

Clinical trials of off-pump

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1 CABG surgery

Trial	Treatments	Patients	Trials design and methods
off-pump vs on-pump			
Al-Ruzzeh b , 2006 n=84/84 follow-up: 6 months	off-pump versus coronary artery bypass grafting surgery using cardiopulmonary bypass	patients requiring primary isolated coronary artery bypass grafting surgery	Parallel groups open with blinded assessment UK
Alwan , 2004 n=35/35 follow-up: In-hospital/30-day mortality	beating heart revascularization versus arrested heart revascularization	patients undergoing CABG	Parallel groups open
Ascione , 2006 n=20/20 follow-up: In-hospital	off-pump coronary artery bypass grafting versus artery bypass grafting with cardiopulmonary bypass	patient undergoing CABG	Parallel groups open
Ascione , 2005 n=10/10 follow-up: In-hospital	off-pump CABG versus on-pump CABG	patient undergoing CABG	Parallel groups open
Baker , 2001 n=12/14 follow-up:	off pump surgery using the Octopus II stabilizing system versus conventional CABG cardiopulmonary bypass	elective patients requiring surgery for double or triple vessel disease	open
BBS (Moller) , 2010 [NCT00120991] n=177/164 follow-up: 30 days	off-pump CABG versus on-pump CABG	patients >54 years of age with three-vessel coronary artery disease with EuroSCORE of 5-16 undergoing elective or sub-acute coronary artery bypass grafting	Parallel groups open blind assessor
BHACAS I (Ascione) , 1999 n=100/100 follow-up: 65279;25 months	off-pump versus on-pump	cardiac surgery candidates	Parallel groups open with blinded assessment

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Trial	Treatments	Patients	Trials design and methods
BHACAS II (Angelini) , 2002 n=100/101 follow-up: 13.7 months	off-pump versus on-pump	patients with myocardial infarction in the past month or who required grafting of the circumflex artery distal to the first obtuse marginal branch	Parallel groups open with blinded assessment
Caputo , 2002 n=20/20 follow-up: In-hospital	beating heart surgery (off-pump) versus conventional CABG with cardiopulmonary bypass	patients undergoing coronary artery bypass grafting	Parallel groups open
Carrier , 2003 n=32/33 follow-up: In-hospital/30-day mortality	off-pump CABG versus on-pump CABG	high-risk patients	Parallel groups open
Covino , 2001 n=21/16 follow-up: In-hospital	-	-	open
Czerny , 2000 n=NA	-	-	open
Czerny b , 2001 n=NA	-	-	open
Diegeler , 2000 n=20/20 follow-up: In-hospital	coronary artery bypass operation without cardiopulmonary bypass (off-pump CABG) versus conventional coronary artery bypass operation using cardiopulmonary bypass	cardiac surgery candidates	Parallel groups open
DOORS , 2009 [NCT00123981] n=NA follow-up: 30 days	Off-Pump Coronary Artery Bypass Grafting versus on-pump CABG	elderly patients	Parallel groups open
Dorman , 2004 n=NA	-	-	open
Gasz , 2004 n=NA	-	-	open
Gerola , 2001 n=80/80 follow-up: In-hospital/30-day mortality	off-pump coronary artery bypass versus on-pump CABG	low-risk patients undergoing CABG	Parallel groups open

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Trial	Treatments	Patients	Trials design and methods
Gu , 1998 n=31/31 follow-up: 65279;In-hospital	minimally invasive coronary artery bypass grafting versus conventional coronary artery bypass grafting with cardiopulmonary bypass	patients with isolated stenosis of the left anterior descending coronary artery	Parallel groups open
Guler , 2001 n=NA	-	-	open
Gulielmos , 1999 n=20/20 follow-up: 3 months	off-pump coronary artery bypass with median sternotomy or off-pump procedure and lateral minithoracotomy versus conventional technique or lateral minithoracotomy and cardiopulmonary bypass	patients with coronary artery single-vessel disease	Parallel groups open
Jares , 2006 n=10/10 follow-up: 24 h	off-pump CABG versus on-pump CABG	patients scheduled for coronary bypass grafting	Parallel groups open
Khan , 2004 n=54/49 follow-up: 3 months	off-pump CABG versus conventional "on-pump" surgery	patient undergoing CABG	Parallel groups open
Kobayashi , 2005 n=81/86 follow-up: 30 days	off-pump CABG versus on-pump CABG	patients referred for elective primary CABG	Parallel groups open
Kunes , 2007 n=17/17 follow-up: 7 days	off-pump CABG versus on-pump CABG	patient undergoing CABG	Parallel groups open
Lee , 2003 n=30/30 follow-up:	off-pump CABG versus conventional on-pump CABG	patients undergoing CABG	open
Legare , 2004 [NCT00216957] n=150/150 follow-up: 3.8 years	off-pump CABG versus on-pump CABG	patients undergoing CABG	Parallel groups open
Lingaas , 2003 n=60/60 follow-up: 12 months	off-pump CABG versus on-pump CABG	patient undergoing CABG	Parallel groups open
Matata , 2000 n=10/10 follow-up: In-hospital	off-pump versus on-pump	cardiac surgery candidates	Parallel groups open

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Trial	Treatments	Patients	Trials design and methods
Michaux , 2006 n=25/25 follow-up: 30 days	off-pump CABG versus on-pump CABG	patients scheduled for elective coronary artery bypass surgery	Parallel groups open
Motallebzadeh , 2004 n=15/20 follow-up: In-hospital	off-pump CABG versus on-pump CABG	patients admitted for CABG	Parallel groups open
Motallebzadeh b , 2006 n=108/104 follow-up: 6 months	off-pump CABG versus on-pump CABG	patients admitted for elective coronary artery bypass graft surgery	Parallel groups open
Muneretto , 2003 n=NA	-	-	open
Niranjan , 2006 n=40/40 follow-up: In-hospital	off-pump CABG with or without cell saver blood transfusion versus on-pump CABG with or without cell saver blood transfusion	patient undergoing CABG	open
OCTOPUS (van Dijk) , 2002 n=142/139 follow-up: 5 years	off-pump surgery versus on-pump surgery	patients with predominantly single- or double-vessel coronary disease	Parallel groups open with blinded assessment the Netherlands
Ozkara , 2007 n=22/22 follow-up: In-hospital	off-pump CABG versus on-pump CABG	patients admitted for elective CABG	Parallel groups open
Paparella , 2006 n=15/16 follow-up: In-hospital	off-pump CABG versus on-pump CABG	patient undergoing CABG	Parallel groups open
Parolari , 2003 n=NA	-	-	open
Parolari b , 2003 n=NA	-	-	open
Penttila , 2001 n=11/11 follow-up: In-hospital	off-pump CABG versus on-pump CABG	patients requiring CABG	Parallel groups open
PRAGUE 4 (Widimsky) , 2004 n=208/192 follow-up: 1 y	off pump versus on pump	cardiac surgery candidates	Parallel groups open

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Trial	Treatments	Patients	Trials design and methods
PROMISS (Uva) , 2010 n=75/75 follow-up: 5 weeks (498 days)	off-pump versus on-pump	patients between 30 and 90 years of age with multi-vessel coronary artery disease undergoing CABG with at least three distal coronary anastomoses	Parallel groups open
Puskas , 2004 n=NA	-	-	open
Raja b , 2003 n=150/150 follow-up: In-hospital	on-pump CABG versus off-pump CABG	patients undergoing CABG	Parallel groups open
ROOBY (Shroyer) , 2009 [NCT00032630] n=1104/1099 follow-up: 1 mo (1y)	off-pump CABG versus on-pump CABG	patients scheduled for urgent or elective coronary bypass surgery	Parallel groups open USA
Sahlman , 2003 n=NA	-	-	open
Selvanayagam , 2004 n=30/30 follow-up: In-hospital	off-pump CABG versus on-pump CABG	patients undergoing multivessel CABG	Parallel groups open
SMART (Staton) , 2003 n=100/100 follow-up: 12 months	off-pump coronary artery bypass versus CABG with cardiopulmonary bypass	patients unselected for coronary anatomy, ventricular function, or comorbidities	Parallel groups open with blinded assessment US
Syed , 2004 n=NA	-	-	open
Tang , 2002 n=NA	-	-	open
Tatoulis , 2006 n=50/50 follow-up: 30 days	off-pump CABG versus on-pump CABG	candidates for elective CABG	Parallel groups open
Vedin , 2006 n=NA follow-up:	off-pump CABG versus on-pump CABG	patients between 50 and 80 years with stable angina pectoris, ejection fraction >30% , serum creatinine <150 micromol/l, and lack of tight main stem stenosis	open
Velisaris , 2003 n=NA	-	-	open
Vural , 1995 n=NA	-	-	open

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Trial	Treatments	Patients	Trials design and methods
Wan , 2004 n=NA	-	-	open
Wandschneider , 2000 n=NA	-	-	open
Zamvar , 2002 n=30/30 follow-up: 10 weeks	off-pump CABG versus on-pump CABG	patients undergoing coronary artery bypass graft surgery for triple vessel disease	Parallel groups open UK
GOPCABE <i>ongoing</i> [NCT00719667] n=NA follow-up:	Off-pump CABG versus ON-pump CABG	Elderly	Parallel groups open
OCTOPUS II <i>ongoing</i> n=NA	-	-	
Ontario <i>ongoing</i> [NCT00259493] n=NA follow-up: 3 months	Off-Pump CABG versus On-Pump CABG	-	Parallel groups double blind

9 More details and results :

- off-pump CABG for CABG surgery in all type of patients at <http://www.trialresultscenter.org/go-Q315>

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