

INTERNATIONAL SOCIETY F CARDIOVASCULAR PHARMACOTHERAPY NNUAL MEETING rowne Plaza Hotel, Bucharest, Romania 27-29 October 2022

Appropriateness of antiplatelet pretreatment in non-ST-segment elevation acute coronary syndrome: differences between unstable angina and acute myocardial infarction

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Objectives:

To evaluate the appropriateness of antiplatelet pretreatment in patients with non-ST-segment elevation acute coronary syndrome (NSTE-ACS). To determine whether the appropriateness differs between patients with unstable angina and those with acute myocardial infarction.

Materials and Methods:

This prospective observational single-center study (June 2021-February 2022) included patients with NSTE-ACS scheduled to undergo coronary angiography. This research has been approved by an ethical committee.

We designed an algorithm to classify pretreatment as appropriate or inappropriate according to the angiographic findings of coronary arteries. We used multivariate analyses to identify variables associated with appropriate pretreatment.

Results:

We included 172 consecutive patients with NSTE-ACS (mean age 68.7 years; initial diagnosis: unstable angina in 29,7%, non-ST-segment elevation myocardial infarction (NSTEMI) in 65,1%, others in 5,2%).

Antiplatelet pretreatment was administered in 76.6% of the patients and the time from pretreatment and coronary angiography was >24 h in 50,9% of patients.

Drug pretreatment was classified as appropriate in 70,2% of all patients, in 78,2% of those with NSTEMI and in 47,2% of those with unstable angina (p<0,05).

Conclusions:

Antiplatelet pretreatment was appropriate in most patients with NSTEMI, but in less than half of those with unstable angina, suggesting a high rate of diagnostic error in unstable angina. Selecting appropriately the patients who really need pretreatment might avoid unnecessary drug side effects, invasive angiography as well as reduce hospital admissions and costs.



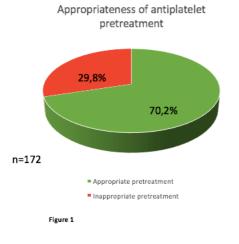
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Age	68,7
Gender (female)	24,4%
Active smoking	21,5%
Hypertension	72,7%
Diabetes Mellitus	39,5%
Dyslipidemia	69,8%
CKD	23,8%
Atrial Fibrillation/flutter	16,3%
Chronic coronary artery disease	37,2%
PCI	30,2%
CABG	7%
Ejection Fraction	
- >50%	77,3%
- 40-49%	14%
- <40%	8,7%

Chronic antithrombotic therapy	
- None	41,9%
- SAPT	30,8%
- DAPT	16,3%
- 0AC	8,1%
- OAC+SAPT	2,9%
- Crussade score	31,9
- Grace score	111,9
Coronary angiography indication	
- Unstable angina	29,7%
- NSTEMI	65,1%
- Others (Tako-Tsubo syndrome,	5,3%
myocarditis)	
Coronary angiography acces	
- Radial	96,5%

to coronary angiography	
<24 h	49,1%
>24h	50,9%
in	100%
ing dose P2Y ₁₂ inhibitor	
None	23,4%
Clopidogrel 300 mgs	12,3%
Clopidogrel 600 mgs	15,2%
Ticagrelor 180 mgs	49,1%
hap during PCI	10%
ban during PCI	10%
	in ng dose P2Y12 inhibitor None Clopidogrel 300 mgs Clopidogrel 600 mgs

<u>Table</u> 1



Appropriateness pretreatment differences between UA and NSTEMI

