Study	Selection bias	Study design	Data collection	Global rating
Abrishami A et al. (35)	Moderate	Retrospective	strong	moderate
Aggarwal S et al. (36)	Weak	Retrospective	Low	Low
Alberici F et al. (37)	Strong	Retrospective	Low	low
Argenziano GM et al. (38)	Weak	Retrospective	Moderate	Moderate
Arshad S et al. (39)	Moderate	Retrospective	Strong	Moderate
Bezzio C et al. (40)	Strong	Prospective	Moderate	moderate
Borba MGS et al. (41)	Strong	Prospective RCT	Strong	moderate
Burns GP et al. (42)	Strong	Retrospective	Low	low
Campochiaro C et al. (43)	Strong	Retrospective	Strong	Moderate
Cao B et al. (44)	moderate	Prospective	moderate	moderate
Capra R et al. (45)	Moderate	Retrospective	Moderate	Moderate
Cheng Y et al. (46)	Weak	Retrospective	Strong	Strong
Chilimuri S et al. (47)	Moderate	Retrospective	Moderate	Moderate
Chung MS et al. (48)	weak	Retrospective	Strong	strong
Cui X et al. (49)	Moderate	Retrospective	Moderate	Moderate
De Smet R et al. (50)	moderate	Retrospective	low	low
Du RH et al. (51)	Weak	Prospective	Strong	Strong
Feng Y et al. (52)	weak	Retrospective	Strong	strong
Gao S et al. (53)	moderate	Retrospective	Strong	moderate
Gregoriano C et al. (54)	Weak	Retrospective	Strong	strong
Grein J et al. (55)	Strong	Retrospective	Moderate	moderate
Hong KS et al. (56)	Weak	retrospective	Strong	strong
Huang M et al (57)	Strong	Retrospective	Strong	Moderate
Inciardi M et al. (58)	Weak	retrospective	Strong	Strong
Israelsen SB et al. (59)	Weak	Retrospective	Strong	strong
Itelman E et al. (60)	Weak	Retrospective	Moderate	Moderate
Jang JG et al. (61)	Moderate	retrospective	Strong	moderate
Lagi F et al. (62)	Weak	Retrospective	Strong	Strong
Lecronier M et al. (63)	Moderate	Retrospective	moderate	moderate
Lewnard JA et al. (64)	Weak	Prospective	Moderate	Moderate
Li L et al .(65)	Moderate	Prospective	Strong	moderate
Li R et al. (66)	Moderate	Retrospective	Low	Low
Li X et al. (67)	Strong	retrospective	low	low
Liu X et al. (68) *	Strong	retrospective	Strong	moderate
McMichael TM et al. (69)	moderate	Retrospective	moderate	moderate
Meng Y et al. (70)	moderate	Retrospective	Strong	moderate
Miyashita S et al. (71)	Strong	Retrospective	Strong	Moderate
Moghaddam A et al. (72)	Moderate	Retrospective	Low	Low
Morena V et al. (73)	Strong	prospective	Moderate	moderate
Myrstad M et al. (74)	Moderate	Prospective	Low	low
Na KR et al. (75)	Strong	Retrospective	Low	low
Nightingale R et al. (76)	strong	Retrospective	moderate	Low
Nikpouraghdam M et al (77)	Weak	Retrospective	Low	Low
Nowak B et al. (78)	Weak	Retrospective	Moderate	moderate
Pan F et al. (79)	Strong	Retrospective	Moderate	Low
Pei G et al. (80)	Weak	Retrospective	Moderate	Moderate
Pellaud C et al. (81)	Moderate	Retrospective	Low	Low
Rastrelli G et al. (15)	Strong	Retrospective	Strong	moderate
Ren H et al. (82)	Weak	Retrospective	Moderate	moderate
Ruan Q et al. (83)	moderate	Retrospective	Strong	moderate
Satlin MJ et al. (84)	Strong	Retrospective	Moderate	low
Senkal N et al. (85)	Strong	Retrospective	Strong	Moderate
Shao F et al. (86)	Strong	Retrospective	moderate	low
Shi Y et al. (87)	Weak	Retrospective	Low	Low
Smith AA et al. (88)	Moderate	Retrospective	Low	Low
Song JW et al. (89)	Moderate	Prospective	Strong	Moderate
Steinberg E et al. (90)	Weak	Retrospective	Low	Low
Tang N et a. (91)	Weak	Retrospective	Low	Low
Tharakan S et al. (92)	Weak	Retrospective	Low	Low
Trigo J et al. (93)	Weak	Retrospective	Strong	Strong
Vuagnat P et al. (94)	Strong	Prospective	Moderate	Low
Wang B et al. (95)	Strong	Retrospective	Moderate	low
Wang L et al. (96)	moderate	Retrospective	Strong	moderate
Wang L et al. (97)°	Weak	Retrospective	Low	Low
Wang Y et al. (98)	Moderate	Retrospective	Strong	Moderate
Xie J et al. (99)	Moderate	Retrospective	Strong	Moderate
Xu J et al. (100)	Strong	Retrospective	Moderate	low
Xu PP et al. (101)	Moderate	Retrospective	Strong	Moderate
Xu X et al. (102)	Strong	Retrospective	moderate	low
Yan Y et al. (103)	Moderate	Retrospective	Strong	Moderate

Yang BY et al. (104)	Moderate	Retrospective	Moderate	Moderate
Yang Q et al. (105)	Weak	Retrospective	Moderate	Moderate
Yang X et al. (106)	Weak	Retrospective	Weak	Moderate
Ye W et al. (107)	Strong	Retrospective	Moderate	low
Yuan M et al. (108)	Weak	Retrospective	Low	Low
Zhang G (109)	Moderate	Retrospective	Strong	Moderate
Zhang J et al. (110)	Weak	Retrospective	Moderate	Moderate
Zhang J et al. (111)°	Weak	Retrospective	Strong	strong
Zhang L et al. (112)	Moderate	Retrospective	Strong	Moderate
Zhang P et al. (113)*	weak	Retrospective	Strong	strong
Zhang S et al. (114)	Weak	Retrospective	Strong	strong
Zhang SY et al. (115)	Weak	Retrospective	Moderate	Moderate
Zhao XY et al. (116)	Moderate	Retrospective	Moderate	Moderate
Zhou F et al. (1)	Weak	Retrospective	Strong	Strong
Zhu L et al., (6)*	Strong	Retrospective	moderate	low
Zhu L et al. (117)°	Strong	Retrospective	Moderate	Low
Zou X et al. (118)	Weak	Retrospective	Moderate	Moderate

Supplementary Table 1. Quality assessment of the clinical studies included in the meta-analysis. * = same study cohort, different groups; ** = same study cohort, different groups;° same name but different study