

## Copeptin proAVP

Early and Safe rule-out  
of myocardial infarction

**Copeptin**, a 39-amino acid glycopeptide that comprises the C-terminal part of the arginine vasopressin (AVP) precursor is a stable and sensitive surrogate marker for circulating AVP or anti-diuretic hormone (ADH).

As a marker of acute endogenous stress, Copeptin is increased immediately after onset of Acute Myocardial Infarction and then steadily decreases.<sup>1</sup>



### Combined Copeptin and Troponin strategy:

In contrast, Troponin is a specific marker for myocardial necrosis. Because of its delayed increase after Acute Myocardial Infarction (AMI) onset ("Troponin-blind" period) a prolonged patient monitoring including serial blood sampling is necessary.

A dual marker strategy combining Copeptin and Troponin (whether conventional or high-sensitivity) benefits from the integration of complementary information provided by pathophysiologically different processes and results in the highest Negative Predictive Value (NPV) for the diagnosis of AMI.<sup>2</sup>

### Safety and Efficacy of the Strategy:

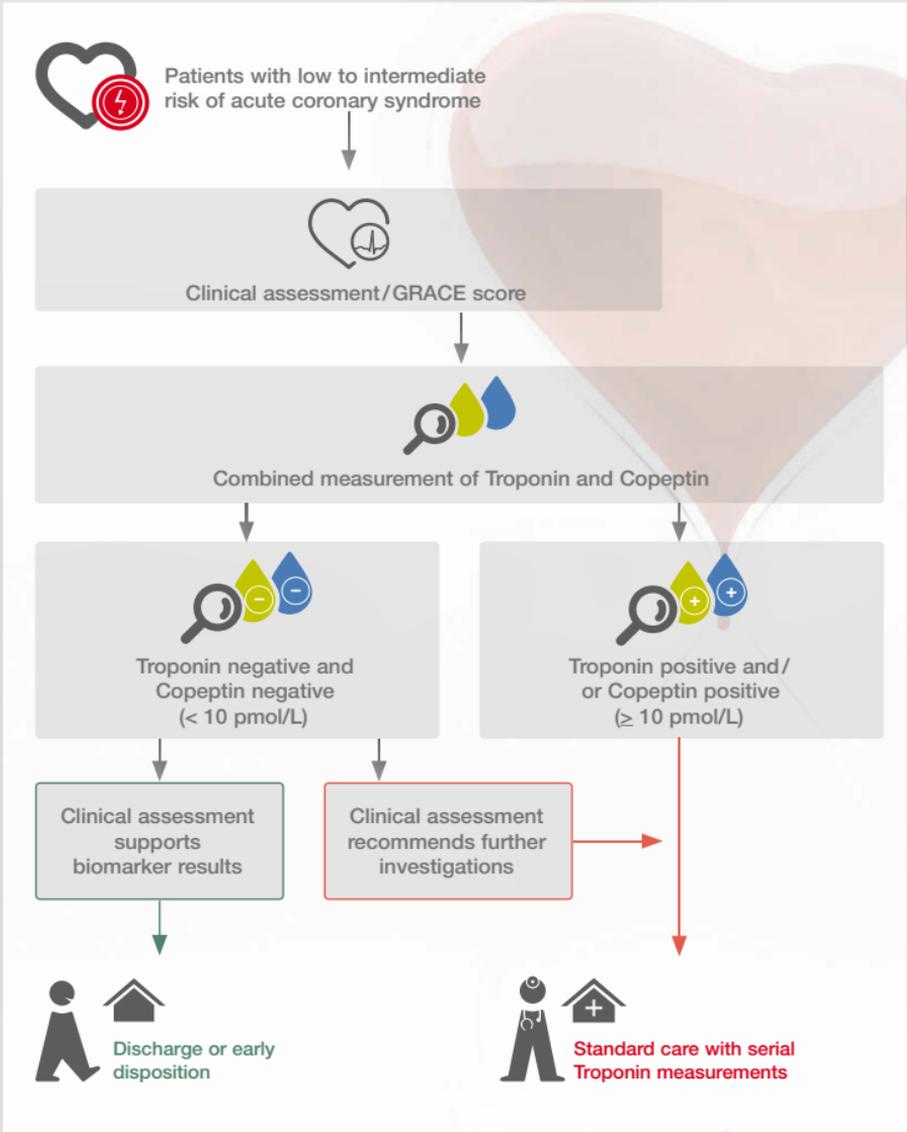
As demonstrated in the Biomarker in Cardiology (BIC)-8 interventional clinical trial, combining the biomarkers Thermo Scientific™ B·R·A·H·M·S™ Copeptin proAVP and Troponin provides a safe and effective procedure to rule out AMI after the first blood draw and better manage overcrowded emergency departments.<sup>3</sup>

**This strategy is now recommended in the 2015 ESC guidelines<sup>3</sup> for the management of acute coronary syndrome in patients presenting without persistent ST-segment elevation.<sup>4</sup>**

*The suggested Copeptin cut-off to minimize the number of false negative patients and obtain the highest NPV for the diagnosis of AMI is 10 pmol/L.<sup>3</sup>*

#### References:

1. Morgenthaler NG et al., Clin Chem. 2006 Jan;52(1):112-9
2. Lipinski MJ. et al., Am J Cardiol. 2014 May 1;113(9):1581-91
3. Möckel M et al., Eur Heart J. 2015 Feb 7;36(6):369-76
4. Roffi et al., Eur Heart J. 2016 Jan 14;37(3):267-315



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