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The impact of *Helicobacter pylori* infection toward the severity, type of AMI and risk factors for chronic heart disease in AMI patients

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Background: *Helicobacter pylori* (*H. pylori*) colonize and infect gastric mucosa which might lead to chest discomfort. It is assumed that the products of *H. pylori* (cytokines, cytotoxic) denude and erode the coronary artery plaque; therefore, it is suspected that *H. pylori* infection might be associated with inflammatory response of acute myocardial infarction (AMI), although the assumption is still controversial.

Aim: Aim of this study is to identify the impact of *H. pylori* toward the severity and type of AMI; and the number of risk factor for chronic heart disease (CHD) in AMI patients.

Method: Our study was a prospective cohort study that was conducted among patients with AMI at the hospitals in Manado city and its surrounding areas between 2015-2016. Data collection was carried out by filling in questionnaires, serology testing to identify antigen of *H. pylori* and conducting echocardiography in patients with AMI. Data was analyzed using SPSS program version 23.0.

Results: There was no significant impact of *H. pylori* infection toward the severity of AMI ($p=0.713$) and the number of CHD risk factors ($p=0.087$); however, the type of AMI and *H. pylori* infection showed a significant association ($p=0.017$). STEMI patients tended to have *H. pylori* infection.

Conclusion: No significant impact of *H. pylori* infection toward the severity of AMI and the number of CHD risk factors was found; however, there was a significant association between type of AMI (STEMI) and *H. pylori* infection.

Biography

Starry Homenta Rampengan has completed his PhD and Post-doctoral studies from University of Indonesia. He is Director of Jade Cardiovascular Clinic in North Sulawesi, Indonesia and Consultant Cardiologist, Interventionist at Siloam Hospital Manado and Kandou Hospital Manado, North Sulawesi, Indonesia. He has published more than 20 papers in journals.

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