

Conclusion



Colchicine does not significantly reduce perioperative atrial fibrillation (AF) or myocardial injury after non-cardiac surgery (MINS) in patients undergoing major non-cardiac thoracic surgery.

Impact on clinical practice



Despite no significant reduction in the co-primary outcomes with colchicine and an increased risk of non-infectious diarrhoea, several results provided an encouraging signal of benefit for colchicine to reduce the incidence of adverse CV outcomes in these patients.

Study objectives



The COP-AF trial tested the hypothesis that colchicine reduces the incidence of clinically important perioperative AF and MINS in patients undergoing major non-cardiac thoracic surgery.

Study population

Patients

- aged ≥ 55 years
- were undergoing major non-cardiac thoracic surgery.

Where?



11 countries



45 sites

Who and what?

3,209



patients randomised 1:1

Oral colchicine
0.5 mg twice daily



Placebo



First dose within 4 hours before surgery for a total of 10 days



Follow-up

14 days

Co-primary outcomes

Clinically important perioperative AF



Rate% 6.4%



Rate% 7.5%

Hazard ratio 0.85; 95% CI 0.65 to 1.10
absolute risk reduction (ARR) 1.1%;
95% CI -0.7 to 2.8, p=0.22

MINS



Rate% 18.3%



Rate% 20.3%

Hazard ratio 0.89; 95% CI 0.76 to 1.05
ARR 2.0%; 95% CI -0.8 to 4.7, p=0.16

Post-hoc analyses

Composite outcome of clinically important perioperative AF or MINS



Rate% 22.4%



Rate% 25.9%

Hazard ratio 0.84; 95% CI 0.73 to 0.97

Composite outcome of vascular mortality, nonfatal MINS, nonfatal stroke or clinically important perioperative AF



Rate% 22.6%



Rate% 26.4%

Hazard ratio 0.83; 95% CI, 0.72 to 0.96