

شبكة المعلومات الجامعية







شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

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بالرسالة صفحات لم ترد بالإصل

Proinflammatory cytokines and adhesion molecules in acute myocardial infarction diagnostic role and prognostic implications

Thesis

Submitted in partial fulfillment of the M.D Degree

(Critical Care Medicine)

By

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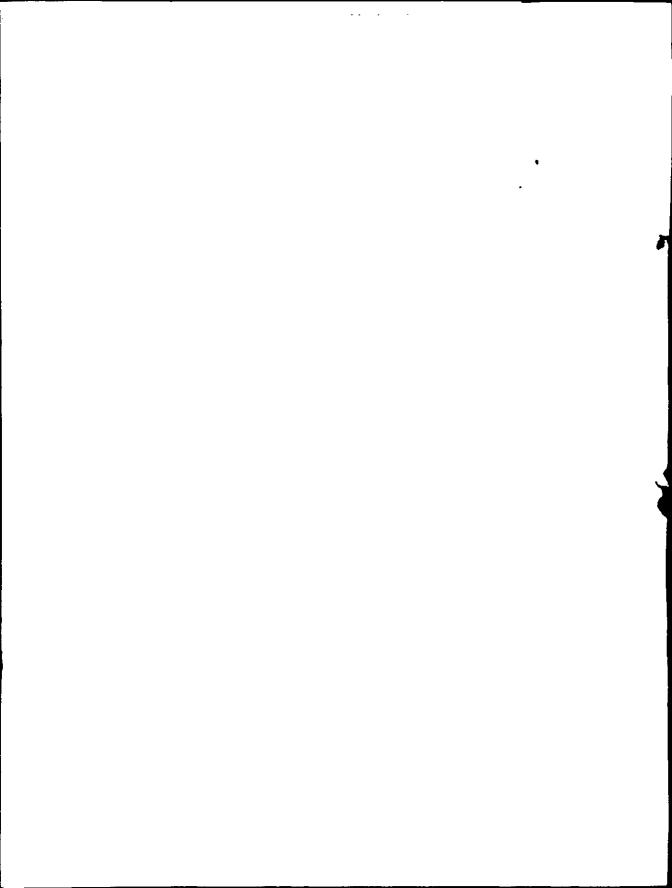
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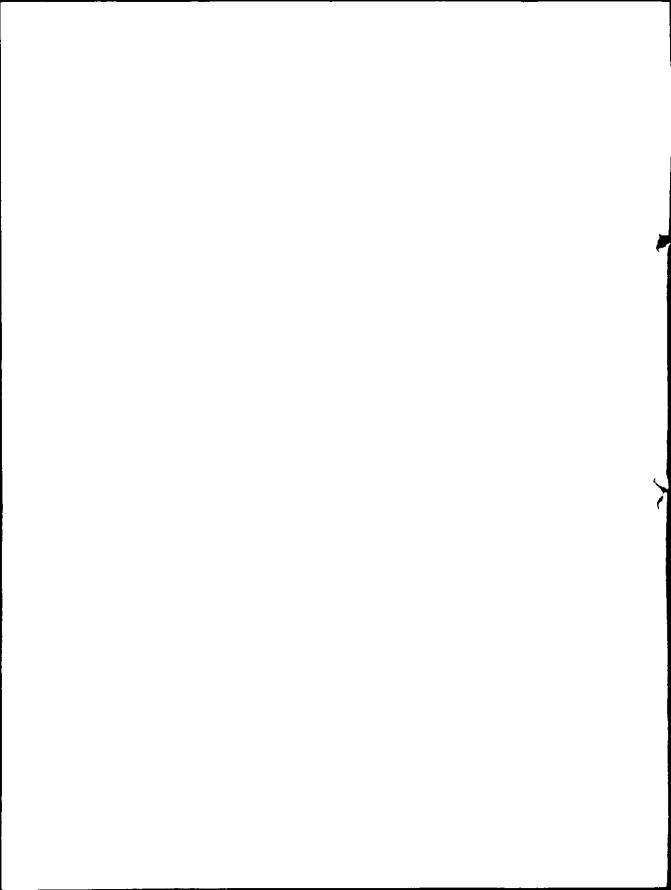
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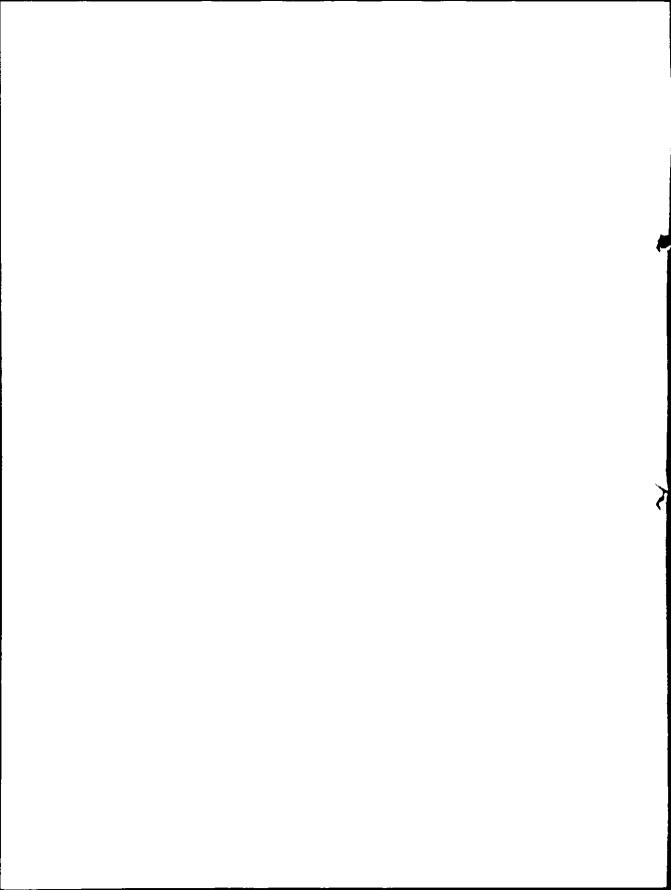




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Abstract

Objectives: To study the cardiac inflammatory responses namely release of cytokines IL-1B, IL-6, IL-8 and TNF- α and expression of adhesion molecule ICAM-1 in reperfused acute MI treated by thrombolytic therapy in comparison with acute MI not subjected to thrombolysis and normal volunteers.

Design: Prospective study:

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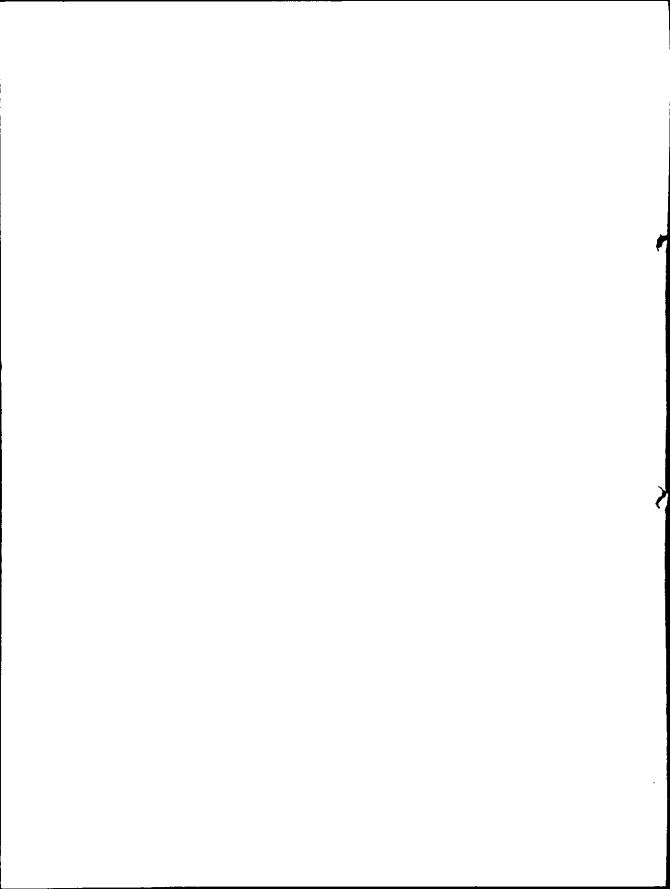
Patients: 60 patients with acute MI (group I, 30 patients treated with thrombolytic therapy, group II, 30 patients not subjected to thrombolysis. Patients in group I were further subclassified into group IA who showed successful thrombolysis and group IB who failed to achieve a successful thrombolysis) together with 20 healthy controls.

Methods: Serial blood samples were obtained immediately on admission, 6 hrs and 24 hrs later for estimation of plasma cytokines level (IL-1B, IL-6, IL-8 and TNF-α) and measurement of soluble ICAM-1, left ventricular function was assessed by transthoracic echocardiography and vessel patency by coronary angiography.

Results: In general it was observed that except for IL-1B, all other cytokines levels plus level of adhesion molecule ICAM-1 were more elevated in patients treated with successful thrombolysis (Group IA) if compared to patients not receiving thrombolytic therapy (Group II) or the trial was not successful (Group IB). Elevation of plasma levels of different cytokines (IL-6, IL-8 and TNF- α) and adhesion molecule (ICAM-1) was observed at 6hrs after admission and 24hrs later. It was also observed that plasma level of IL-6, IL-8 and TNF- α and ICAM-1 were more elevated with significant difference in patients with complicated course by left ventricular failure when compared to those who passed smooth course. Moreover regression analysis between EF% and these cytokines and ICAM-1 showed that with more higher levels of these cytokines and ICAM-1 there was more lower EF%.

Conclusion: Besides their role in neutrophil mediated injury of myocytes in acute MI, the cytokines IL-6, IL-8 and TNF- α and adhesion molecule ICAM-1 can serve as markers of successful reperfusion and predictors of left ventricular function deterioration.

Key words: Cytokines. Interleukin-1B. Interleukin-6. Interleukin-8. Tumor necrosis factor-α. Adhesion molecules. Intercellular adhesion molecule-1 (ICAM-1). Acute myocardial infarction. Reperfusion injury.



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AL- SAYED GABER ALY

