

Clinical studies

Table 22: Studies excluded from the clinical review

Reference	Reason for exclusion
Abdelaziz 2020 ¹	Incorrect study design
Abdelghani 2020 ²	Insufficient analysis and incorrect prognostic factor
Abramowitz 2017 ³	Incorrect population
Abramowitz 2017 ⁴	Incorrect prognostic factors
Agasthi 2020 ⁵	Insufficient reporting of prognostic factor definitions
Akin 2010 ⁷	Incorrect study design - narrative review
Ali 2015 ¹¹	Incorrect outcome and prognostic factors
Ancona 2017 ¹²	Incorrect prognostic factors
Anger 2014 ¹³	Incorrect outcome
Annabi 2018 ¹⁴	Incorrect study design - narrative review
Anyanwu 2006 ¹⁵	Incorrect study design - narrative review
Aquaro 2017 ¹⁶	Incorrect study design
Azevedo 2010 ¹⁷	Incorrect prognostic factors
Azzalini 2014 ¹⁸	Incorrect outcome prognostic factors
Balciunaite 2020 ¹⁹	Protocol only
Balciunaite 2020 ²⁰	Incorrect study design - SR that did not identify many studies identified by this review
Barkagan 2017 ²¹	Incorrect outcome and prognostic factors
Beclle 2020 ²³	Incorrect prognostic factor: CAD not by CT and thoracic aortic not valve calcium
Bekeredjian 2015 ²⁴	Incorrect outcome
Berger 2014 ²⁵	Incorrect study design - narrative review
Bettinger 2017 ²⁶	Incorrect outcome and prognostic factor
Bing 2019 ²⁷	Incorrect study design - protocol only and no results published yet
Bing 2020 ²⁸	Incorrect comparison - infarct LGE vs no or non-infarct
Borger 2004 ²⁹	Incorrect prognostic factor
Bosmans 2016 ³⁰	Incorrect outcome
Broyd 2018 ³¹	Incorrect population
Buckert 2018 ³²	Incorrect prognostic factor and analysis
Buellesfeld 2014 ³³	Incorrect outcome
Butter 2019 ³⁴	Incorrect outcome
Calin 2020 ³⁵	Incorrect study design - narrative review
Capoulade 2015 ³⁶	Incorrect study design - narrative review

Reference	Reason for exclusion
Carmona 2020 ³⁷	Incorrect prognostic factors - none matching protocol
Carrabba 2008 ³⁸	Incorrect population and prognostic factors
Carrero 2019 ³⁹	Incorrect prognostic factors - none matching protocol
Caivancante 2017 ⁴¹	Incorrect prognostic factor
Caivancante 2018 ⁴²	Incorrect study design - narrative review
Chaikriangkrai 2014 ⁴³	Incorrect prognostic factor
Chambers 2017 ⁴⁴	Incorrect study design - narrative review
Chan 2011 ⁴⁵	Incorrect prognostic factors
Chen 2018 ⁴⁶	More recent SR available and insufficient reporting of included study characteristics. References checked.
Chew 2018 ⁴⁷	Incorrect study design - narrative review
Chew 2019 ⁴⁸	Incorrect prognostic factor
Chiang 1998 ⁴⁹	Incorrect outcome
Chieffo 2016 ⁵¹	Incorrect prognostic factors
Chieffo 2018 ⁵⁰	Incorrect prognostic factors
Chin 2016 ⁵²	Incorrect prognostic factor
Chin 2017 ⁵³	Incorrect analysis - unadjusted results only and sufficient studies with multivariate results for this prognostic factor
Cho 2017 ⁵⁴	Incorrect prognostic factor
Choi 2020 ⁵⁵	Incorrect prognostic factors - none matching protocol
Chourdakis 2018 ⁵⁶	Incorrect study design - narrative review
Ciobotaru 2016 ⁵⁸	Incorrect outcome
Cioffi 2011 ⁵⁹	Incorrect prognostic factors
Citro 2018 ⁶⁰	Incorrect study design - protocol only and no results published.
Clavel 2015 ⁶¹	Incorrect prognostic factors
Connelly 2017 ⁶⁴	Incorrect study design - narrative review
Cortes 2016 ⁶⁵	Incorrect prognostic factors and outcome
Czepluch 2016 ⁶⁶	Incorrect prognostic factor and outcomes
Dahya 2016 ⁶⁹	Incorrect prognostic factor and outcomes
Damluji 2020 ⁷⁰	Incorrect prognostic factors - none matching protocol
D'Ancona 2017 ⁶⁷	Incorrect comparison
D'Arcy 2011 ⁶⁸	Abstract only
Delgado 2018 ⁷¹	Incorrect study design - narrative review
Della Corte 2019 ⁷²	Incorrect study design - narrative review
Dencker 2016 ⁷³	Incorrect prognostic factor and outcome
Di Martino 2015 ⁷⁴	Incorrect outcome
Di Pasquale 2017 ⁷⁵	Incorrect study design - narrative review
Diab 2008 ⁷⁶	Incorrect study design - narrative review
Dichtl 2008 ⁷⁷	Incorrect prognostic factor
Dinh 2010 ⁷⁸	Incorrect prognostic factor
Dobson 2016 ⁷⁹	Incorrect outcome
Duncan 2012 ⁸⁰	Incorrect study design - narrative review
Dvir 2013 ⁸¹	Incorrect study design - narrative review
Dvir 2017 ⁸²	Incorrect population and study design

Reference	Reason for exclusion
Dweck 2013 ⁸³	Incorrect study design - narrative review
Eberhard 2017 ⁸⁵	Incorrect prognostic factor
Emerson 2015 ⁸⁶	Incorrect prognostic factor
Escarcega 2016 ⁸⁷	Incorrect prognostic factor
Ewe 2011 ⁸⁹	Incorrect outcome
Ferreira-Neto 2019 ⁹⁰	Incorrect prognostic factor
Feuchtner 2006 ⁹²	Incorrect outcome
Feuchtner 2013 ⁹¹	Incorrect outcome
Feyz 2018 ⁹³	Incorrect population and prognostic factor
Flett 2012 ⁹⁵	Incorrect outcome
Fonseca 2016 ⁹⁶	Incorrect outcomes
Fraccaro 2011 ⁹⁷	Incorrect outcome
Fujimiya 2019 ⁹⁸	Incorrect outcomes
Fukui 2020 ⁹⁹	Incorrect prognostic factors
Fusini 2015 ¹⁰⁰	Incorrect study design and prognostic factors
Galvao Braga 2014 ¹⁰¹	Not in English language
Gegenava 2020 ¹⁰²	Incorrect prognostic factors - none matching protocol
Gelfand 2007 ¹⁰⁴	Incorrect study design - narrative review
Gelfand 2010 ¹⁰³	Insufficient reporting of prognostic analysis
Girdauskas 2017 ¹⁰⁵	Incorrect outcome
Goenka 2014 ¹⁰⁶	Incorrect study design - narrative review
Guerrero 2016 ¹⁰⁷	Incorrect study design:
Haensig 2012 ¹⁰⁹	Incorrect prognostic factor
Haensig 2016 ¹⁰⁸	Incorrect outcome
Hallett 2016 ¹¹⁰	Incorrect study design - narrative review
Hamdan 2015 ¹¹¹	Incorrect prognostic factors and outcomes
Hansson 2016 ¹¹²	Incorrect prognostic factors and outcomes
Hansson 2017 ¹¹³	Incorrect prognostic factors and study design
Harbaoui 2016 ¹¹⁴	Incorrect prognostic factor
Harris 2017 ¹¹⁵	Incorrect population
Hayashida 2012 ¹¹⁶	Incorrect study design and prognostic factors
Hein-Rothweiler 2017 ¹¹⁷	Incorrect outcome
Herrmann 2011 ¹¹⁹	Incorrect study design and prognostic factors
Hiendlmayr 2016 ¹²⁰	Incorrect study design - narrative review
Holy 2020 ¹²¹	Incorrect prognostic factors - none matching protocol
Huther 2011 ¹²²	Incorrect population
Hwang 2017 ¹²⁴	Incorrect prognostic factors and outcome
Hwang 2020 ¹²⁵	Incorrect prognostic factors - none matching protocol
Jabbour 2011 ¹²⁶	Incorrect prognostic factor and outcomes
Jilaihawi 2014 ¹²⁸	Incorrect outcome
Jilaihawi 2016 ¹²⁷	Incorrect prognostic factors

Reference	Reason for exclusion
Kaleschke 2011 ¹²⁹	Incorrect study design - narrative review
Kammerlander 2019 ¹³⁰	Incorrect population
Kaneko 2017 ¹³¹	Incorrect outcome
Khalique 2014 ¹³²	Incorrect outcome
Kim 2018 ¹³³	Incorrect prognostic factor
Kim 2018 ¹³⁵	Incorrect study design - narrative review
Kim 2020 ¹³⁴	Incorrect prognostic factors - none matching protocol
Kinnel 2020 ¹³⁶	Incorrect prognostic factors - none matching protocol
Kitkungvan 2018 ¹³⁷	Incorrect prognostic factors and outcomes
Ko 2020 ¹³⁸	Incorrect prognostic factors and outcomes
Kochman 2016 ¹³⁹	Incorrect prognostic factors and outcomes
Koh 2015 ¹⁴¹	Incorrect outcome
Kong 2016 ¹⁴²	Incorrect outcome
Koos 2011 ¹⁴³	Incorrect outcome
Koos 2013 ¹⁴⁴	Insufficient data reported
Kumar 2010 ¹⁴⁵	Incorrect study design - narrative review
Kusunose 2017 ¹⁴⁶	Incorrect prognostic factors
Kwon 2016 ¹⁴⁷	Incorrect prognostic factors
Laissy 2011 ¹⁴⁸	Incorrect study design - narrative review
Lancellotti 2017 ¹⁴⁹	Incorrect study design - narrative review
Lantelme 2019 ¹⁵⁰	Incorrect prognostic factors
Larroche 2020 ¹⁵¹	Incorrect prognostic factor
Latsios 2010 ¹⁵³	Incorrect outcomes
Leber 2013 ¹⁵⁴	Incorrect prognostic factor
Lee 2020 ¹⁵⁶	Incorrect analysis - unadjusted results only for prognostic factors matching protocol and sufficient studies with multivariate results for this prognostic factor
Lella 2015 ¹⁵⁷	Incorrect population <50% HVD and not stratified
Lindsay 2015 ¹⁵⁹	Incorrect prognostic factors
Liu 2017 ¹⁶⁰	Incorrect study design - protocol only and no results published
Liu 2019 ¹⁶¹	Incorrect study design - narrative review
Maeno 2017 ¹⁶³	Incorrect prognostic factor
Malahfji 2019 ¹⁶⁴	Incorrect study design - narrative review
Mamane 2016 ¹⁶⁵	Incorrect prognostic factor
Markowiak 2019 ¹⁶⁶	Incorrect prognostic factor and outcomes
Marwan 2013 ¹⁶⁷	Incorrect outcome
Masri 2016 ¹⁶⁸	Incorrect prognostic factor
Masri 2016 ¹⁶⁹	Incorrect population
Massaro 2016 ¹⁷⁰	Incorrect outcome
Massera 2019 ¹⁷¹	Incorrect study design, prognostic factors and outcomes
Matsumoto 2014 ¹⁷²	Incorrect prognostic factor
Matsushita 2020 ¹⁷³	Incorrect prognostic factors and outcomes
Mehta 2017 ¹⁷⁴	Incorrect study design - narrative review

Reference	Reason for exclusion
Mejean 2016 ¹⁷⁵	Incorrect outcome and prognostic factors
Merten 2013 ¹⁷⁶	Incorrect study design
Messika-Zeitoun 2004 ¹⁷⁷	Incorrect population
Michelena 2015 ¹⁷⁸	Incorrect study design - narrative review
Mistiaen 2004 ¹⁷⁹	Incorrect prognostic factors and outcome
Mohty 2013 ¹⁸⁰	Incorrect prognostic factors
Mojazi-Amiri 2013 ¹⁸¹	Incorrect study design - narrative review
Mok 2016 ¹⁸²	Incorrect prognostic factors
Mordi 2015 ¹⁸³	Incorrect population
Morosin 2017 ¹⁸⁴	Incorrect prognostic factors
Mrsic 2019 ¹⁸⁵	Incorrect study design - narrative review
Musa 2016 ¹⁸⁶	Incorrect study design - narrative review
Musa 2016 ¹⁰	Incorrect prognostic factors
Musa 2017 ¹⁸⁸	Incorrect analysis - unadjusted results only and sufficient studies with multivariate results for this prognostic factor
Myerson 2012 ¹⁸⁹	Incorrect study design - narrative review
Mylotte 2014 ¹⁹²	Incorrect prognostic factor
Nadjiri 2016 ¹⁹³	Incorrect prognostic factor
Naoum 2017 ¹⁹⁴	Incorrect study design - narrative review
Natarajan 2017 ¹⁹⁵	Incorrect study design - narrative review
Nchimi 2018 ¹⁹⁷	Systematic review - references checked
Neisius 2020 ¹⁹⁸	Incorrect outcome
Nigri 2006 ²⁰⁰	Incorrect study design - narrative review
Nigri 2006 ²⁰¹	Incorrect study design
Ochiai 1999 ²⁰³	Incorrect study design
Oh 2020 ²⁰⁴	Incorrect prognostic factors - none matching protocol
Okuno 2020 ²⁰⁵	Incorrect prognostic factors - none matching protocol
O'Neal 2015 ²⁰²	Incorrect population
Orme 2014 ²⁰⁶	Incorrect prognostic factors
Paknikar 2016 ²⁰⁷	Incorrect prognostic factor
Papanastasiou 2020 ²⁰⁸	Systematic review - references checked
Park 2014 ²⁰⁹	Incorrect outcomes
Park 2018 ²¹⁰	Incorrect prognostic factor and outcome
Podlesnikar 2018 ²¹⁴	Incorrect study design - narrative review
Pohle 2004 ²¹⁵	Incorrect population
Pollari 2019 ²¹⁶	Incorrect outcomes
Pollari 2020 ²¹⁷	Incorrect prognostic factors and outcomes
Possner 2016 ²¹⁸	Incorrect prognostic factors
Prabhakar 2020 ²¹⁹	Narrative review - references checked
Pulignano 2017 ²²⁰	Incorrect study design - narrative review
Putra 2019 ²²¹	Incorrect prognostic factor

Reference	Reason for exclusion
Quarto 2012 ²²²	Incorrect analysis - unadjusted results only and sufficient studies with multivariate results for this prognostic factor
Raggi 2011 ²²³	Incorrect population
Rajani 2014 ²²⁴	Incorrect study design - narrative review
Raju 2019 ²²⁶	Incorrect prognostic factors - none matching protocol
Ramana 2019 ²²⁷	Incorrect study design
Rangarajan 2016 ²²⁸	Incorrect population and prognostic factor
Reddy 2017 ²²⁹	Incorrect study design
Reinders 2015 ²³⁰	Incorrect outcomes, prognostic factors and insufficient reporting
Reinthalter 2015 ²³¹	Incorrect prognostic factor
Revilla-Orodea 2016 ²³²	Incorrect population
Ribeiro 2016 ²³³	Incorrect study design
Rodrigues 2016 ²³⁴	Incorrect prognostic factors
Rodriguez-Olivares 2016 ²³⁵	Incorrect prognostic factor and outcome
Rosenhek 2000 ²³⁶	Incorrect prognostic factors
Rozenbaum 2019 ²³⁸	Incorrect prognostic factor
Rozenbaum 2020 ²³⁷	Incorrect prognostic factors - none matching protocol
Rys 2018 ²³⁹	Incorrect outcome
Saji 2016 ²⁴⁰	Incorrect prognostic factor
Sakrana 2016 ²⁴¹	Incorrect outcome
Sales Mda 2014 ²⁴²	Incorrect prognostic factor
Sanati 2017 ²⁴³	Incorrect prognostic factor and outcomes
Schymik 2017 ²⁴⁴	Incorrect prognostic factors
Seiffert 2016 ²⁴⁵	Incorrect prognostic factor and outcomes
Seldrum 2019 ²⁴⁶	Insufficient reporting of prognostic variable definition for MR; incorrect prognostic factor and outcome for AR
Shah 2014 ²⁴⁷	Incorrect prognostic factor
Shen 2020 ²⁴⁸	Incorrect prognostic factors - none matching protocol
Shimizu 2015 ²⁴⁹	Incorrect population
Showkathali 2015 ²⁵⁰	Incorrect prognostic factor
Sigvardsen 2018 ²⁵¹	Incorrect prognostic factor
Singh 2013 ²⁵²	Incorrect prognostic factors
Singh 2017 ²⁵³	Incorrect prognostic factors
Soulat 2017 ²⁵⁴	Incorrect study design and outcomes
Souza 2016 ²⁵⁵	Incorrect prognostic factor
Spaziano 2018 ²⁵⁶	Incorrect prognostic factor
Stahli 2015 ²⁵⁷	Incorrect prognostic factor and outcome
Stahli 2015 ²⁵⁸	Incorrect study design and prognostic factor
Staniloae 2019 ²⁵⁹	Incorrect study design
Steadman 2012 ²⁶⁰	Incorrect outcomes

Reference	Reason for exclusion
Stundl 2020 ²⁶¹	No prognostic data
Suh 2019 ²⁶²	Incorrect prognostic factors - none matching protocol
Suh 2019 ²⁶³	Incorrect outcome
Szekely 2020 ²⁶⁴	Incorrect prognostic factors - none matching protocol
Szilveszter 2020 ²⁶⁵	Incorrect prognostic factors - none matching protocol
Takami 2016 ²⁶⁶	Incorrect prognostic factor
Takeda 2011 ²⁶⁷	Incorrect prognostic factors and insufficient reporting
Taniguchi 2020 ²⁶⁸	Incorrect prognostic factors and outcomes
Tokuda 2020 ²⁶⁹	Incorrect prognostic factors - none matching protocol
Treibel 2016 ²⁷⁰	Incorrect prognostic factors
Tsang 2012 ²⁷¹	Incorrect population
Tsutsumi 2016 ²⁷²	Incorrect outcome
Tzemos 2008 ²⁷³	Incorrect population and prognostic factors
Uretsky 2020 ²⁷⁴	Incorrect prognostic factors and outcomes
Vahanian 2010 ²⁷⁶	Incorrect study design - narrative review
Valenti 2015 ²⁷⁷	Incorrect prognostic variable and outcome
Valkov 2016 ²⁷⁸	Incorrect study design - narrative review
van Kesteren 2017 ²⁸⁰	Incorrect prognostic factor
van Kesteren 2018 ²⁷⁹	Incorrect outcome
van Mourik 2019 ²⁸¹	Incorrect prognostic factor
Velu 2019 ²⁸²	Incorrect prognostic factor
Watanabe 2015 ²⁸³	Incorrect prognostic factors
Weidemann 2009 ²⁸⁴	Insufficient reporting
Weissman 2009 ²⁸⁵	Incorrect study design - narrative review
Wenaweser 2011 ²⁸⁶	Incorrect prognostic factors
Wong 2013 ²⁸⁷	Incorrect population, outcome and prognostic factor
Yanagisawa 2017 ²⁸⁸	Incorrect prognostic factor
Yanagisawa 2019 ²⁸⁹	Incorrect prognostic factor and outcome
Yildirim 2007 ²⁹⁰	Incorrect study design - no follow-up of patient outcomes
Zamorano 2019 ²⁹²	Not in English language
Zhan 2020 ²⁹³	Incorrect prognostic factors: none listed in protocol
Zhang 2020 ²⁹⁴	Incorrect population - already had intervention
Zhu 2015 ²⁹⁵	Incorrect analysis - correlation only