

Appendix 2 Risk of bias of included randomized controlled trials

Author (year)	Randomization sequence generation	Allocation concealment	Blinding of participants and personnel	Blinded assessment HF or HHF events	HF or HHF outcome adjudicated	Blinded HF or HHF outcome adjudication	Industry funded
Trials reporting heart failure							
Arjona Ferreira (2013) ^a ^{35,36}	Low	Unclear	Low	Low	Yes	NR	Yes
Arjona Ferreira (2013) ^b ^{37,38}	Low	Unclear	Low	Low	Yes	NR	Yes
Bosi (2011) ³⁹	Unclear	Unclear	Low	Low	NR	NR	Yes
Ferrannini (2009) ⁴⁰	Unclear	Unclear	Low	Low	Yes	Yes	Yes
Fonseca (2013) ⁴¹	Unclear	Unclear	Low	Low	Yes	NR	Yes
Garber (2007) ⁴²	Unclear	Unclear	Low	Low	NR	NR	Yes
Henry (2014) ^{43,44}	Unclear	Unclear	Low	Low	NR	NR	Yes
Iwamoto (2010) ^{45,46}	Low	Low	Low	Low	NR	NR	Yes
NCT00094770 (2009) ⁴⁷⁻⁴⁹	Low	Unclear	Low	Low	NR	NR	Yes
NCT00103857 (2009) ^{50,51}	Unclear	Unclear	Low	Low	NR	NR	Yes
NCT00121641 (2011) ^{52,53}	Unclear	Unclear	Low	Low	NR	NR	Yes
NCT00121667 (2011) ^{54,55}	Low	Low	Low	Low	NR	NR	Yes
NCT00286442 (2011) ^{56,57}	Low	Low	Low	Low	NR	NR	Yes
NCT00286468 (2011) ^{58,59}	Low	Unclear	Low	Low	NR	NR	Yes
NCT00295633 (2009) ⁶⁰⁻⁶²	Low	Low	Low	Low	NR	NR	Yes
NCT00327015 (2009) ⁶³⁻⁶⁵	Low	Low	Low	Low	NR	NR	Yes
NCT00395343 (2009) ^{66,67}	Low	Unclear	Low	Low	NR	NR	Yes
NCT00482729 (2009) ⁶⁸⁻⁷⁰	Unclear	Unclear	Low	Low	NR	NR	Yes
NCT00575588 (2010) ⁷¹⁻⁷³	Unclear	Unclear	Low	Low	NR	NR	Yes
NCT00614939 (2010) ⁷⁴⁻⁷⁶	Low	Low	Low	Low	NR	NR	Yes
NCT00622284 (2011) ^{77,78}	Low	Low	Low	Low	Yes	Yes	Yes

NCT00642278 (2013) ^{79,80}	Unclear	Unclear	Low	Low	NR	NR	Yes
NCT00707993 (2013) ^{81,82}	Unclear	Unclear	Low	Low	NR	NR	Yes
NCT00757588 (2011) ^{83,84}	Low	Low	Low	Low	NR	NR	Yes
NCT00798161 (2011) ^{85,86}	Unclear	Unclear	Low	Low	NR	NR	Yes
NCT00838903 (2014) ^{87,88}	Unclear	Unclear	Low	Low	Yes	NR	Yes
NCT00856284 (2013) ^{89,90}	Unclear	Unclear	Low	Low	Yes	Yes	Yes
NCT00954447 (2012) ⁹¹	Unclear	Unclear	Low	Low	NR	NR	Yes
NCT01006603 (2013) ⁹²	Unclear	Unclear	Low	Low	NR	NR	Yes
NCT01189890 (2013) ⁹³	Unclear	Unclear	Low	Low	NR	NR	Yes
NCT01263483 (2011) ^{94,95}	Low	Low	Low	Low	NR	NR	Yes
NCT01289990 (2014) ⁹⁶	Unclear	Unclear	Low	Low	NR	NR	Yes
Pratley (2009) ^{97,98}	Low	Low	Low	Low	NR	NR	Yes
Pratley (2014) ⁹⁹	Unclear	Unclear	Low	Low	Yes	Yes	Yes
Rosenstock (2006) ¹⁰⁰	Unclear	Unclear	Low	Low	NR	NR	Yes
Rosenstock (2010) ¹⁰¹	Unclear	Unclear	Low	Low	NR	NR	Yes
Seino (2012) ¹⁰²	Low	Low	Low	Low	NR	NR	Yes
Yang (2015) ¹⁰³	Unclear	Unclear	Low	Low	NR	NR	Yes
Trials reporting hospital admission for heart failure							
Green (2015) (TECOS) ¹²	Low	Low	Low	Low	Yes	Yes	Yes
Krum (2014) (VIVID) ¹⁰⁴	Unclear	Unclear	Unclear	Unclear	Yes	NR	Yes
Laakso (2015) ¹⁰⁵	Unclear	Unclear	Low	Low	Yes	NR	Yes
Scirica (2013) (SAVOR-TIMI 53) ^{9,106}	Low	Low	Low	Low	Yes	Yes	Yes
Zannad (2015) (EXAMINE) ^{11,107,108}	Unclear	Unclear	Low	Low	Yes	Yes	Yes

HF: heart failure; HHF: hospital admission for heart failure; Low: low risk of bias; High: high risk of bias; Unclear: unclear risk of bias; NR: not reported.