs	≥30	≥24 hrs	30-49	≥96 hrs			
50-79	≥36 hrs			50-79	≥72 hrs			
≥80	≥24 hrs			≥80	≥48 hrs			

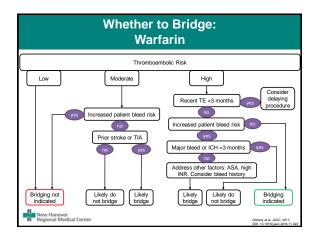


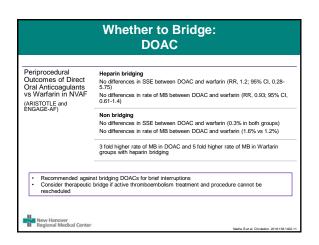




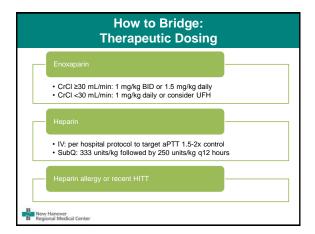


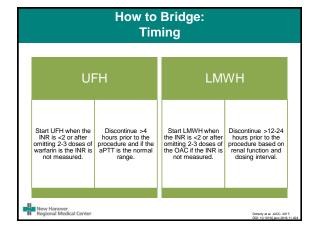




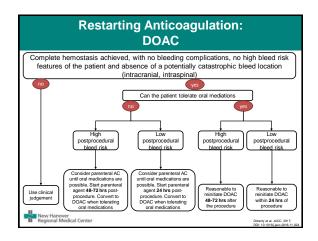


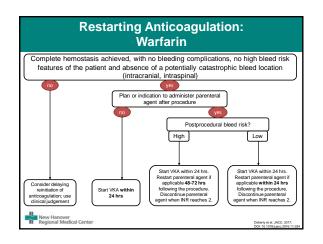


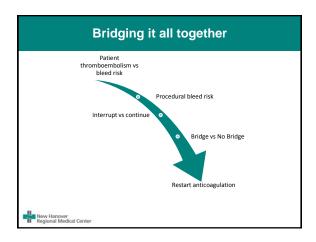












Restarting Anticoagulation After Reversal of Oral Anticoagulation

Bleeding Events with Oral Anticoagulants Major bleeding rates 0.6-3.6% with DOACs and warfarin in atrial fibrillation and venous thromboembolisms "Real world" data taken from claims assessment and global registries At least 8 current global registries evaluating warfarin and DOACs "Major bleeding complications with oral anticoagulation in non-valvular atrial fibrillation" Total of 2418 of 54321 patients (4.5%) experienced major bleeding event New Hanover Regional Medical Center

