

Table1 Assessment of risks of bias within included studies

Studies	Random sequence generation	Allocation concealment	Blinding of participants and personnel	Blinding of outcome assessment	Incomplete outcome data	Selective reporting	Other sources of bias	Risk of bias
Ling 2010	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Liu 2005	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Xiang 2009	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Zhou 2010	Computer randomization	Unclear	Unclear	Unclear	No	No	Unclear	Unclear
Cui 2013	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Pang 2012	Unclear	Unclear	Unclear	Unclear	Yes	No	Unclear	High
Zhang 2008	Stratified random	Unclear	Unclear	Unclear	No	No	Unclear	Unclear
Zhang 2012	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Zhang 2009	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Zeng 2011	Random number table	Unclear	Unclear	Unclear	No	No	Unclear	Unclear
Li 2011	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Yan 2008	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Yan 2007	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Yan 2011	Unclear	Unclear	Unclear	Unclear	Yes	No	Unclear	High
Lin 2005	Random number table	Unclear	Unclear	Unclear	No	No	Unclear	Unclear
Lin 2008	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High

Lin 2012	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Lin 2009	Random number table	Unclear	Unclear	Unclear	No	No	Unclear	Unclear
Jiang 2012	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Wang 2009	Random number table	Unclear	Unclear	Unclear	No	No	Unclear	Unclear
Tian 2009	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Bai 2012	Random number table	Unclear	Unclear	Unclear	No	No	Unclear	Unclear
Di 2010	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Rong 2013	Stratified random allocation	Unclear	Unclear	Unclear	No	No	Unclear	Unclear
Chi 2010	Random number table	Unclear	Unclear	Unclear	No	No	Unclear	Unclear
Deng 2004	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Zheng 2010	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Lu 2011	Parallel control study	Unclear	Unclear	Unclear	No	No	Unclear	Unclear
Chen 2009	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Chen 2005	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Chen 2005	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Chen 2012	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Han 2009	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Gu 2011	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High

Tang 2014	Random number table	Unclear	Unclear	Unclear	No	No	Unclear	Unclear
Zhang 2014	Parallel control study	Unclear	Unclear	Unclear	No	No	Unclear	Unclear
Tan 2014	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Shang 2014	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Qiao 2014	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Li 2014	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Qin 2014	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Tang 2014	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Wang 2014	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
Wang 2014	Unclear	Unclear	Unclear	Unclear	No	No	Unclear	High
