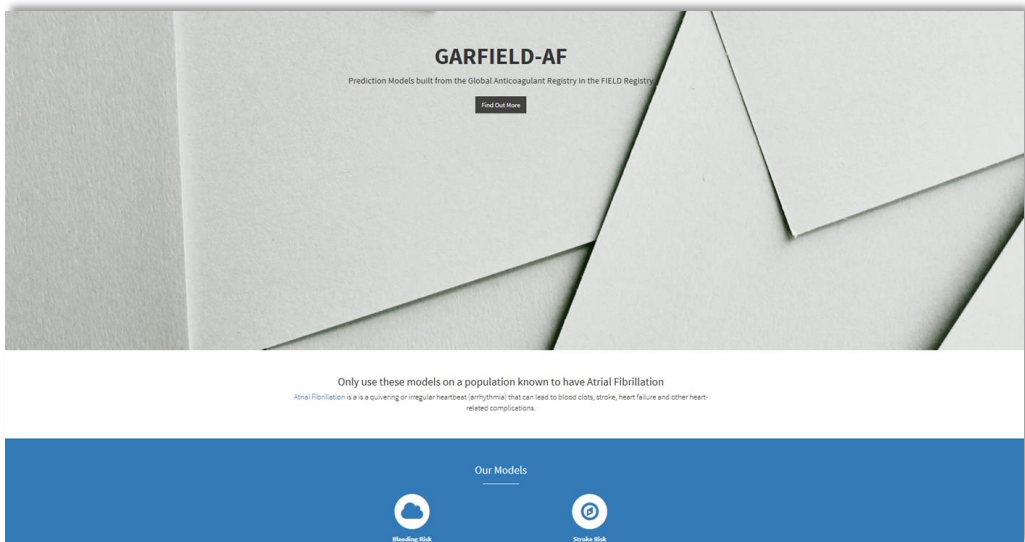


The GARFIELD-AF Score



What is the GARFIELD-AF Score?

- A novel computer-generated machine learning risk model that predicts all-cause mortality, ischaemic stroke/systemic embolism (SE) and haemorrhagic stroke/major bleeding in low-risk atrial fibrillation (AF) patients

Why is a new score needed?

- Real-world data from the GARFIELD-AF registry demonstrate that around half of low-risk patients are receiving often unnecessary anticoagulation treatment
- A more accurate and user-friendly method is needed to assess patients according to their risk of death, stroke and major bleeding to help physician decisions on anticoagulation treatment
- Appropriately prescribed therapy can help reduce the incidence of stroke in AF patients

How was it developed?

The GARFIELD-AF Score was calculated using a computer-generated (machine learning) risk modelling approach, which included a more comprehensive factor inclusion compared with CHA₂DS₂-VASc

Models were trained on indicators for three events

- all-cause mortality
- ischaemic stroke/thromboembolism
- haemorrhagic stroke/major bleed

The performance was compared with CHA₂DS₂-VASc in patients with a low risk of stroke

What did the model demonstrate in low risk patients?

Performance measure	Events	GARFIELD-AF Score	CHA ₂ DS ₂ -VASc
C statistic	All-cause mortality	0.72	0.56
	Ischaemic stroke/thromboembolism	0.62	0.56
	Haemorrhagic stroke/major bleed	0.72	0.57

- The design of the GARFIELD-AF Score was based on 38,984 patients enrolled in GARFIELD-AF between 2010 and 2015 for the listed events that occurred one year after enrolment

What are the next steps?

- A simplified GARFIELD-AF Score is under development for web-based and mobile device applications, which may help physicians assess the appropriateness of anticoagulation in low-risk patients
- The new GARFIELD-AF website (www.garfieldregistry.org) will include ongoing updates regarding the score

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