



Admission NT-ProBNP in Myocardial Infarction: an Alert Sign?

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Hospital de Clínicas de Porto Alegre (HCPA), Porto Alegre, RS – Brazil Short Editorial related to the article: The Usefulness of Admission Plasma NT-pro BNP Level to Predict Left Ventricular Aneurysm Formation after Acute ST-Segment Elevation Myocardial Infarction

This issue of *Arquivos Brasileiros de Cardiologia* brings a paper entitled "The Usefulness of Admission Plasma NT-pro BNP Level to Predict Left Ventricular Aneurysm Formation after Acute ST-Segment Elevation Myocardial Infarction". ¹ The authors bring a cohort of 1,519 post-acute ST-segment elevation myocardial infarction (STEMI) who were followed-up for at least six months. Despite its observational and retrograde design, the authors were straightforward in looking for predictive variables that could foresee the occurrence of

Keywords

Myocardial Infarction; Heart Failure; Ventricular Dysfunction, Left; Natriuretic Peptides/metabolismo; Natriuretic Peptide Brain/metabolism; Echocardiography/diagnostic imaging; Magnetic Resonance Spectroscopy/methods.

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left ventricular aneurysms (LVA). Among other major clinical aspects such as previous coronary artery bypass graft, post-MI heart failure, younger age, smoking and no-reflow phenomenon; authors highlighted the importance of high NT-proBNP at admission as a predictor of LVA formation after acute STEMI.

I would probably highlight one weakness and a potentially positive aspect of their work.

The weakness is that a LVA will never be diagnosed by a NT-Pro-BNP level and will always be found, confirmed and/or followed by an image test (Echo, CMR, etc.). NT-ProBNP usually and reliably identifies patients who are sicker or more congested, either in acute,² or in chronic heart failure,³ or even without heart failure.⁴

The potentially positive one was, interestingly, what the authors have considered their limitation: that the NT-ProBNP values have been collected at admission. Having a high natriuretic peptide level at the admission of a STEMI patient could be a predictive variable of a clinical event, such as LVA formation, in six months. It was there, on the "Limitations" section, the best and most clinically relevant information.

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Erratum

In Short Editrorial "Admission NT-ProBNP in Myocardial Infarction: an Alert Sign?", consider Luís Beck-da-Silva as the correct form for the name of the author Luís Beck da Silva.



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