High sensitive Troponin I
Delivering a diagnosis in only 2 hours
**Did you know?**

Worldwide, 16 million people die annually of cardiovascular diseases, specifically heart attacks or stroke (1).

- **5-10%** STEMI*
- **15-20%** NSTEMI**

**Optimize the management of ACS*** with high sensitivity troponins (4)

- 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 99th 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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**Expected prevalence of acute myocardial infarction (MI) in chest pain patients in the ED (3)**

- **5-10%** STEMI*
- **15-20%** NSTEMI**

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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.

**Patients with suspected NSTEMI***

- **T0 < 2 ng/L or T0 ≤ 100 ng/L or ∆** T2h-T0 ≥ 10 ng/L**
- **T0 < 2 ng/L or T0 and T2h < 6 ng/L**
- **Others**

**OBSERVATIONAL ZONE**

- **29.6%**
- **AMI prevalence 8.6%**

**RULE-OUT**

- **54.6%**
- **Sensitivity 97.7%**
- **NPV*** 99.4%

**RULE-IN**

- **15.8%**
- **PPV**** 74.5%

**Accelerate patient triage with high diagnostic accuracy**

- **At the 99th percentile has been defined at 19 ng/L.**

**Worldwide 16 million people die annually of cardiovascular diseases, specifically heart attacks or stroke (1).**

Diagnosis

- 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).
Available on instruments of the VIDAS® family:
VIDAS®, mini VIDAS® and VIDAS® 3

<table>
<thead>
<tr>
<th>VIDAS® High sensitive Troponin I</th>
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<tbody>
<tr>
<td>Reference number</td>
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<td>Tests / kit</td>
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<td>Time to result</td>
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<td>Sample type</td>
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<td>Precision (99th percentile for the global healthy population)</td>
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<td>Calibrators &amp; Controls frequency</td>
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**REFERENCES**