




## Supplement 7| Bias Risk Assessment

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)
Collins 2011 (IDEAL substudy)_HD planned	+	?	?	+	+	+
Cooper 2010 (IDEAL trial)_HD or PD	+	?	?	+	+	+
Harris 2010 (IDEAL substudy)_HD or PD	+	?	?	+	-	?
Whalley 2013 (IDEAL substudy)_HD or PD	+	?	?	?	?	?

	Participant comparability	Selection of participants	Confounding variables	Measurement of exposure	Blinding of outcome assessments	Outcome evaluation	Incomplete outcome data	Selective reporting
Chang 2012	+	?	?	+	?	+	?	?
Clark 2011	+	+	?	?	?	+	?	?
Hwang 2010	+	-	-	+	-	-	?	-
Kazmi 2005	+	+	?	+	?	+	?	?
Korevaar 2001	+	?	?	?	?	+	+	+
Lassalle 2010	+	+	+	+	?	+	?	?
Traynor 2002	+	-	?	+	?	+	?	?
Wright 2010	+	+	?	?	?	+	?	?
Zhang 2018	+	+	?	+	?	+	?	?

	High risk of bias		Unclear risk of bias		Low risk of bias
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Key question 1.1.




**Key question 1.2.**

	Participant comparability	Selection of participants	Confounding variables	Measurement of exposure	Blinding of outcome assessments	Outcome evaluation	Incomplete outcome data	Selective reporting
Arhuidese 2019	⊖	?	?	?	+	⊖	?	?
Bae 2018	⊖	?	?	?	+	⊖	?	?
Kim 2020	⊖	⊖	?	?	+	⊖	?	?
Ozeki 2017	⊖	⊖	?	?	+	⊖	?	?
Saleh 2017	⊖	?	?	?	+	⊖	?	?

⊖ High risk of bias   
 ? Unclear risk of bias   
 + Low risk of bias

## Key question 2.1.




	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)
Dember (2019)	High risk of bias	High risk of bias	High risk of bias	Low risk of bias	Unclear risk of bias	Low risk of bias
Lowrie (1981)	High risk of bias	Unclear risk of bias	High risk of bias	Unclear risk of bias	Unclear risk of bias	Unclear risk of bias

 Low risk of bias	 Unclear risk of bias	 High risk of bias
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## Key question 2.2.

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)
Eknoyan 2002	?	+	+	+	+	+

	Participant comparability	Selection of participants	Confounding variables	Measurement of exposure	Blinding of outcome assessments	Outcome evaluation	Incomplete outcome data	Selective reporting
Bloembergen 1996	+	+	?	+	?	+	+	+
Chertow 1999	+	+	-	+	?	?	+	?
Held 1996	+	+	?	+	?	+	?	?
Hong 2019	+	+	?	+	?	+	+	?
Port 2002	+	+	?	+	?	+	?	?
Port 2004	+	+	-	+	?	+	?	+
Ramirez 2012	+	+	?	+	?	+	?	?
Salahudeen 2003	+	+	?	+	?	?	?	?
Shinzato 1996	+	+	-	+	?	+	?	?
Termorshuizen 2004	+	+	?	+	?	+	-	+
Wolfe 2000	+	+	-	+	?	+	?	?

 High risk of bias	 Unclear risk of bias	 Low risk of bias
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### Key question 3.1.

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Ayi 2005	?	?	●	?	+	+	?
Chazot 2015	+	?	?	?	●	?	?
EGE Study 2013	+	?	?	?	+	+	?
HEMO 2002	+	+	?	+	+	+	+
Klemm 2004	?	?	●	?	+	●	●
Kuchle 1996	?	?	●	?	+	+	?
Lang 2001	●	●	●	?	?	●	?
Li 2010	+	+	●	?	+	+	●
Locatelli 1996	?	+	●	?	+	+	+
Locatelli 2000	?	?	●	●	+	?	+
MPO 2009	+	+	?	●	+	+	+
Simon 1993	?	?	●	?	+	+	?

● High risk of bias    ? Unclear risk of bias    + Low risk of bias

### Key question 3.2.




	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Maduell 2013	+	?	-	-	-	+	-
Morena 2017	?	?	?	?	-	-	?
Ok 2013	?	?	-	-	-	+	?

 High risk of bias	 Unclear risk of bias	 Low risk of bias
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<b>AMSTART criteria</b>	<b>Suwabe (2018)</b>
Was an 'a priori' design provided?	Yes
Was there duplicate study selection and data extraction?	Yes
Was a comprehensive literature search performed?	Yes
Was the status of publication (i.e. grey literature) used as an inclusion criterion?	No
Was a list of studies (included and excluded) provided?	No
Were the characteristics of the included studies provided?	Yes
Was the scientific quality of the included studies assessed and documented?	Yes
Was the scientific quality of the included studies used appropriately in formulating conclusions?	Yes
Were the methods used to combine the findings of studies appropriate?	Yes
Was the likelihood of publication bias assessed?	Yes
Was the conflict of interest stated?	No
Total	9

### Key question 4.1.




	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Bambauer 1990	?	?	-	+	+	+	+
Lord 2002	?	?	-	+	+	+	+
Nurmohamed 1991	?	?	?	+	+	+	+
Saltissi 1999	?	?	-	+	+	+	+
Schrader 1988	?	?	-	+	+	+	-
Stefoni 2002	?	?	-	+	+	+	+

 High risk of bias    
  Unclear risk of bias    
  Low risk of bias



**Key question 4.2.**

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Kim 2004	-	-	-	-	+	+	
Yang 2009	-	-	-	-	-	+	

 High risk of bias	 Unclear risk of bias	 Low risk of bias
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### Key question 5.1.

	Participants comparability	Selection of participants	Confounding variable	Measurement of exposure	Blinding of outcome assessment (detection bias)	Outcome evaluation	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)
Dantas 2019	+	+	-	+	+	+	+	+
Foley 2002	+	+	-	+	?	?	?	+
Hecking 2018	+	+	-	+	+	+	-	+
Kalantar 2009	+	+	-	+	+	?	?	+
Kurita 2017	+	+	-	+	+	+	+	+
Lee 2014	+	+	-	+	+	+	+	+
Leggat 1998	+	+	-	+	+	?	?	+
Saran 2003	+	+	-	+	+	+	+	+
Stefansson 2014	+	+	-	+	+	+	+	+
Stegmayr 2006	+	+	-	+	?	?	?	+
Toida 2017	+	+	-	+	+	+	+	+
Wong 2017	+	+	-	+	+	+	+	+

 High risk of bias     
  Unclear risk of bias     
  Low risk of bias

## Key question 5.2.

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias	
Beduschi 2013	+	?	?	?	?	+	+	
Boquin 1977	+	?	+	?	-	+	-	
Liu 2016	+	?	-	+	?	+	-	
								Participant comparability
Akyol (2017)	+	-	?	+	-	+	?	Selection of Participants
Arramreddy (2012)	+	+	?	+	-	+	?	Confounding variables
Kooman (2000)	?	?	?	?	-	-	?	Measurement of exposure
Sayarlioglu (2007)	+	+	?	?	-	-	?	Blinding of outcome assessment (detection bias)
Zhou (2013)	+	+	?	+	-	+	?	Outcome evaluation
								Incomplete outcome data
								Selective reporting

 High risk of bias	 Unclear risk of bias	 Low risk of bias
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**Key question 6.1.**

Not applicable

## Key question 6.2.

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Ayoub 2004	?	?	⊖	?	?	?	⊖
Chesterton 2009	?	?	⊖	⊖	?	?	⊖
Fine 1996	?	+	⊖	⊖	+	+	⊖
Jefferies 2011	?	?	⊖	?	+	?	⊖
Jost 1993	?	?	⊖	?	+	?	⊖
Maggiore 2002	?	+	⊖	⊖	⊖	?	⊖
Selby 2006	?	?	⊖	⊖	?	?	⊖

	Participant comparability	Selection of participants	Confounding variables	Measurement of exposure	Blinding of outcome assessments	Outcome evaluation	Incomplete outcome data	Selective reporting
Azar 2009	⊖	+	?	+	⊖	⊖	?	?
Cruz 1999	⊖	+	?	+	⊖	⊖	⊖	?
Hegbrant 1994	⊖	+	?	+	⊖	⊖	?	?




 High risk of bias	 Unclear risk of bias	 Low risk of bias
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**Key question 7.1.**

Not applicable

### Key question 8.1.

	Participant comparability	Selection of participants	Confounding variable	Measurement of exposure	Blinding of outcome assessments	Outcome evaluation	Incomplete outcome data	Selecting reporting
Brown 2015	+	+	+	+	+	+	?	?
Carson 2009	+	+	-	+	+	+	?	?
July 2003	+	+	-	+	+	+	?	?
Murtagh 2007	+	+	-	+	+	+	?	?
Pyart 2020	+	+	-	+	+	+	?	?
Raman 2017	+	+	+	+	+	+	?	?
Reindl-Schwaighofer 2017	-	+	-	+	+	-	-	+
Smith 2003	-	?	-	+	?	+	-	+
Tam-Tham 2018	+	+	?	+	+	+	?	?
Tam-Tham 2020	+	+	+	+	+	+	+	+
van Loon 2019	+	+	+	+	+	+	+	+
Verberne 2016	+	+	-	+	+	+	?	?

 High risk of bias	 Unclear risk of bias	 Low risk of bias
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AMSTART criteria	Foote (2016)	Wongrakpanich (2017)
Was an 'a priori' design provided?	Yes	Yes
Was there duplicate study selection and data extraction?	Yes	Yes

Was a comprehensive literature search performed?	Yes	Yes
Was the status of publication (i.e. grey literature) used as an inclusion criterion?	Yes	Yes
Was a list of studies (included and excluded) provided?	Yes	Yes
Were the characteristics of the included studies provided?	Yes	Yes
Was the scientific quality of the included studies assessed and documented?	Yes	Yes
Was the scientific quality of the included studies used appropriately in formulating conclusions?	Yes	Yes
Were the methods used to combine the findings of studies appropriate?	Yes	Yes
Was the likelihood of publication bias assessed?	Yes	No
Was the conflict of interest stated?	No	No
Total	10	9

**Key question 8.2.**

Not applicable