



CHALLENGES

Early diagnosis and initiation of appropriate antibiotic therapy.3

The first hours are decisive.

RECOMENDATIONS FOR BIOMARKER TESTING

Procalcitonin (PCT)

- Early detection of sepsis
- Monitoring of response to treatment⁴
- Antibiotic stewardship: START or DISCONTINUE

Most of LRTIs are of viral origin.³⁶

Does your patient really need antibiotics?

Procalcitonin (PCT)

- Identify patients that would benefit from not starting antibiotic therapy
- Determine when it is safe to discontinue treatment

In acute heart failure. any delay in initiation of treatment increases mortality 15.

Prompt and adequate diagnosis is a clinical challenge.

NT-proBNP

- Diagnosis: Exclusion or confirmation of HF in patients with acute dyspnea and suspected acute HF¹⁶
- Prognosis and evaluation of response to therapy ¹⁷



Natriuretic peptides (NPs) are also considered as first-line tools for the diagnosis of chronic HF.

How can you quickly and safely exclude VTE in suspected outpatients?

D-Dimer

- Safe PE/DVT exclusion in suspected patients with low and intermediate PTP*
- Highly sensitive D-dimer with clinical assessment as first investigation step in patients with suspected VTE 9, 10, 11



In unprovoked VTE, D-Dimer is part of the HERDOO2 rule that identifies low-risk patients who can safely discontinue anticoagulants after short-term therapy.

Shortening diagnosis.

Timely and appropriate intervention.

So. AMI or not AMI?

Cardiac Troponins

- Distinction between NSTEMI and unstable angina 21
- Rapid rule-out and rule-in strategies including high-sensitivity assays ^{22,23}
- Recommended in all patients with suspected NSTE-ACS²¹

VIDAS® EMERGENCY PANEL



BECAUSE IT MAKES SENSE ON VIDAS®

All key emergency tests on a single instrument, allowing you to manage the STAT samples apart from your routine activity



No biotin interference _/_

tested up to 2,000 ng/mL

Rapid results. easy-to-use benchtop instrument

All-inclusive **kits,** limited calibrations and controls





High-quality and cost-effective diagnostic tests for rapid, safe and efficient patient triage

Discover bioMerieux range of clinical booklets for diagnostics support on https://www.biomerieux-diagnostics.com/clinician-booklets

	VIDAS® Emergency panel	
VIDAS® B.R.A.H.M.S PCT™	30450	60 tests
VIDAS® NT-proBNP2	30458	60 tests
VIDAS® High sensitive Troponin I	415386	60 tests
VIDAS® CK-MB	30421	30 tests
VIDAS® Myoglobin	30446	30 tests
VIDAS® D-DIMER EXCLUSION™ II	30455-02	60 tests
VIDAS® Protein C	30115	30 tests
VIDAS® vWF	30436	30 tests

Some of these reagents have not yet obtained regulatory clearance in some countries and some references may vary according the country.

₩.

Please contact vour local bioMérieux representative for further information and product availability.

Confidence.

Efficiency.

Convenience.

MYACUTECASE™



1. Liu, JAMA 2014. 2. Rudd KE et al., Global, regional, and national sepsis incidence and mortality, 1990–2017: analysis for the Global Burden of Disease Study, Lancet 2020; 395: 200–11. **3.** Kumar A. *et al.* Crit Care Med. 2006 Jun; 34(6):1589-96. **4.** Brunkhorst FM. Heinz 200-11. 3. Kumar A, et al. Crit Care Med. 2006. Jun; 34(6):1589-96. 4. Brunkhorst FM, Heinz U, Forycki ZF. Intensive Care Med 1998; 24:888-9. 5. WHO 6. Fleming-Dutra KE, et al. JAMA. 2016 May 3:315(17):1864-73. 7. Cohen AT, Agnelli G, Thromb Haemost. 2007; 98: 756-64. 8. http://www.worldthrombosisday.org (2015) 9. Huisman MV, Klok FA. J Thromb Haemost 2013;11:412-22. 10. Righini M, Perrier A, De Moerloose P, Bounameaux H, J Thromb Haemost 2008; 6: 1059-71. 11. Konstantinides SV, et al. Eur Heart J. 2014;35:3033-69, 3069a-3069k. 12. ??? P. Ponikowski et al. ESC Heart Failure 2014; 1: 4-25, ? M. R. Cowie et al. ESC Heart Failure 2014; 1: 110-145 13. Azad N, Lemay G. JGC. 2014;11(4):329-337. Available at: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4292097/. Last accessed August 2018 14. M. R. Cowie et al. ESC Heart Failure 2014; 1: 110-145 15. Matsue Y. et al. J Am Coll Cardiol. 2017; 99:3042-3051 16. Januzzi II. van Kimmenade R. et al. Eur Heart I. 2006: 27:330-7 2017; 69:3042-3051. **16.** Januzzi JL, van Kimmenade R, *et al*. Eur Heart J. 2006 ;27:330-7 2017; 95:3042-3051. 16. Janu2zi JL, van Kimmenade R, et al. Eur Heart J. 2006; 27:330-7.
17.Yancy CW, et al. JAm Coll Cardiol. 2017; 70:776-803.18. Roffink, et al. Eur Heart J. 2016; 37:267-315. 19. Mueller C, et al. Eur Heart J. 2015 Aug 29. pii: ehv409. 20. Nallamothu BK, Bradley EH, Krumholz HM. N Engl J Med. 2007;357:1631-8. 21. 2015 ESC guidelines 22. Mueller C, et al. Eur Heart J Acute Cardiovasc Care. 2017;6:218-222. 23. Möckel M, et al. Eur Heart J Acute Cardiovasc Care. 2017;6:212-217. 24. MOSES study. CCMjournal.org. 2017. 25. Inkoval et al. Citical Card Medicine. 46(5):2017. 28. Schust P. et al. Cockrago Database. Sust Peac. et al., Critical Care Medicine, 46(5)2017. 26. Schuetz P., et al. Cochrane Database Syst Rev 2017;10:CD007498. **27.** Schuetz P, *et al.* Lancet Infect Dis. 2017;13:73:3099(17):30592-3. **28.** VIDAS® D-DIMER EXCLUSION™ II Package insert. **29.** Righini M, *et al.* J Thromb YUNAS® O'DIMER EXCLUSION® II PAGRAGGE INSERT 29. Rightim M, et al. J Thromb Haemost. 2007;51869-97.
 All Hildebrandt P, et al. Eur Heart J. 2010;31:1881-9; Roberts E, et al. BMJ. 2015;350:h910.
 Ponikowski P, Voors AA, Anker SD, et al. Eur Heart J. 2016;37:2129-200.
 Manuzzi JL, et al. Circulation. 2007; 115:3103-10.
 VIDAS® High sensitive Troponin I Package insert.
 Eur Heart J. 2016;37:236-36. D D Creer et al. Thorax. 2006 Jan;61(1): 75-79.
 To-France E, Acute Renal Failure in Patients with Sepsis in School and Collaboration.



FREE iOS APP FOR OPTIMIZED USE AND

bioMérieux S.A. • 69280 Marcy l'Etoile • France • Tel.: + 33 (0)4 78 87 20 00 • Fax: +33 (0)4 78 87 20 90 www.biomerieux.com • www.biomerieux-diagnostics.com



WHEN TIME MATTERS

How do you rapidly and accurately identify life-threatening emergencies to initiate appropriate treatment?

• 5-10% STEMI | 15-20% NSTEMI 19

• NSTEMI: 13% mortality rate at 6 months 18

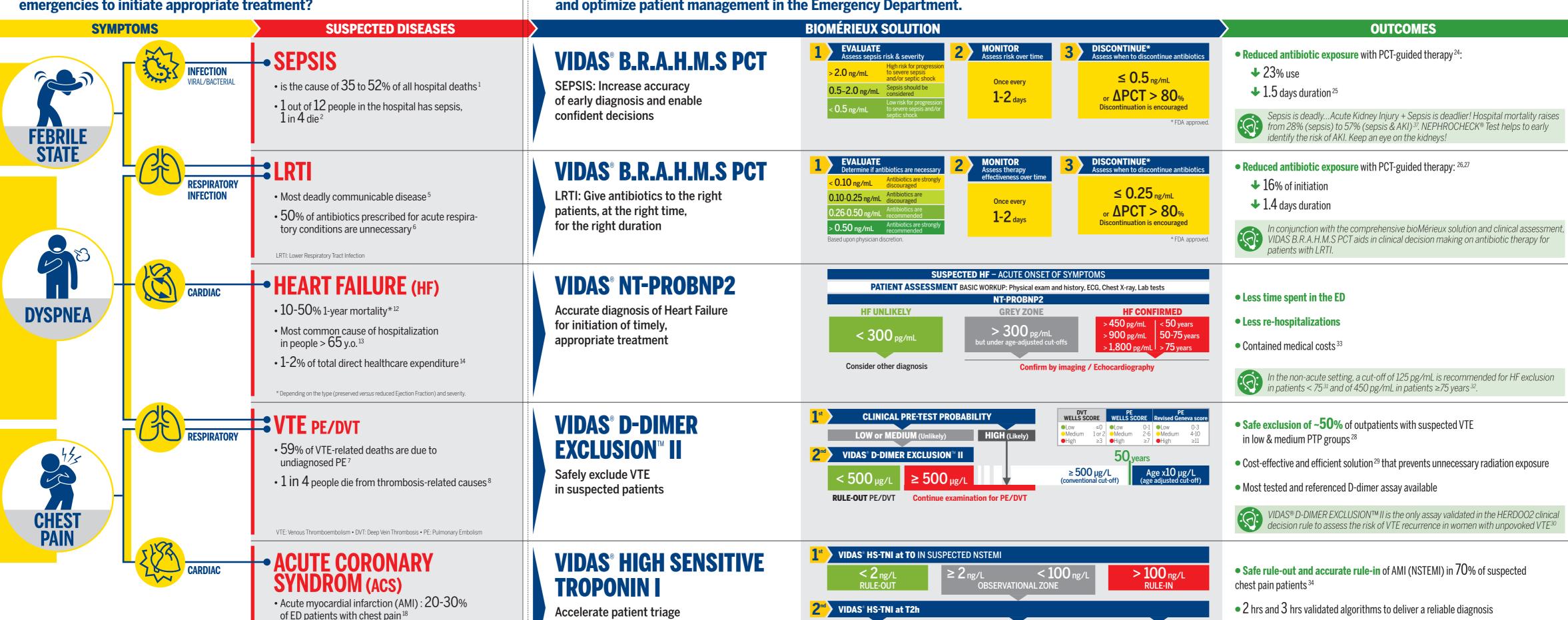
ED: Emergency Department • STEMI: ST-segment Elevation Myocardial Infarction • NSTEMI: Non-ST-segment Elevation Myocardial Infarction • NSTE-ACS: Non-ST-segment Elevation Acute Coronary Syndromes

VIDAS® EMERGENCY PANEL

with high diagnostic accuracy

in only 2 hours

Improve patient outcomes and optimize patient management in the Emergency Department.



Others

T0 & T2h < 6 ng/L

RULE-OUT (54.69

 $\Delta T0-T2h \ge 10 \text{ ng/L}$

RULE-IN (15.8%)

with respect to MACE* rate at 30 days

* Major Adverse Cardiovascular Event

• Aid in risk stratification of patients with symptoms suggestive of ACS