

# Accepted Manuscript

Differences in the association of total versus local coronary artery calcium with acute coronary syndrome and culprit lesions in patients with acute chest pain: The coronary calcium paradox

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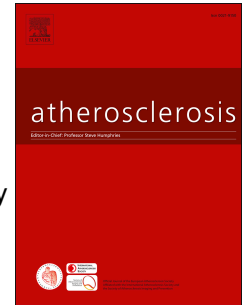
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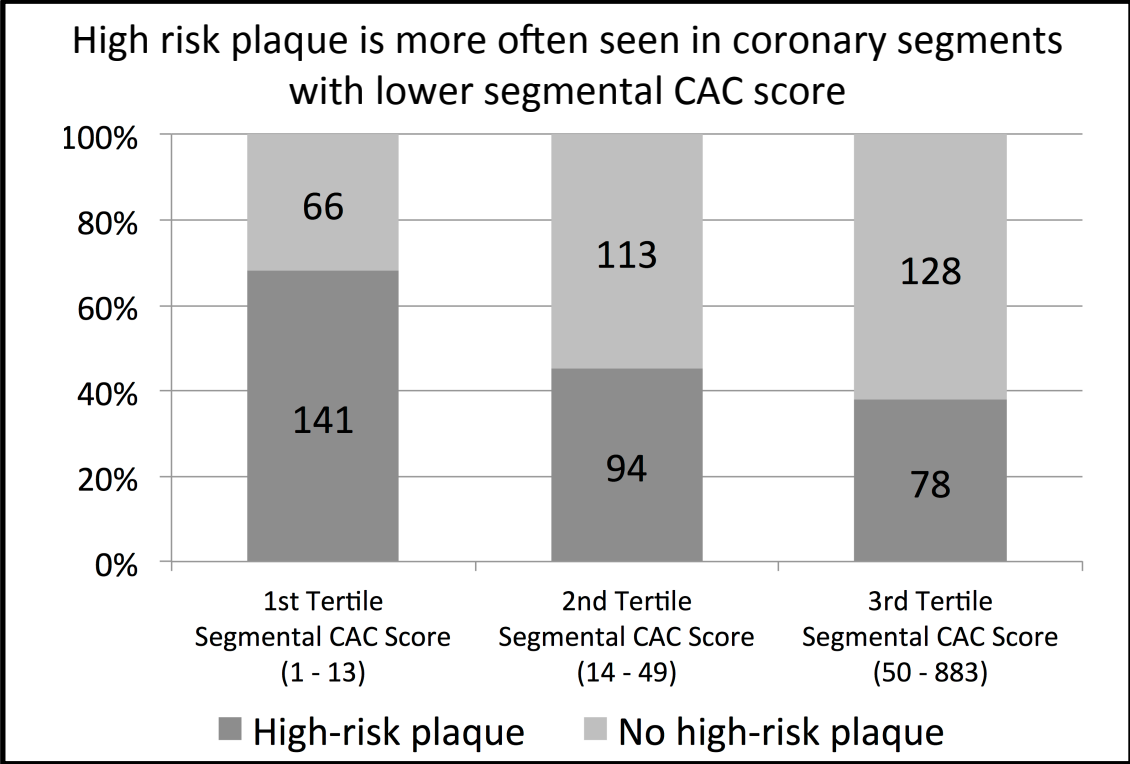
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**Total CAC score**  
Patients with ACS 229 vs. without ACS 27  
Predictor of ACS at patient level

**Culprit lesions of ACS vs. non-culprit lesions**  
No difference in local segmental CAC score 22 vs. 14  
Higher prevalence of high-risk plaque 76% vs. 51%



**Coronary calcium paradox**  
Higher total CAC score at patient level was associated with the diagnosis of ACS  
Local more extensive CAC was not associated with the presence of culprit lesions and high-risk plaque  
Local extensive CAC may represent more stable stage of atherosclerosis

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