Protective effect of Yinxingdamo injection on ischemia reperfusion injury after interventional therapy of acute myocardial infarction and its possible molecular mechanism

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View from specialist: It is creative, and of certain scientific and educational value.

[ABSTRACT] Objective: To study the protective effects of Yinxingdamo injection on ischemia reperfusion injury after interventional therapy of acute myocardial infarction and its possible molecular mechanism. Methods: A total of 120 cases of myocardial infarction received interventional treatment admitted from 2012.4-2014.4 were enrolled and randomly divided into two groups. Patients in observation group received Yinxingdamo injection combined with routine supportive treatment, while patients in control group received conventional supporting treatment. Then myocardial enzyme spectrum, inflammation reaction index and oxidative stress index were compared. Results: Plasma CK-MB, cTnT, MMP2, MMP9, MDA content of observation group were significantly lower than those of control group (P<0.05). TIMP-1, GSH, SOD content was higher than those of control group (P<0.05). Conclusions: Yinxingdamo injection is helpful to relieve ischemia reperfusion injury after interventional therapy of acute myocardial infarction; this effect may be achieved through relieving inflammatory reaction and oxi-

[KEY WORDS] Myocardial infarction; Interventional therapy; Ischemia reperfusion injury; Yinxingdamo injection; Inflammatory reaction; Oxidative stress