



*Vidas*



**High sensitive  
Troponin I**

Delivering a diagnosis  
**in only 2 hours**



BIOMÉRIEUX

PIONEERING DIAGNOSTICS

## Did you know?



Worldwide **16 million** people die annually of **cardiovascular diseases**, specifically heart attacks or stroke <sup>(1)</sup>



**Chest pain** is among the **top 10** reasons to visit an emergency department (ED), accounting for about 5% of all ED visits <sup>(2)</sup>



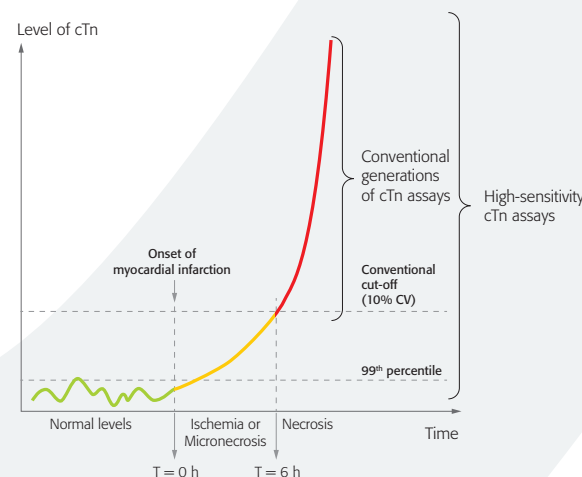
Expected prevalence of acute myocardial infarction (MI) in chest pain patients in the ED <sup>(3)</sup>

**5-10%**  
**STEMI\***

**15-20%**  
**NSTEMI\*\***

## Optimize the management of ACS\*\*\* with high sensitivity troponins <sup>(4)</sup>

- New generation of **highly sensitive troponin (cTn) assays** allows **earlier detection of acute MI**, with shortening of time window for serial measurement to 3 hours.
- cTn has become a continuous variable with accurate measurement below the 99<sup>th</sup> percentile as well as small absolute changes within one or two hours. This has enabled development of **algorithms for reliable rule-out and rule-in of acute MI within 2 hours**.



### Diagnosis

- Mandatory tool, in addition to clinical assessment and ECG, to make a definitive diagnosis of acute MI.
- Serial measurement to differentiate acute from chronic cardiac myocyte damage.

### Risk stratification

Additional tool in risk stratification to guide therapeutic decision making.

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## Deliver high performance

### Intended use:

- Aid in the **diagnosis of myocardial infarction**.
- Aid in the **risk stratification** of patients with symptoms suggestive of ACS with respect to relative risk of all-cause mortality and major adverse cardiac events (MACE) consisting of MI and revascularization, at 30 days.

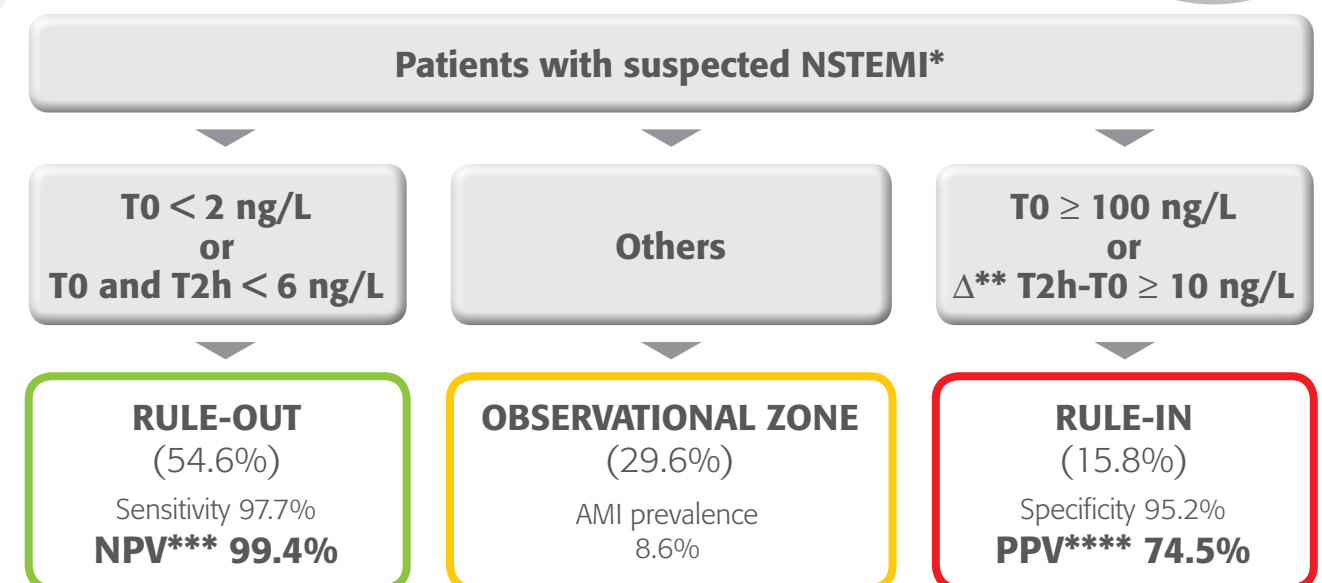


The **99<sup>th</sup>** percentile has been defined at 19 ng/L



At the 99<sup>th</sup> percentile

## Accelerate patient triage with high diagnostic accuracy



- Algorithm based on admission values and absolute changes within the first 2 hours.
- Delivers a diagnosis - safe rule-out and accurate rule-in - of acute MI (NSTEMI) in the vast majority (70%) of suspected chest pain patients.
- Shortens the time needed to triage chest pain patients in the ED (will obviate the need for prolonged monitoring with frequent serial blood sampling).

\* ST – segment elevation myocardial infarction  
\*\* Non – ST – segment elevation myocardial infarction  
\*\*\* Acute Coronary Syndrome

\* Data from validation study in 592 patients  
\*\* Difference in cTn concentration

\*\*\* Negative Predictive Value  
\*\*\*\* Predictive Positive Value

# Vidas



Available on instruments of the VIDAS<sup>®</sup> family:  
VIDAS<sup>®</sup>, mini VIDAS<sup>®</sup> and VIDAS<sup>®</sup> 3

VIDAS <sup>®</sup> High sensitive Troponin I	
Reference number	415386
Tests / kit	60
Time to result	20 min
Sample type	Serum, Plasma (Li Hep)
Sample volume	200 µL
Units	ng/L
Measuring range	4.9 – 40 000 ng/L
Limit of quantification (LoQ)	2.9-4.9 ng/L
Limit of detection (LoD)	1.3-3.2 ng/L
Limit of blank (LoB)	0.0-1.9 ng/L
Precision (99 <sup>th</sup> percentile for the global healthy population)	19 ng/L ; CV = 7.0%
Calibrators & Controls frequency	28 days



## CARDIAC PANEL

**High sensitive Troponin I, NT-proBNP2, Galectin-3,  
CK-MB, Myoglobin, Digoxin**

### REFERENCES

1. Lozano R, *et al.* Lancet.2012;380:2095-128.
2. Bandstein N, *et al.* J Am Coll Cardiol. 2014;63:2569-78.
3. Mueller C, *et al.* Eur Heart J. 2015 Aug 29. pii: ehv409. [Epub ahead of print]
4. Roffi M, *et al.* Eur Heart J. 2015 Aug 29. pii: ehv320. [Epub ahead of print]



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