STUDY ON THE IN-HOSPITAL TREATMENT OF PATIENTS WITH NON-ST ELEVATION MYOCARDIAL INFARCTION

INFARCTION REGISTRY DATA



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HISTORY

- During the past years, the treatments of infarction with ST elevation (STEMI) and with non-ST elevation (NSTEMI) have been performed differently.
- In case of STEMI, the optimal treatment is the early revascularisation, while in case of NSTEMI, the treatment strategy is based on risk stratification (GRACE score and others).



GRACE (Global Registry of Acute Coronary Events)

Giaba	<u>FR</u>	CE	ACS F	Risk	Model
		oital/to 6 months)	At Discharge (to	6 months	
Age	50-59	•	Cardiac arre	st at adm	ission
HR	70-89	•	☑ST-segment ☑Elevated car		
SBP	140-159		Probability of	Death	Death or MI
Creat.	71-105	•	In-hospital	3%	20%
CHF	II (rales an	d/or JVD) 🔹	To 6 months	6%	31%
	US Units			Reset	



Non STE-ACS: In-hospital Mortality

Risk Category (tertiles)	GRACE Risk Score	Probability of Death In-hospital (%)
Low	1-108	<1
Intermediate	109-140	1-3
High	141-372	>3

Non STE-ACS: 6 Month Post-discharge Mortality

Risk Category (tertiles)	GRACE Risk Score	Probability of Death Post-discharge to 6 Months (%)
Low	1-88	<3
Intermediate	89-118	3-8
High	119-263	>8

GOAL OF THE STUDY:

METHOD:

 The examination of previous history and the in-hospital course of NSTEMI patients in a prospective study.

• We examined the invasive treatment of NSTEMI patients with high and low risk according to GRACE score.

In our ward, between the 1st January 2010 and the 31st December 2011, we registered 255 patients within the framework of the Infarction Registry.

GROUPS ACCORDING TO INFARCTION TYPE

During the above period we treated 255 patients with MI out of which 186 patients with NSTEMI





The indication of the heart catheterisation was made according to the clinical evaluation. However, in a retrospective way, we defined the GRACE score of the patients. Following this, we compared the clinical decisions to the score values.

RESULTS



The mean age of the 186 patients treated because of NSTEMI was: 77.9+/-10.7* years

* - SD

DISEASE HISTORY DATA (NSTEMI)



 Out of 186 NSTEMI patients 70 (37.6%) were treated with coronary intervention during their in-hospital treatment.

 However, based on their
 GRACE scores, 158 patients (84.9%) turned out to have high risk profile.



WE ANALYSED IN DETAIL THE CAUSES OF THE ABSENCE OF CORONAROGRAPHY:

- Tumor: 7 cases
- Dementia: 29 cases
- Patients who didn't agree with the examination: 8 cases
- Active gastrointestinal bleeding: 12 cases
- Not known: 25 cases

MORTALITY IN HOSPITAL:

ALL NSTEMI PATIENTS MORTALITY: 10,7 %



Invasive Group Mortality 4,3 % Conservative Group Mortality 14, 7%

CONCLUSION:

- In case of our patients treated because of NSTEMI, according to the clinical evaluation only the half of the high-risk patients were treated with revascularisation during hospitalization.
- In the revascularisation group, we observed a significantly lower hospital mortality (4,3% vs 14,7%).
 (Chi² = 4.89 p = 0.0269)
- 3. The definition of the GRACE score is needed for each patient during the clinical decision-making, because it is an important tool for prognostic evaluation.

THANK YOU FOR YOUR ATTENTION

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