

# Clinical trials of GIK infusion

TrialResults-center [www.trialresultscenter.org](http://www.trialresultscenter.org)

## 1 acute myocardial infarction

Trial	Treatments	Patients	Trials design and methods
<b>GIK infusion vs control</b>			
<b>OASIS 6 , 2007</b> [NCT00064428] n=NA follow-up:	High-dose GIK solution consisting of 25% glucose, 50 U/L of regular insulin, and 80 mEq/L of potassium infused at 1.5 mL/kg per hour for 24 hours versus control	patients with acute STEMI	Parallel groups
<b>CREATE-ECLA , 2006</b> n=10091/10110 follow-up:	GIK intravenous infusion for 24 hours versus usual care	patients with STEMI within 12 hours of symptom onset	Parallel groups open
<b>Glucose-insulin-potassium study II , 2007</b> n=444/445 follow-up:	GIK infusion versus standard care	STEMI patients without signs of heart failure	Parallel groups
<b>Krljanac , 2005</b> n=NA follow-up:	high dose of GIK (25% glucose, 50 IU of soluble insulin per liter, and 80 mmol of potassium chloride per liter at 1 ml/kg/hour over 24 hours) versus control	patients with ST-elevation myocardial infarction within 12 hours from symptom onset	Parallel groups open
<b>GIK infusion vs placebo</b>			
<b>Bucciarelli-Ducci , 2006</b> n=40/33 follow-up:	GIK infusion versus placebo	patients treated with primary percutaneous coronary intervention for ST-segment elevation myocardial infarction	Parallel groups
<b>IMMEDIATE</b> <i>ongoing</i> [NCT00091507] n=NA follow-up:	intravenous glucose, insulin and potassium 1.5ml/kg/hour, continuous infusion for total of 12 hours versus placebo	patients with threatened or established acute myocardial infarction	Parallel groups double blind

More details and results :

- glucose insulin potassium for acute myocardial infarction in all type of patients at <http://www.trialresultscenter.org/go-Q250>

## References

### **OASIS 6, 2007:**

Daz R, Goyal A, Mehta SR, Afzal R, Xavier D, Pais P, Chrolavicius S, Zhu J, Kazmi K, Liu L, Budaj A, Zubaid M, Avezum A, Ruda M, Yusuf S Glucose-insulin-potassium therapy in patients with ST-segment elevation myocardial infarction. JAMA 2007 Nov 28;298:2399-405 [[18042917](#)]

### **CREATE-ECLA , 2006:**

Mehta SR, Yusuf S, Daz R, Zhu J, Pais P, Xavier D, Paolasso E, Ahmed R, Xie C, Kazmi K, Tai J, Orlandini A, Pogue J, Liu L Effect of glucose-insulin-potassium infusion on mortality in patients with acute ST-segment elevation myocardial infarction: the CREATE-ECLA randomized controlled trial. JAMA 2005 Jan 26;293:437-46 [[15671428](#)]

### **Glucose-insulin-potassium study II, 2007:**

Rasoul S, Ottervanger JP, Timmer JR, Svilaas T, Henriques JP, Dambrink JH, van der Horst IC, Zijlstra F One year outcomes after glucose-insulin-potassium in ST elevation myocardial infarction. The Glucose-insulin-potassium study II. Int J Cardiol 2007 Oct 31;122:52-5 [[17223212](#)]

### **Krljanac, 2005:**

Krljanac G, Vasiljevic Z, Radovanovic M, Stankovic G, Milic N, Stefanovic B, Kostic J, Mitrovic P, Radovanovic N, Dragovic M, Marinkovic J, Karadzic A Effects of glucose-insulin-potassium infusion on ST-elevation myocardial infarction in patients treated with thrombolytic therapy. Am J Cardiol 2005 Oct 15;96:1053-8 [[16214437](#)]

### **Bucciarelli-Ducci , 2006:**

Bucciarelli-Ducci C, Bianchi M, De Luca L, Battagliese A, Di Russo C, Proietti P, Vizza CD, Fedele F Effects of glucose-insulin-potassium infusion on myocardial perfusion and left ventricular remodeling in patients treated with primary angioplasty for ST-elevation acute myocardial infarction. Am J Cardiol 2006 Nov 15;98:1349-53 [[17134627](#)]

### **IMMEDIATE, :**

ongoing trial NCT00091507

Selker HP, Beshansky JR, Sheehan PR, Massaro JM, Griffith JL, D'Agostino RB, Ruthazer R, Atkins JM, Sayah AJ, Levy MK, Richards ME, Aufderheide TP, Braude DA, Pirralo RG, Doyle DD, Frascone RJ, Kosiak DJ, Leaming JM, Van Gelder CM, Walter GP, Wayne MA, W Out-of-Hospital Administration of Intravenous Glucose-Insulin-Potassium in Patients With Suspected Acute Coronary Syndromes: The IMMEDIATE Randomized Controlled Trial. JAMA 2012 Mar 27;: [[22452807](#)]  
[10.1001/jama.2012.426](https://doi.org/10.1001/jama.2012.426)