# One-year effectiveness and safety outcomes of edoxaban treatment in Chinese patients with atrial fibrillation: First snapshot of more than 4,800 patients from the ETNA-AF-China study

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# BACKGROUND

- Direct oral anticoagulants (DOACs) have become the first-line therapy to prevent ischaemic stroke and systemic embolism Overall, 4822 patients with AF were treated with edoxaban (60 mg once daily (OD): (SE) in patients with atrial fibrillation  $(AF)^{1,2,3}$ n=2614; 30 mg OD: n=2208) at BL (**Table 1**)
- Edoxaban, a direct factor Xa inhibitor, is globally approved for The mean (SD) age of the overall patient population was 70.3 (9.5) years,  $CHA_2DS_2$ stroke prevention in AF patients basing on non-inferior VASc and HAS-BLED scores were 2.9 (1.4), 1.7 (1.0), with creatinine clearance efficacy and superior safety over warfarin showed in pivotal (CrCl) of 71.2 (27.7) mL/min (**Table 1**) randomized clinical trial, ENGAGE AF-TIMI 48<sup>4</sup>
- Real-world data on safety profile of different DOACs are emerging<sup>5</sup>; however, very limited long-term studies report the outcomes of single DOAC in large cohorts of Chinese patients with AF
- ETNA-AF-China (Edoxaban Treatment in routiNe clinical prActice in patients with nonvalvular Atrial Fibrillation) is a multi-centre, prospective, observational study in unselected patients with AF in routine edoxaban treatment in China

# OBJECTIVE

- The primary objective of ETNA-AF-China (NCT04747496) was to evaluate safety of real-world edoxaban treatment in patients with AF for up to 2 years, with secondary objective of assessing effectiveness
- Here we firstly present the 1-year outcome data of edoxaban treatment in 5001 Chinese AF patients

# **METHODS**

- The study enrolled patients from 89 centres in four economic regions across Chinese Mainland since 2021
- Patients were followed-up every 3 ± 0.5 months for 1 year, and every  $6 \pm 1$  months until the end of the 2 years
- A total of 4822 patients were included in the full analysis set with dose of either 60 mg OD or 30 mg OD, and at least one follow-up. Patients who discontinued edoxaban were still followed-up for monitoring outcomes
- All key outcomes were adjudicated except for minor bleeding.



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# RESULTS

### Baseline demographics (BL) and clinical characteristics by edoxaban dose

Patients receiving 30 mg OD edoxaban at BL were older with higher CHA<sub>2</sub>DS<sub>2</sub>-VASc score, larger percentage of frail, and higher renal impairment (defined as CrCl ≤80 mL/min) (**Table 1**)

### **Clinical outcomes**

- Annualised rates for all-cause and cardiovascular death in the overall population were very low with 2.22%/year and 0.41%/year, respectively; nearly three times lower in those receiving 60 mg than 30 mg edoxaban (**Figure 1**)
- Annualised event rates for all stroke/SEE (1.03%/year) and ischemic stroke (0.60%/year) were similar between two dose groups (**Figure 1**)
- Overall, annualised rates for major bleeding (1.03%/year), ICH (0.18%/year), major gastrointestinal (GI) bleeding (0.48%/year) events were relatively low, and those on 60 mg dose experienced less above bleeding events (**Figure 1**)
- Cumulative survival analysis demonstrated a slow increase in time-to-first event curve of all-cause death; and from baseline to 1-year follow-up, significant lower events of all-cause death (log-rank p<0.001), major bleeding (p=0.002) in 60 mg vs 30 mg edoxaban groups (Figure 2)

# Table 1. Baseline demographic and clinical characteristics

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Characteristics, n (%) or mean (SD)	Overall (N=4822*)	Edoxaban 60 mg (N=2614)	Edoxaban 30 mg (N=2208)
Age	70.3 (9.5)	67.7 (9.1)	73.4 (9.0)
Male	2752 (57.1)	1789 (68.4)	963 (43.6)
Weight (kg)	68.0 (12.6)	73.3 (11.2)	61.7 (11.3)
CHA <sub>2</sub> DS <sub>2</sub> -VASc <sup>#</sup>	2.9 (1.4)	2.6 (1.3)	3.3 (1.4)
Mod. HAS-BLED <sup>#</sup>	1.7 (1.0)	1.5 (1.0)	2.0 (0.9)
Uncontrolled hypertension episode	737 (15.3)	403 (15.4)	334 (15.1)
Frailty	307 (6.4)	89 (3.4)	218 (9.9)
Serum creatinine (mg/dL)	0.95 (0.3)	0.91 (0.3)	0.99 (0.4)
Creatinine clearance (mL/min)	71.2 (27.7)	81.6 (26.8)	59.5 (23.7)
Renal impairment <sup>¶</sup>	2674 (55.5)	1122 (42.9)	1552 (70.3)
Renal disease reported by investigator	664 (13.8)	272 (10.4)	392 (17.8)
Recommended doses§	3216 (77.5)	1770 (83.6)	1446 (71.1)

\*FAS included patients with baseline data for doses/frequencies of 60 mg OD or 30 mg OD edoxaban, and recorded at least one follow-up record. #Derived variables of CHA2DS2-VASc score and HAS-BLED score. HAS-BLED score was calculated without 'labile INR', the renal impairment item was using derived instead of investigator reported. +CrCl calculation was based on CG formula. Renal impairment was derived and renal disease was reported by investigator. <sup>§</sup>Recommended doses was calculated on percentage of judgeable patients. CHA2DS2-VASc: CHF history, hypertension, elderly, diabetes mellitus, stroke (TIA, SEE) history, vascular disease (PAD, MI-STEMI, MI-NSTEMI), female; HAS-BLED: hypertension, abnormal renal function, abnormal liver function, stroke history, bleeding, elderly, drugs, alcohol abuse; CrCl, creatinine clearance; CV, Cardiovascular; GI, gastrointestinal; ICH, intracranial haemorrhage; SEE, systemic embolic event; TIA, transient ischaemic attack; SD, standard deviation.

• Low incidences of major bleeding, notably ICH, major GI bleeding, any stroke/SEE and CV death were observed in unselected 4822

• In routine care of Chinese AF patients, lower death and major bleeding event rates observed with edoxaban 60 mg were potentially due to the younger population, and lower CHA<sub>2</sub>DS<sub>2</sub>-VASc, HAS-BLED scores, less frailty

• These findings confirm the effectiveness and safety of edoxaban use in China. More data on the association with dose recommendation and outcomes, predictors of death, bleeding events in this large Chinese AF populations will be investigated further



Major Bleeding \*was not adjudicated minor events; \*included haemorrhagic stroke or epidural/subdural haematoma

### Figure 2. KM evaluation of 1-year clinical outcomes in the overall population and different dose groups

Outcome events in the overall population



### Time-to-first stroke/SEE event in the overall population and edoxaban dose at BL



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CV, Cardiovascular; GI, gastrointestinal; ICH, intracranial haemorrhage; SEE, systemic embolic event; TIA, transient ischaemic attack.





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