

## High-sensitivity troponin levels can predict MI risk

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myocardial infarction was 15.3 percent among 22,651 patients. There was a correlation for lower high-sensitivity troponin concentrations at presentation and smaller absolute changes during serial sampling with lower likelihood of myocardial infarction and reduced short-term risk of cardiovascular events. The negative predictive value for myocardial infarction was 99.5 percent with high-sensitivity troponin I concentrations of less than 6 ng/L and an absolute change of less than 4 ng/L after 45 to 120 minutes (early serial sampling), with an associated 30-day risk of subsequent myocardial infarction or death of 0.2 percent.

"These data suggest that the concentration of highsensitivity troponin may be useful as a riskprediction biomarker as well as a <u>diagnostic test</u>," the authors write.

(HealthDay)—For patients presenting to the emergency department with symptoms suggestive of myocardial infarction, a tool developed to integrate high-sensitivity troponin I or T concentrations and dynamic change during serial sampling can estimate the probability of myocardial infarction and 30-day outcomes, according to a study published in the June 27 issue of the *New England Journal of Medicine*.

Johannes T. Neumann, M.D., from the University Heart Center Hamburg in Germany, and colleagues determined the concentrations of highsensitivity troponin I or high-sensitivity troponin T in 15 international cohorts of patients with symptoms suggestive of myocardial infarction; troponin was measured at presentation to the <u>emergency</u> <u>department</u> and after early or late serial sampling. A <u>risk assessment tool</u> was developed to estimate the risk of index and subsequent myocardial infarction or death at 30 days.

The researchers found that the prevalence of

The high-sensitivity troponin I and <u>troponin</u> T assays were partly donated by Roche and Abbott.

More information: <u>Abstract/Full Text</u> (subscription or payment may be required)

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