

Intracranial Haemorrhage in Patients With Non-Cardioembolic Ischaemic Stroke or High-Risk TIA: Insights from the OCEANIC-STROKE Randomised Trial of Asundexian for Secondary Stroke Prevention



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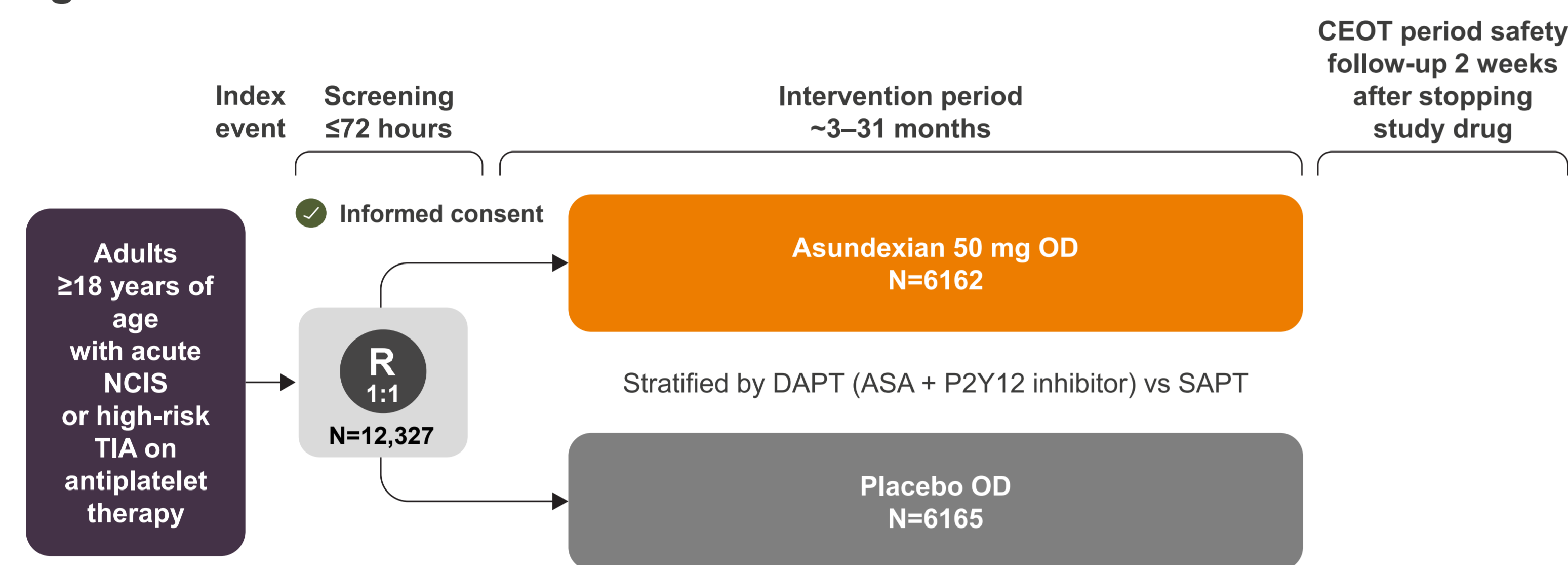
Background and Aims

- In OCEANIC-STROKE, asundexian 50 mg once daily reduced ischaemic stroke (IS) (cause-specific hazard ratio [csHR] 0.74; 95% confidence interval [CI]: 0.65, 0.84) without increasing intracranial haemorrhage (ICrH) compared with placebo.¹ We examined rates, outcomes, and predictors of ICrH and haemorrhagic stroke (HS).

Design

- We randomised 12,327 participants within 72 hours of acute non-cardioembolic IS or high-risk transient ischaemic attack (TIA) to asundexian or placebo (Figure 1). This analysis includes 12,254 participants who received ≥1 dose of assigned treatment. Incident ICrH was adjudicated by blinded adjudicators. ICrH outcome was assessed using the 90-day modified Rankin Scale (mRS); disabling ICrH or HS was defined as mRS ≥3 or an increase of ≥1 point if baseline mRS ≥3. Site investigators determined whether ICrH or HS was the cause of death.

Figure 1. Trial schema

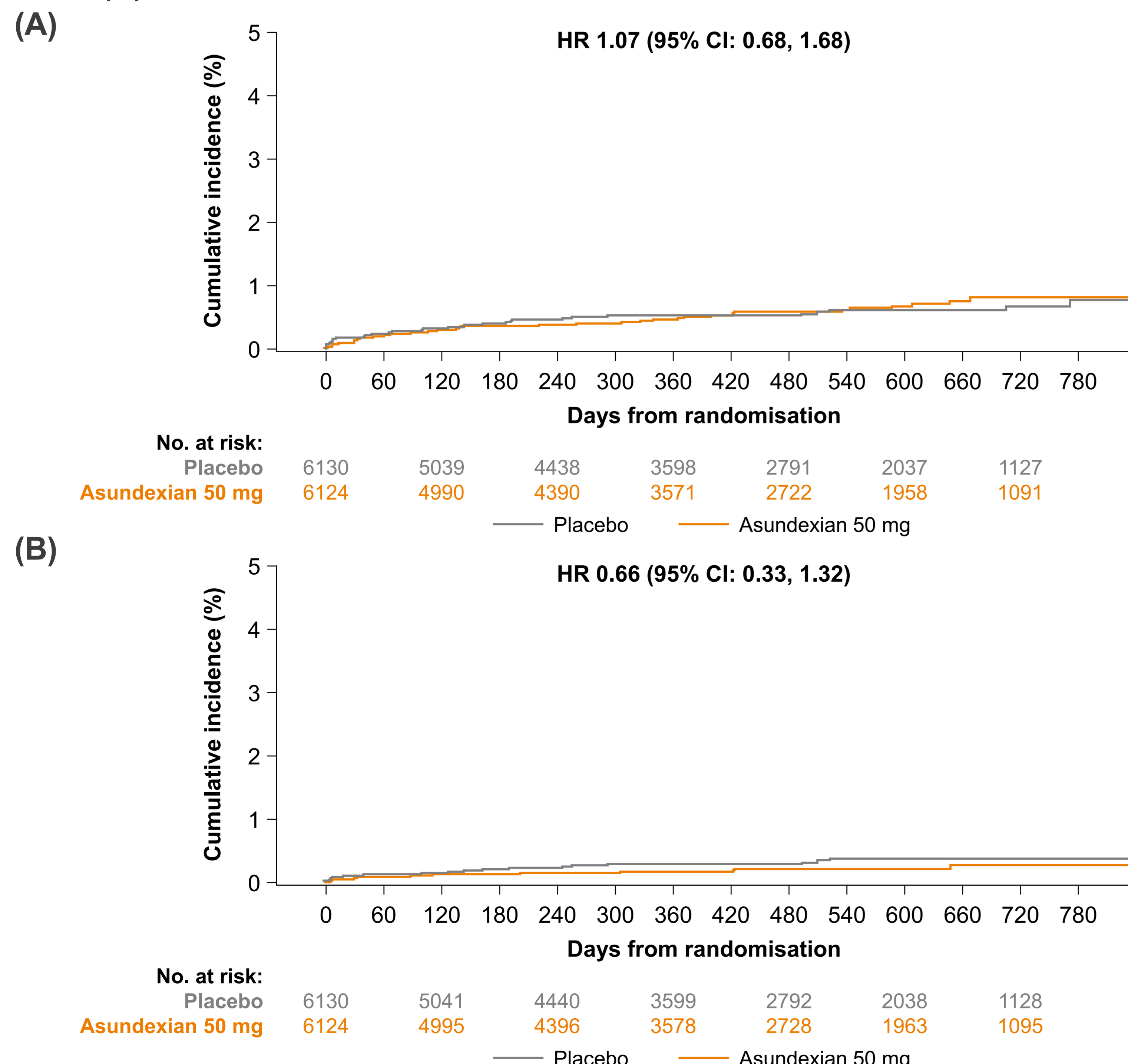


ASA, acetylsalicylic acid; CEOT, common end of treatment; DAPT, dual antiplatelet therapy; NCIS, non-cardioembolic ischaemic stroke; OD, once daily; P2Y12, purinergic receptor Y12; R, randomisation; SAPT, single antiplatelet therapy; TIA, transient ischaemic attack.

Results

- With 1.2 years median time on treatment, 74 ICrH occurred, including 33 HS. Annualised rates of ICrH were 0.5% for both asundexian and placebo (csHR 1.07; 95% CI: 0.68, 1.68), and, for HS, were 0.2% vs 0.3% (HR 0.66; 95% CI: 0.33, 1.32), respectively (Figure 2). Annualised rates of disabling ICrH were 0.3% for both (HR 0.87; 95% CI: 0.46, 1.63) and were 0.2% vs 0.1% (HR 2.23; 95% CI: 0.78, 6.42) for fatal ICrH. Corresponding rates for disabling (0.1% vs 0.2%; HR 0.68; 95% CI: 0.30, 1.50) and fatal HS (0.1% vs 0.1%; HR 1.42; 95% CI: 0.45, 4.46) were low and comparable between groups.

Figure 2. Cumulative incidence of intracranial haemorrhage (A) and haemorrhagic stroke (B)



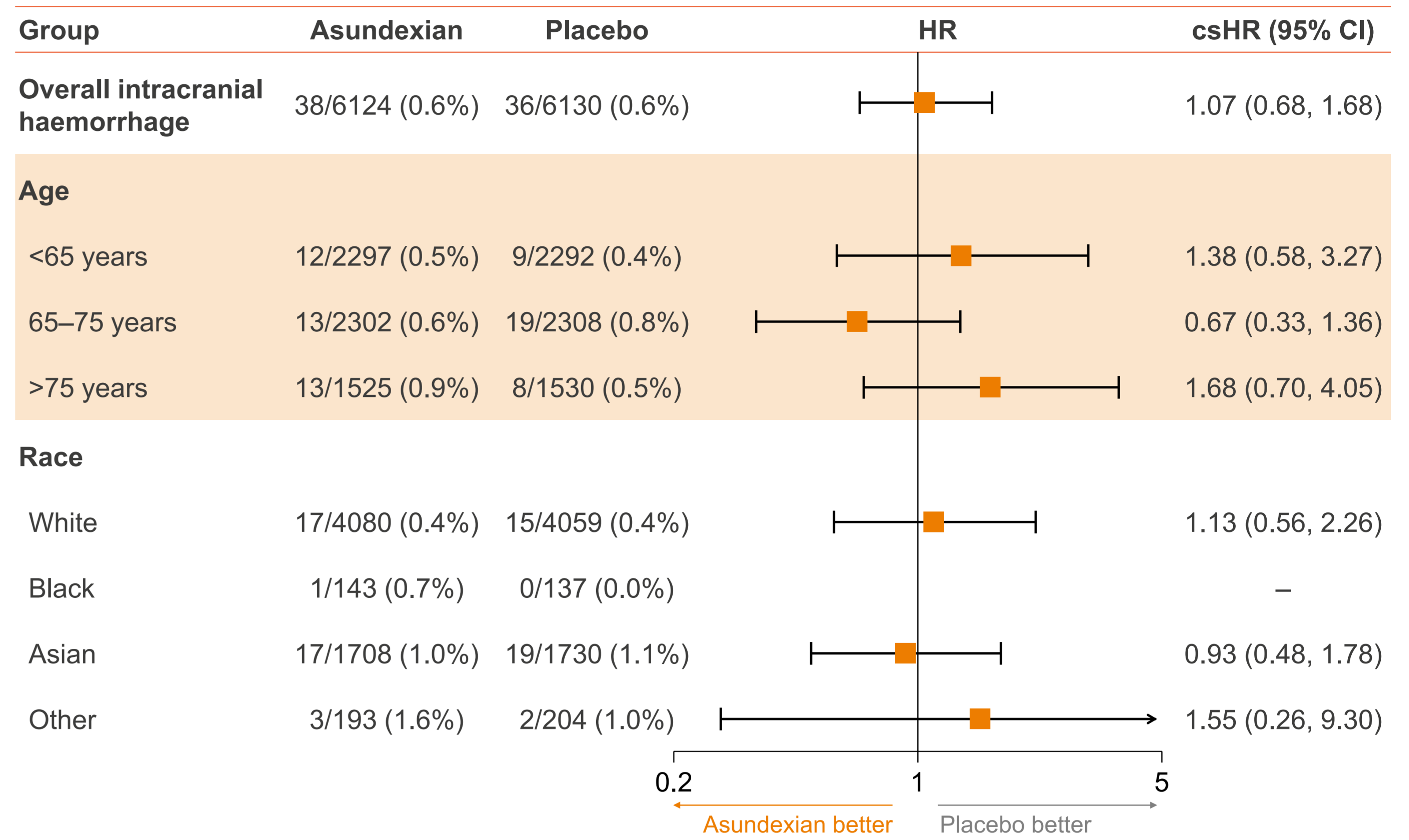
On-treatment + days effect, safety analysis set.

Data excludes 3 cases of ICrH occurring as a result of instrumentation or medical procedures.

CI, confidence interval; HR, hazard ratio; ICrH, intracranial haemorrhage.

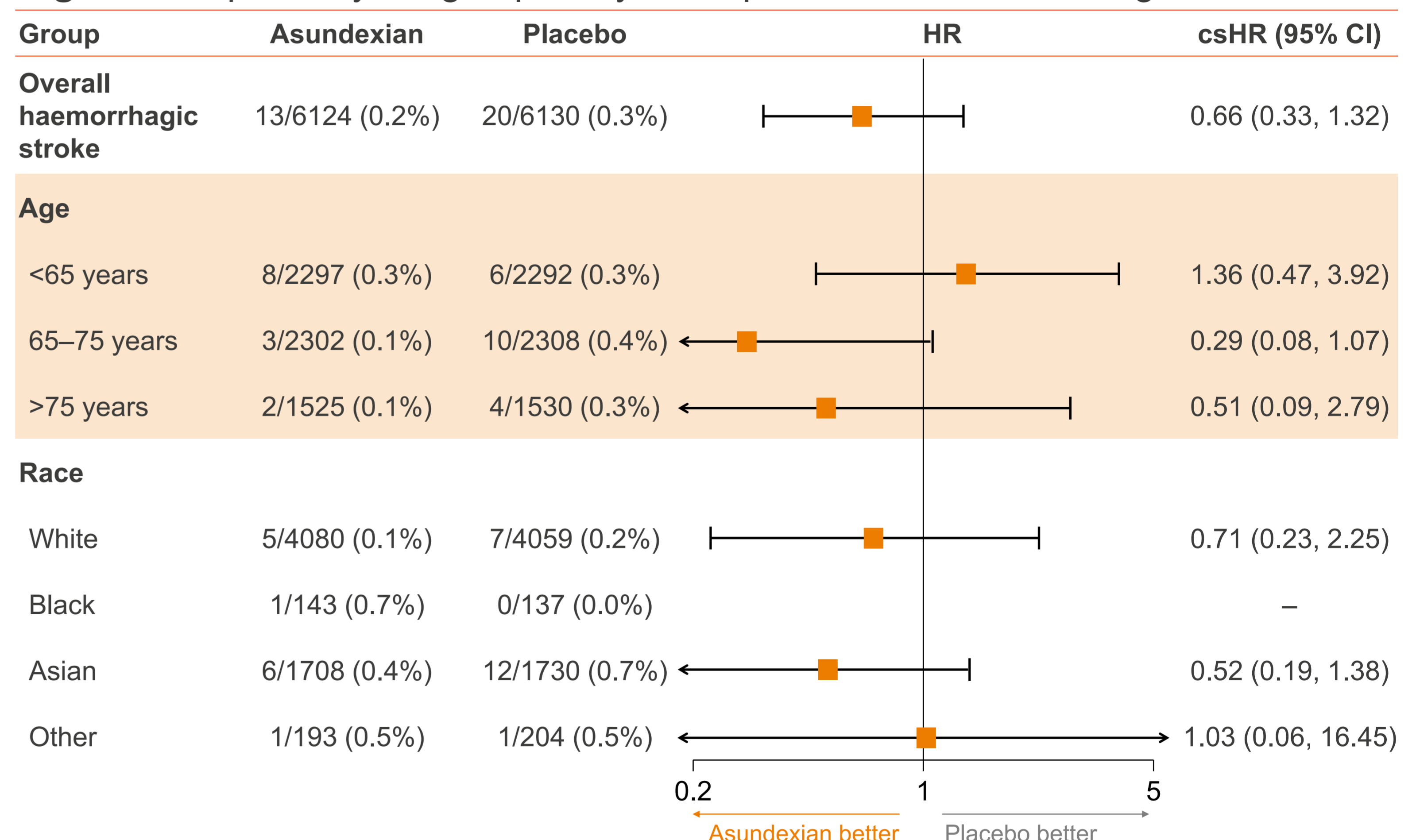
- Older age (HR per year 1.04; 95% CI 1.02, 1.06) and Asian race (vs White race; HR 2.29; 95% CI 1.37, 3.84) independently predicted ICrH. There was no heterogeneity in the treatment effect of asundexian on the outcomes of ICrH or HS in subgroup analyses of these variables (Figures 3 and 4).

Figure 3. Exploratory subgroup analyses of predictors of intracranial haemorrhage



CI, confidence interval; csHR, cause-specific hazard ratio.

Figure 4. Exploratory subgroup analyses of predictors of haemorrhagic stroke



CI, confidence interval; csHR, cause-specific hazard ratio.

Conclusions

- ICrH and HS were infrequent, with similar severity and outcomes between asundexian and placebo. Asundexian is a novel stroke prevention strategy that reduces IS without apparent increases in incident, disabling or fatal ICrH, including HS.

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Reference

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