

P2033 : What will change with the new universal definitions of myocardial infarction? A report from the AMIS Plus registry

Authors:

Urban (Meyrin-Geneva /Switzerland), **Radovanovic** (Zurich /Switzerland), **Erne** (Luzern /Switzerland), **Windecker** (Bern /Switzerland), **Pedrazzini** (Lugano /Switzerland), **Stauffer** (Fribourg /Switzerland), **Bertel** (Zurich /Switzerland)

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Background: In 2007, international recommendations were published that lower the threshold of serum biomarkers for making the diagnosis of myocardial infarction (MI). To assess the impact of the new cutoff values, we retrospectively analyzed 9190 patients from 63 hospitals with reported peak troponin values included between 2001 and 2007 in the Swiss AMIS Plus registry.

Methods: Patients with a suitable clinical presentation and/or ECG changes were classified as belonging to the "classic" (elevated CK, CKMB or troponin according to the individual hospital standards) or "new" (TnT > 0.01 µg/l or TnI > 0.01-0.07 µg/l) MI groups. Patients with no elevation of troponin above the "new" cutoff values were classified as unstable angina. Starting in 2005, post-discharge follow-up information was collected for all patients who provided consent from a subgroup of 44 hospitals.

Results:

Conclusions: Patients with ACS and minimal elevation of serum troponin (= "new" MI) represent ca. 5% of all MI patients. They have smaller MI's, less aggressive treatment, less early complications, and a better in-hospital prognosis than patients with higher serum biomarker levels. After discharge, however, their prognosis currently appears no different from that of patients with a "classic" MI event.



	"Classic" MI (n=8701)	"New" MI (n=489)	
Age	66.4±13.7 y	67.2±13.7 y	NS
Male gender	6140/8701 (70.6%)	351/489 (71.8%)	NS
Prior history of CAD	2845/7470 (38.1%)	254/447 (56.8%)	<0.0001
Diabetes	1683/8333 (20.2%)	110/467 (23.6%)	NS
STEMI or LBBB at admission	4694/8688 (54.0%)	115/488 (23.6%)	<0.001
PCI within 24h from admission	4970/8644 (57.5%)	186/487 (38.2)	<0.001
CABG done or planned	518/8522 (6.1%)	30/473 (6.3%)	NS
Cardiogenic shock	544/8650 (6.3%)	16/480 (3.3)	<0.001
In-hospital mortality	579/8701 (6.7%)	17/489 (3.5%)	0.004
3 months mortality	34/2122 (1.6%)	1/96 (1.0%)	NS
12 months mortality	56/1399 (4.0%)	4/71 (5.6%)	NS