Impact of an antithrombotic therapy protocol after urgent coronary artery bypass-grafts: a retrospective study

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<u>Theory</u>	Background	<u>Reality</u>
European guidelines recommend a dual antiplatelet therapy (DAPT) after acute coronary syndrome (ACS*), regardless of the revascularization method ¹ .	<u>VS</u>	After coronary artery bypass graft (CABG), DAPT is not prescribed systematically mainly because of concerns about bleeding risk.

Aim

Can the dissemination of an internal protocol on post-operative anti-thrombotic therapy prescription improve European guidelines adherence in patients undergoing CABG after ACS?

Conclusion

Yes, guidelines adherence in terms of antithrombotic therapy in ACS patients after CABG increased significantly, without increasing bleeding events.



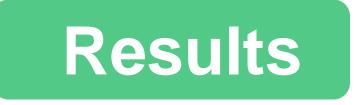
¹Dual antiplatelet therapy, ² Single antiplatelet therapy ³Oral anticoagulation, ⁴triple antithrombotic therapy

antithrombotic therapy protocol**

after urgent CABG

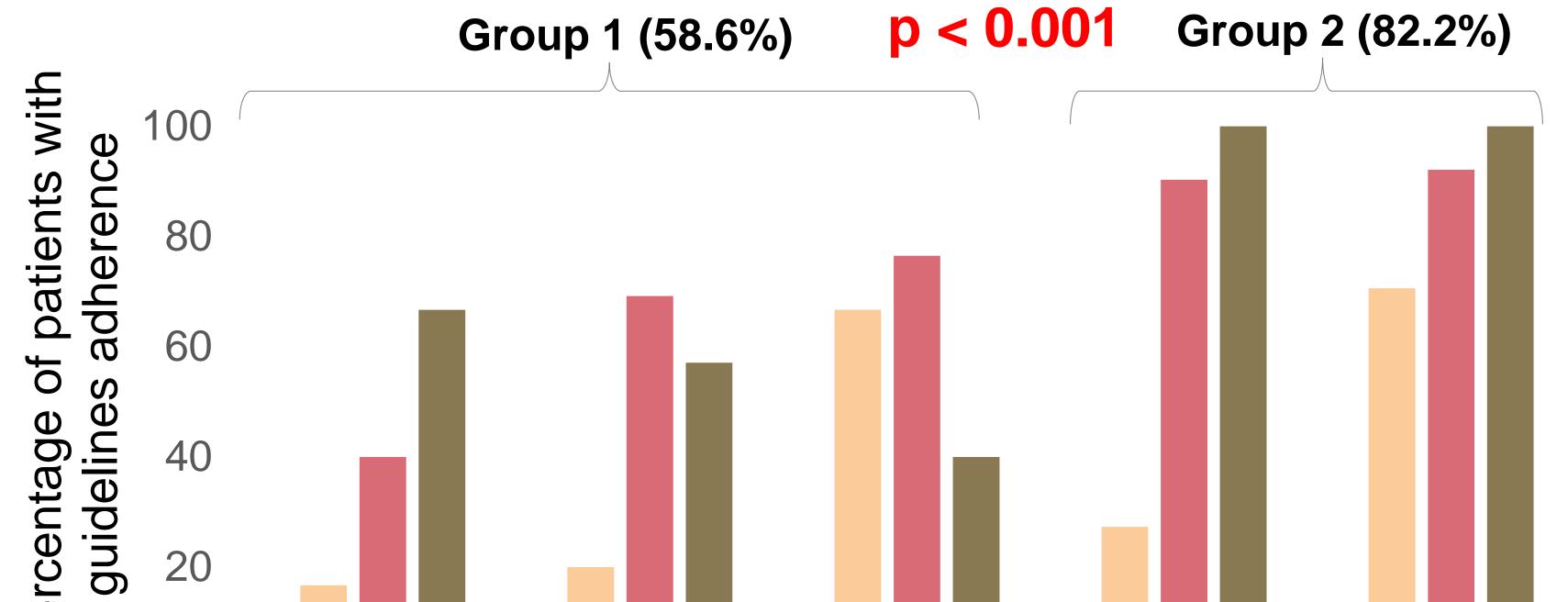
after surgery

**Interdisciplinary collaboration: one pharmacist, two cardiologists and one cardiac surgeon



Primary outcomes

Guidelines adherence in terms of antithrombotic therapy



Demographic results

- Total of **259 patients** included : \bullet men 83.8%, median age 67 [58;74] years
- Two groups: similar demographic \bullet characteristics except for smoking status and type of ACS* events

Secondary outcomes Major bleeding events

During the hospital stay:

0	2018	2019	2020	2021	2022
UA	16.7	20.0	66.7	27.3	70.6
NSTEMI	40.0	69.2	76.5	90.3	92.1
STEMI	66.7	57.1	40.0	100.0	100.0

- 9 (5.9%) in Group 1 vs
- 2 (1.9%) in Group 2 (p = 0.130)
- At 12 months after surgery:
 - 7 (4.6%) in Group 1 vs
 - 3 (2.8%) in Group 2 (p = 0.531)

Group 1 = 152 patients included vs Group 2 = 107 patients included

*Three presentation of ACS: unstable angina (UA), non st-elevation myocardial infarction (NSTEMI) and STEMI = st-elevation myocardial infarction

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Reference : M. Valgimigli et al, Eur Heart J, 2018, 39(3): p. 213-260

