Clinical Performance of Elecsys® Troponin T hs Gen 6 in Subjects with Symptoms of Acute Coronary Syndrome

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To determine the clinical performance of Elecsys® Troponin Ths Gen 6 relative to the clinical diagnosis at different time points after patient admission (T0, T1, T2, T3, T6) using the previously determined universal or combined sex-specific cut-off...

Ethical review Approved WMO **Status** Completed

Health condition type Coronary artery disorders **Study type** Observational invasive

Summary

ID

NL-OMON56428

Source

ToetsingOnline

Brief title

PERFORM-TSIX Study

Condition

Coronary artery disorders

Synonym

acute coronoaire syndrome, myocardial infarction

Research involving

Human

Sponsors and support

Primary sponsor: Roche Diagnostics GmbH

Source(s) of monetary or material Support: Roche Diagnostics GmbH

Intervention

Keyword: acute coronoary syndrome, clinical evaluation, troponin T

Outcome measures

Primary outcome

primary endpoint: Negative predictive value (NPV) of troponin Ths measured by the 6th generation test at T3

Secondary outcome

clinical performance of troponin Ths gene 6 at other time points after admission

Performance of the troponin Ths gene 6 assay when the assay is used in the

rapid rule-out algorithm as described by the European Society of Cardiology

(ESC)

Study description

Background summary

The Elecsys® Troponin T hs generation 6 assay is an immunoassay utilizing the electrochemiluminescence »ECLIA« technology for the quantitative, highly sensitive in vitro measurement of human cardiac troponin T (hcTnT) in human serum and plasma. The test uses two monoclonal antibodies specifically directed against hcTnT. The Elecsys® Troponin T hs Gen 6 assay has improved analytical sensitivity compared to the previous assay generation, detecting both free troponin T and binary and ternary complexes of troponin.

This study is being conducted to obtain approval for use of Elecsys® Troponin Ths Gen 6 in clinical practice by the regulatory authorities, including the US

This Study is being conducted to obtain approval for use of Elecsys® Hopolini This Gen 6 in clinical practice by the regulatory authorities, including the US FDA, for CE Marking (EU), by the NMPA (China) and by the PMDA (Japan).

Study objective

To determine the clinical performance of Elecsys® Troponin Ths Gen 6 relative to the clinical diagnosis at different time points after patient admission (T0, T1, T2, T3, T6) using the previously determined universal or combined sex-specific cut-off value (the 99th percentile URL of a healthy reference

population).

Study design

Prospective, non-interventional, single-arm, longitudinal cohort multicenter study enrolling patients with signs and symptoms of ACS

Study burden and risks

The burden is a maximum of 4 extra venipuntures during admission, a maximum of 5 x blood sampling (19 mL) and 2 x follow-up by telephone. The only risks of the study are the possible side effects of a venipuntures.

Contacts

Public

Roche Diagnostics GmbH

Sandhofer Strasse 116 Mannheim 63805 DE

Scientific

Roche Diagnostics GmbH

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years) Elderly (65 years and older)

Inclusion criteria

Signed Informed Consent

Age >=20 Years

Subjects demonstrating symptoms suggestive of acute coronary syndrome and/or myocardial ischemia, such as any of the following:

Chest pain, pressure, or a burning sensation across the precordium and epigastrium

Pain that radiates to neck, shoulder, jaw, back, upper abdomen, or either arm

Acute onset or worsening dyspnea

Nausea, vomiting, or indigestion

Lightheadedness or syncope

Diaphoresis

Generalized weakness or fatigue

Troponin or other cardiac marker determination planned as part of suspected ACS routine care

Asymptomatic subjects with atypical symptoms in whom myocardial infarction is being suspected

Exclusion criteria

none

Study design

Design

Study type: Observational invasive

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Diagnostic

Recruitment

NL

Recruitment status: Completed
Start date (anticipated): 25-01-2023

Enrollment: 100

Type: Actual

Medical products/devices used

Generic name: Elecsys Troponin Ths Gen 6

Registration: No

Ethics review

Approved WMO

Date: 29-11-2022

Application type: First submission

Review commission: MEC-U: Medical Research Ethics Committees United

(Nieuwegein)

Approved WMO

Date: 06-09-2023

Application type: Amendment

Review commission: MEC-U: Medical Research Ethics Committees United

(Nieuwegein)

Approved WMO

Date: 04-10-2023

Application type: Amendment

Review commission: MEC-U: Medical Research Ethics Committees United

(Nieuwegein)

Approved WMO

Date: 31-07-2024

Application type: Amendment

Review commission: MEC-U: Medical Research Ethics Committees United

(Nieuwegein)

Approved WMO

Date: 30-10-2024

Application type: Amendment

Review commission: MEC-U: Medical Research Ethics Committees United

(Nieuwegein)

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register ID

CCMO NL82227.000.22