# 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 <b>dual</b> <b>antiplatelet therapy (DAPT)</b> after <b>acute</b> <b>coronary syndrome (ACS*</b> ), regardless of the revascularization method <sup>1</sup> .	<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.



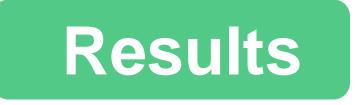
<sup>1</sup>Dual antiplatelet therapy, <sup>2</sup> Single antiplatelet therapy <sup>3</sup>Oral anticoagulation, <sup>4</sup>triple antithrombotic therapy

#### antithrombotic therapy protocol\*\*

after urgent CABG

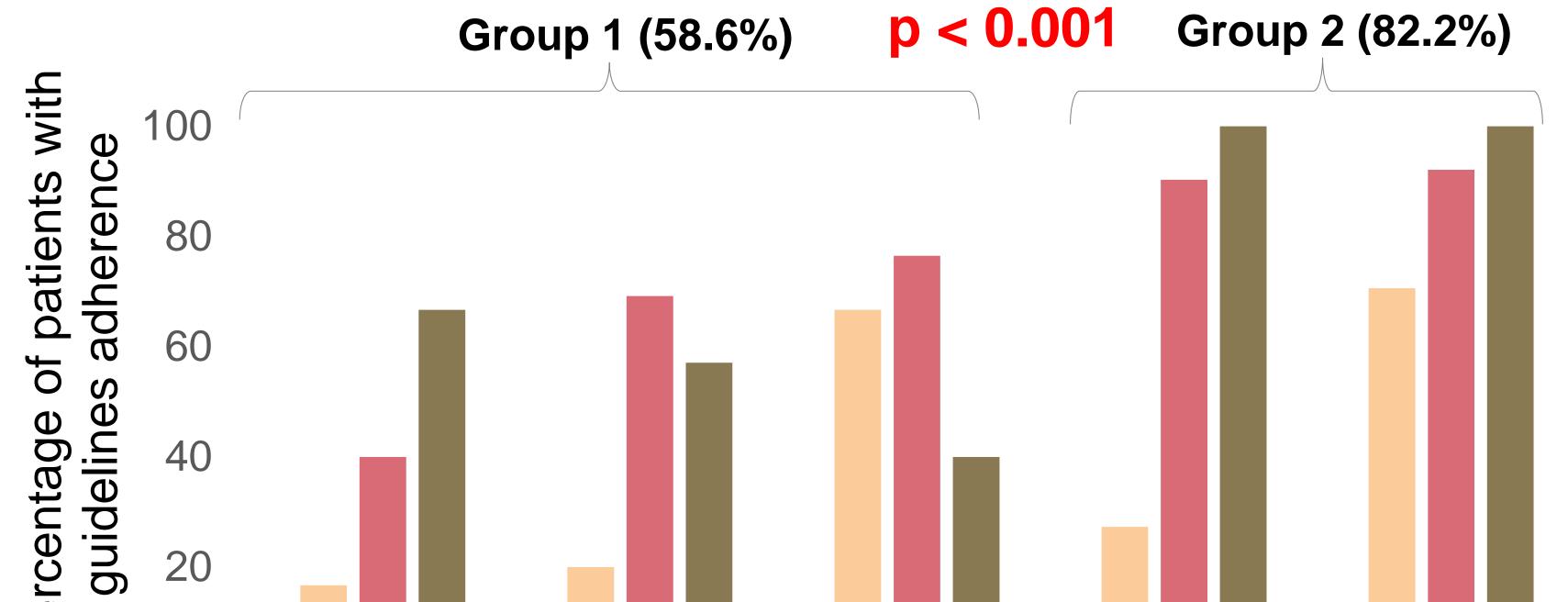
after surgery

\*\*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

