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# BOOK OF ABSTRACTS

International Conference  
**CARDIOVASCULAR DISEASES**

**CVD-IA**

Integrated Approach From Basic,  
Clinical Science, Public Health and Bioethics

Yogyakarta, May 14-17, 2016

Abdul Kahar Muzakkir, Conference Hall  
Universitas Islam Indonesia, Yogyakarta  
UII Main Campus, Jl. Kaliurang KM 14.5 Sleman Yogyakarta

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CARDIOVASCULAR DISEASES**

**Integrated Approach from Basic, Clinical Science, Public Health and Bioethics**

Editor

**Rahma Yuantari**

**Novyan Lusiana**

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**Tri Suwarno**

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## PROFILE OF CKMB AND TROPONIN I EXAMINATIONS IN PATIENTS WITH CHEST PAIN COMPLAINTS

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### Background:

Chest pain was chief complaints in emergency department. This complaints could be caused by cardiac or non cardiac. Cardiac cause could be ACS (acute coronary syndrome) thus cardiac enzyme assay is mandatory to exclude cardiac cause in patients with chest pain. The most ordered cardiac enzyme assay are CKMB (Creatinin Kinase MB) and Troponin I. The aim of this study is to know how both assay ordered and how much inter-rater agreement in positive results in patients with chest pain complaints.

### Method:

This study using observative cross sectional design. Subject population in this study were all patients with chest pain complaints who came to JIH hospital in 2014-2015 who ordered CKMB and Troponin I assays by emergency unit doctor. 2 x 2 table was used to measure weight kappa coefficient.

### Results:

116 subject followed this study, 81 patients did CKMB assay followed by Troponin I assay. 9 patients did CKMB assay only and 25 patients did Troponin I assay only. 74 patients were positive in CKMB assay with median 421 (1-25019), 43 patients were positive in Troponin I assay with median 38 (2-1635). 2 x 2 table showed that 43 patients/53% were positive in both assay, 7 patients/8,64% were negative in both assay. 31 patients/38,27% were positive in either assay. Weighted Kappa coefficient for this study was 0,913.

### Conclusions:

CKMB and Troponin I were measured in almost all patients with chest pain complaint. There was almost perfect agreement between CKMB and troponin I assay result in patients with chest pain complaints.

**Keywords:** CKMB, TROPONIN I, ACS, chest pain



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#### REFERENCES :

1. GBD 2013 Mortality and Causes of Death Collaborators. Global , regional , and national age-sex specific all-cause and cause-specific mortality for 240 causes of death , 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. 2015;385(9963):117-71.
2. Shepard D, Vanderzanden A, Moran A, Naghavi M, Murray C, Roth G. Ischemic Heart Disease Worldwide, 1990 to 2013: Estimates from the Global Burden of Disease Study 2013. *Circ Cardiovasc Qual Outcomes*. 2015;8(4):455-6.
3. Ordunez P, Prieto-Lara E, Gawryszewski VP, Hennis AJM, Cooper RS. Premature mortality from cardiovascular disease in the Americas - Will the goal of a decline of "25% by 2025" be met? *PLoS One*. 2015;10(10):1-11.
4. Roth GA, Forouzanfar MH, Moran AE, Barber R, Nguyen G, Feigin VL, et al. Demographic and epidemiologic drivers of global cardiovascular mortality. *N Engl J Med* [Internet]. 2015;372(14):1333-41. Available from: <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=4482354&tool=pmcentrez&rendertype=abstract>
5. Zhao Z, Winget M. Economic burden of illness of acute coronary syndromes: medical and productivity costs. *BMC Health Serv Res* [Internet]. BioMed Central Ltd; 2011; 11(1):35. Available from: <http://www.biomedcentral.com/1472-6963/11/35>

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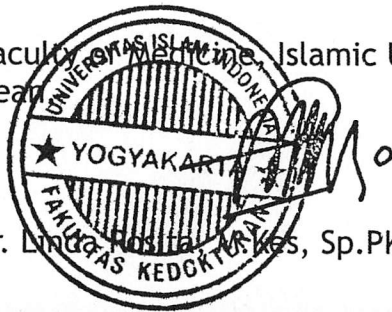
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