We investigated if intravenous glutamate infusion given in association with coronary surgery can reduce mortality, myocardial injury and postoperative heart failure. Based on encouraging clinical experience the GLUTAMICS-trial was initiated. A total of 861 patients operated for acute coronary syndrome were randomized to blinded intravenous infusion of glutamate or saline. Significant secondary outcome differences suggest a beneficial effect of glutamate on post-ischemic myocardial recovery. Intravenous glutamate infusion could provide an important way of promoting myocardial recovery after ischemic injury.

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