

Anticoagulant therapy in non-valvular AF

Contraindications



Grey area

Exclusion criteria

- RE-LY** dabigatran vs warfarin, Am Heart J 2009
- ROCKET AF** rivaroxaban vs warfarin, Am Heart 2010
- ARISTOTLE** apixaban vs warfarin, Am Heart J 2010
- ENGAGE AF** edoxaban vs warfarin, Am Heart J 2010

NOACs trials - Exclusion criteria

Chronic anemia

Hb level

RE-LY < **10** g/dL

ROCKET AF < **10** g/dL

ARISTOTLE < **9** g/dL

ENGAGE AF < **10** g/dL

4 NOACs trials

Conditions associated with increased risk of bleeding

Exclusion criteria - Agreement

- **Hemorrhagic disorder or bleeding diathesis**
- **History of intracranial, intraocular, spinal, retroperitoneal or intra-articular bleeding**

4 NOACs trials - Exclusion criteria

Conditions associated with increased risk of bleeding

	RE-LY	Rocket AF	Aristotle	Engage AF
Gastrointest. bleeding	< 1 yr	< 6 m	ϕ	< 1 yr
Active ulcer (gastroduodenal)	< 30 d	/	ϕ	< 1 yr
Major surgery Severe trauma	< 30 d	< 30 d	ϕ	< 10 d

Increased bleeding risk believed to be a contraindication to oral anticoagulant ϕ

More than half of major hemorrhages during long-term anticoagulant therapy have GI origin

Majeed A et al, Circulation 2013

Risk of GI bleeding with long-term warfarin use

0.3 - 4.5% per year

Varying definitions of GI bleeding across studies may contribute to wide range of bleeding rates

Schelleman H et al, PLoS One 2011

Coleman CI et al, Int J Clin Pract 2012

Management of antithrombotic therapy after bleeding in patients with coronary artery disease and/or atrial fibrillation: **expert consensus paper** of the ESC Working Group on Thrombosis

Halvorsen S et al, Eur Heart J 2017

«In the presence of a clear indication, VKA therapy should be resumed within 1 week following major GI bleeding»

Patients with major GI bleeding

Factors favouring withholding of anticoagulation

- Unidentifiable site of bleeding
- Multiple angiodysplasias in the GI tract
- No reversible/treatable cause?
- Bleeding during treatment interruption
- Need for dual antiplatelet therapy after PCI
- Older age

NO



**Re-initiate NOACs as early as possible
(after 4-7 days)**