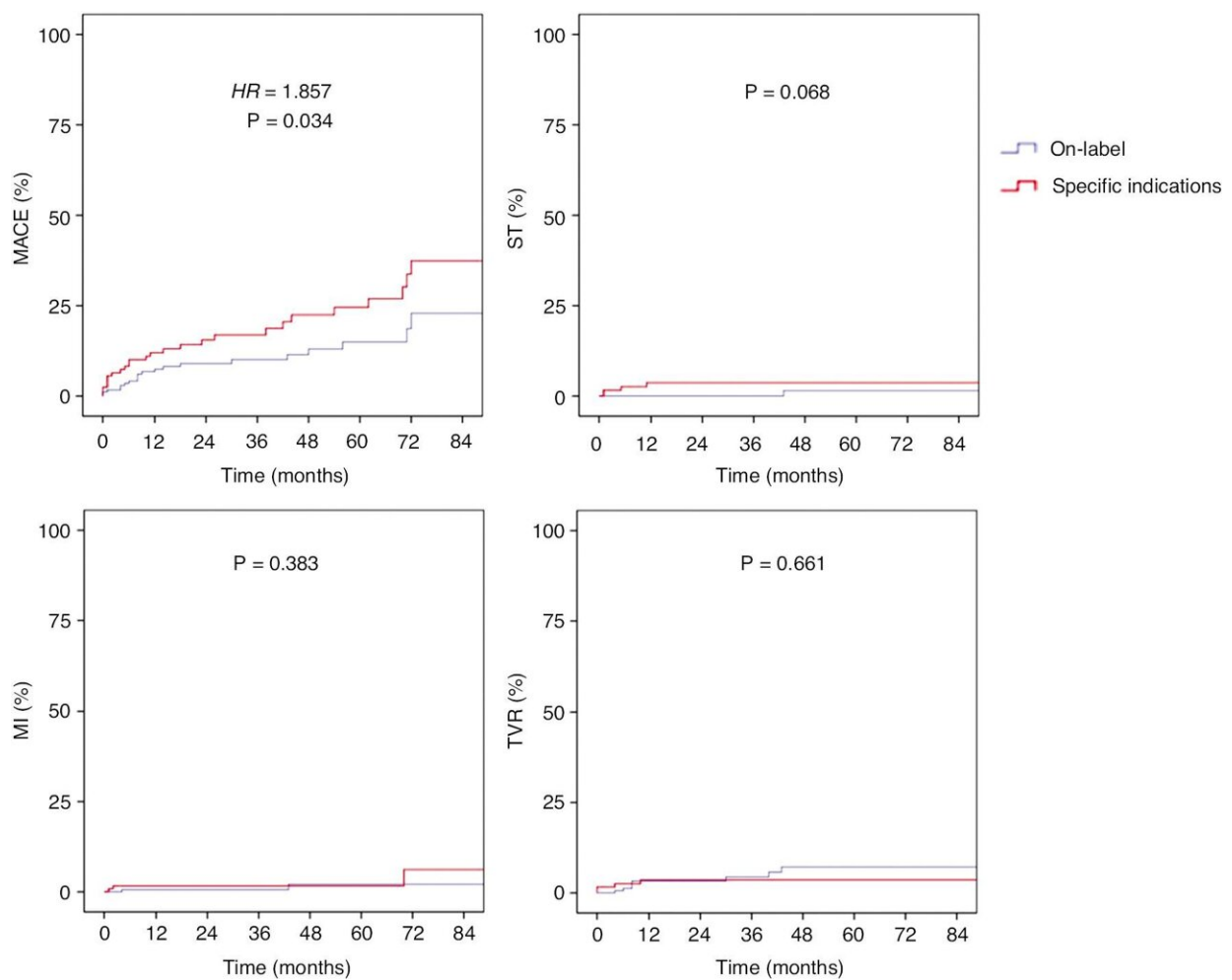


# Long-term clinical outcomes of coronary rotational atherectomy for specific indications

May 26 2023



Kaplan–Meier curves for MACCE between the specific indication and on-label groups. The P value was calculated with log-rank test. MACCE, major adverse cardiac and cerebral events; ST, stent thrombus; MI, myocardial infarction;

TVR, target vessel revascularization. Credit: *Cardiovascular Innovations and Applications* (2023). DOI: 10.15212/CVIA.2023.0016

Researchers compared the long-term outcomes between rotational atherectomy (RA) for specific indications and on-label use of RA for severely calcified coronary lesions.

Data for [patients](#) who underwent RA between 2015 and 2020 in a single-center registry were analyzed. The specific indication group included patients with ostial lesions, unprotected left main coronary artery stenosis, chronic total occlusions, stent ablation, angulated [lesions](#), and cardiac dysfunction, whereas patients with none of the above-mentioned characteristics were included in the on-label group. The primary endpoint was compared between groups.

A total of 176 patients in the on-label group and 125 patients in the specific indication group were included. Patient clinical characteristics were comparable between groups. The incidence of complications during the procedure was higher in the specific indication group than in the on-label group (20.0% vs. 10.8%,  $P=0.018$ ).

No significant difference was observed in in-hospital MACCE between groups (12.5% vs. 9.7%,  $P=0.392$ ). During 35 (10–57) months of follow-up, MACCE occurred in 46 patients (15.3%). The incidence of MACCE was much higher in the specific indication group than the on-label group (25.6% vs. 13.6%,  $P=0.034$ ).

RA for specific indications, compared with on-label use, had a higher incidence of complications during the procedure and poorer long-term clinical outcomes.

The research is published in the journal *Cardiovascular Innovations and Applications*.

**More information:** Cheng-fu Cao et al, Long-term Clinical Outcomes of Coronary Rotational Atherectomy for Specific Indications, *Cardiovascular Innovations and Applications* (2023). [DOI: 10.15212/CVIA.2023.0016](https://doi.org/10.15212/CVIA.2023.0016)

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