SF8: Risk of Bias and confidence in cumulative evidence assessments

Supplementary table 8A. Risk of Bias assessments per study. Assessments were made for each outcome in a study with the mode value selected and presented here. In the case of non-randomised studies, the first two domains (randomisation, allocation concealment) were judged as high risk as there was no control over allocation; the remaining domains were judged as for randomised studies.

Author, Year (reference)	Random sequence generatio n	Allocatio n concealm ent	Blinding of participa nts/perso nnel	Blinding of outcome assessme nt	Incomple te outcome bias	Selective reporting	Other bias**
Agregaard et al 2021 ¹	Low risk	Low risk	High risk	Low risk	Low risk	Low risk	High risk
Agregaard et al 2021 ²	Low risk	Low risk	High risk	Low risk	Low risk	Low risk	Unclear
Alfredson et al 1998 ³	High risk	Unclear	High risk	Unclear	Low risk	Unclear	High risk
Alfredson et al 1999 ⁴	High risk	High risk	Unclear	Unclear	Low risk	Unclear	High risk
Arias- Buría et al 2015 ⁵	Low risk	Low risk	High risk	Low risk	Low risk	Unclear	Low risk
Arias- Buría et al 2017 ⁶	Low risk	Low risk	Unclear	Low risk	Unclear	Low risk	High risk
Bagcier et al 2021 ⁷	Low risk	Unclear	Low risk	Low risk	Low risk	Low risk	Low risk
Bahr et al 2006 ⁸	Low risk	Low risk	High risk	Low risk	Low risk	Unclear	Low risk
Balius et al 20169	Low risk	Low risk	Unclear	Low risk	Low risk	Unclear	Low risk
Berg et al 2021 ¹⁰	Low risk	Unclear	Unclear	Unclear	Low risk	Low risk	High risk
Beyer et al 2015 ¹¹	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk	High risk
Blume et al 2015 ¹²	Unclear	Low risk	Low risk	Low risk	Low risk	Unclear	Low risk
Boudreau et al 2019 ¹³	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
Breda et al 2020 ¹⁴	Low risk	Low risk	High risk	Low risk	Low risk	High risk	High risk
Breda et al 2022 ¹⁵	Low risk	Low risk	High risk	Low risk	Low risk	Low risk	High risk
Chaconas et al 2017 ¹⁶	Low risk	Unclear	Unclear	Low risk	High risk	Unclear	High risk
Cheng et al 2007 ¹⁷	High risk	High risk	Unclear	Unclear	Unclear	Unclear	High risk
Cho et al 2017 ¹⁸	High risk	High risk	Unclear	Unclear	Low risk	Low risk	Unclear

Author, Year (reference)	Random sequence generatio n	Allocatio n concealm ent	Blinding of participa nts/perso nnel	Blinding of outcome assessme nt	Incomple te outcome bias	Selective reporting	Other bias**
Christians en et al 2021 ¹⁹	Low risk	Low risk	Unclear	Unclear	Low risk	Low risk	High risk
Corum et al 2021 ²⁰	Low risk	Low risk	High risk	Low risk	High risk	Low risk	High risk
de Jonge et al 2008 ²¹	Unclear	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
de Vos et al 2007 ²²	Low risk	Unclear	Low risk	Low risk	Unclear	Low risk	High risk
Dejaco et al 2017 ²³	Low risk	Low risk	Low risk	Low risk	Low risk	High risk	Low risk
Dimitrios et al 2012 ²⁴	High risk	High risk	Low risk	Low risk	Low risk	Unclear	High risk
Dimitrios et al 2012 ²⁵	High risk	High risk	Low risk	Low risk	Low risk	Unclear	High risk
Dogan et al 2021 ²⁶	Unclear	Unclear	Unclear	Unclear	Unclear	Unclear	High risk
Dupuis et al 2018 ²⁷	Low risk	Low risk	High risk	Low risk	Low risk	Low risk	High risk
Eliason et al 2021 ²⁸	High risk	Low risk	Low risk	Low risk	Low risk	Low risk	High risk
Ganderto n et al 2018 ²⁹	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk	High risk
Gatz et al 2020 ³⁰	Low risk	Low risk	Low risk	Low risk	Unclear	Unclear	High risk
Giray et al 2019 ³¹	Low risk	Low risk	High risk	Low risk	Low risk	Low risk	High risk
Habets et al 2021 ³²	Low risk	Low risk	Unclear	Low risk	Low risk	Low risk	Low risk
Hallgren et al 2014 ³³	High risk	Low risk	High risk	Low risk	Unclear	Low risk	Low risk
Hallgren et al 2017³⁴	Unclear	Unclear	Low risk	Low risk	Low risk	Low risk	Low risk
Heron et al 2017 ³⁵	Low risk	Low risk	Low risk	Low risk	High risk	High risk	Low risk
Hopewell et al 2021 ³⁶	Low risk	Low risk	High risk	Low risk	Low risk	Low risk	Low risk
Hotta et al 2020 ³⁷	Low risk	Low risk	High risk	Low risk	Low risk	Low risk	High risk
Johansson et al 2005 ³⁸	Low risk	Unclear	Unclear	Low risk	Low risk	Unclear	High risk

Author, Year (reference) *	Random sequence generatio n	Allocatio n concealm ent	Blinding of participa nts/perso nnel	Blinding of outcome assessme nt	Incomple te outcome bias	Selective reporting	Other bias**
Jonsson 2009 ³⁹	Unclear	Unclear	Unclear	Unclear	Unclear	Unclear	Unclear
Ketola et al 2009 ⁴⁰	Low risk	Low risk	Unclear	Low risk	Low risk	Unclear	High risk
Knobloch et al 2007 ⁴¹	Low risk	Low risk	Unclear	Unclear	High risk	Unclear	High risk
Knobloch et al 2007 ⁴²	Unclear	Unclear	High risk	Low risk	Unclear	Unclear	High risk
Knobloch et al 2008 ⁴³	Unclear	Low risk	Unclear	Unclear	Unclear	Unclear	High risk
Kongsgaar d et al ⁴⁴	Low risk	Low risk	High risk	Low risk	Low risk	Unclear	Low risk
Kromer et al 2013 ⁴⁵	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
Kromer et al 2014 ⁴⁶	Low risk	Low risk	High risk	High risk	Low risk	Low risk	Low risk
Littlewoo d et al 2016 ⁴⁷	Low risk	Low risk	High risk	High risk	Unclear	Unclear	High risk
Luginbuhl et al 2008 ⁴⁸	Unclear	Unclear	Unclear	Unclear	Unclear	Unclear	High risk
Maenhout et al 2013 ⁴⁹	Unclear	High risk	High risk	High risk	Low risk	Unclear	Low risk
Mafi et al 2001 ⁵⁰	Low risk	Unclear	Unclear	Unclear	Unclear	Unclear	High risk
Manias et al 2006 ⁵¹	High risk	High risk	High risk	High risk	Low risk	Unclear	Unclear
Martinez- Silvestrini et al 2005 ⁵²	Unclear	Unclear	Unclear	Unclear	Low risk	Unclear	High risk
Marzetti et al 2014 ⁵³	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
McCorma ck et al 2016 ⁵⁴	Low risk	Low risk	Unclear	Unclear	Low risk	Low risk	Low risk
Mulligan et al 2016 ⁵⁵	Low risk	Low risk	Low risk	Low risk	Low risk	Unclear	High risk
Nørregaar d et al 2007 ⁵⁶	Low risk	Low risk	Unclear	Unclear	Unclear	Unclear	High risk

Author, Year (reference)	Random sequence generatio n	Allocatio n concealm ent	Blinding of participa nts/perso nnel	Blinding of outcome assessme nt	Incomple te outcome bias	Selective reporting	Other bias**
Nowotny et al 2018 ⁵⁷	Low risk	Unclear	Low risk	Low risk	High risk	Unclear	High risk
Østerås et al 2010 ⁵⁸	Low risk	Low risk	High risk	High risk	Low risk	Unclear	High risk
Park et al 2010 ⁵⁹	Low risk	Unclear	Unclear	Unclear	Unclear	Unclear	High risk
Pearson et al 2012 ⁶⁰	Unclear	Unclear	High risk	Unclear	Low risk	Unclear	High risk
Pearson et al 2018 ⁶¹	Low risk	Low risk	High risk	Low risk	Low risk	Low risk	High risk
Pekyavas et al 2016 ⁶²	Low risk	Low risk	High risk	Low risk	Unclear	Unclear	Low risk
Petersen et al 2007 ⁶³	Low risk	Unclear	Unclear	Unclear	Unclear	Unclear	High risk
Peterson et al 2011 ⁶⁴	Low risk	Low risk	Unclear	High risk	Low risk	Low risk	Low risk
Peterson et al 2014 ⁶⁵	Low risk	Unclear	Low risk	High risk	Low risk	Low risk	Low risk
Praet et al 2019 ⁶⁶	Low risk	Low risk	Low risk	Low risk	Low risk	Unclear	Low risk
Rabusin et al 2020 ⁶⁷	Low risk	Low risk	High risk	High risk	Low risk	Low risk	High risk
Rabusin et al 2021 ⁶⁸	Low risk	Low risk	High risk	High risk	Low risk	Low risk	High risk
Rio et al 2017 ⁶⁹	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk	High risk
Romero- Morales et al 2020 ⁷⁰	Unclear	Unclear	Unclear	Unclear	Low risk	Low risk	High risk
Rompe et al 2007 ⁷¹	Low risk	Low risk	Unclear	Low risk	Low risk	Unclear	Low risk
Rompe et al 2008 ⁷²	Low risk	Low risk	Unclear	Low risk	Low risk	Unclear	Unclear
Rompe et al 2009 ⁷³	Unclear	Low risk	High risk	High risk	Low risk	Unclear	Low risk
Rompe et al 2009 ⁷⁴	Low risk	Low risk	High risk	Low risk	Low risk	Unclear	Low risk
Roos et al 2004 ⁷⁵	Low risk	Unclear	Unclear	Low risk	Low risk	Unclear	Low risk
Ruffino et al 2021 ⁷⁶	Low risk	Low risk	High risk	Low risk	Low risk	Unclear	High risk
Sahbaz et al 2021 ⁷⁷	Low risk	Unclear	Unclear	Unclear	Low risk	Low risk	Unclear
Schydlowsk y 2022 ⁷⁸	Unclear	Low risk	High risk	Low risk	Low risk	Low risk	High risk

Author, Year (reference)	Random sequence generatio n	Allocatio n concealm ent	Blinding of participa nts/perso nnel	Blinding of outcome assessme nt	Incomple te outcome bias	Selective reporting	Other bias**
Şenbursa et al 2011 ⁷⁹	Low risk	Unclear	Unclear	Unclear	Low risk	Unclear	Low risk
Sevier et al 2015 ⁸⁰	Low risk	Unclear	High risk	High risk	High risk	Unclear	High risk
Shim et al 2021 ⁸¹	Low risk	Low risk	High risk	Low risk	Low risk	Unclear	High risk
Silbernage l et al 2001 ⁸²	Unclear	Unclear	Unclear	Unclear	Unclear	Unclear	High risk
Silbernage l et al 2007 ⁸³	Low risk	Low risk	High risk	High risk	Low risk	Unclear	Low risk
Simşek et al 2013 ⁸⁴	Unclear	Unclear	Unclear	Low risk	Unclear	Unclear	Unclear
Slider et al 2013 ⁸⁵	Low risk	Unclear	Low risk	Low risk	Low risk	Unclear	Unclear
Solomons et al 2020 ⁸⁶	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
Stasinopo ulos 2013 ⁸⁷	High risk	High risk	High risk	Low risk	Low risk	Unclear	High risk
Stasinopo ulos et al 2006 ⁸⁸	High risk	High risk	Unclear	Low risk	Low risk	Unclear	High risk
Stasinopo ulos et al 2010 ⁸⁹	High risk	High risk	Low risk	Low risk	Low risk	Unclear	High risk
Stasinopo ulos et al 2017 ⁹⁰	Low risk	Unclear	Low risk	Low risk	Low risk	Unclear	High risk
Stefansson et al 2019 ⁹¹	Low risk	Unclear	High risk	Low risk	High risk	Unclear	Low risk
Steunebri nk et al 2013 ⁹²	Low risk	Low risk	Low risk	Low risk	Low risk	Unclear	Low risk
Stevens et al 2014 ⁹³	Unclear	Unclear	High risk	High risk	Unclear	Unclear	High risk
Svernlov et al 2001 ⁹⁴	High risk	High risk	Unclear	Unclear	Unclear	Unclear	High risk
Tonks et al 2007 ⁹⁵	Low risk	Low risk	Low risk	High risk	High risk	Low risk	Low risk
Turgut et al 2017%	Low risk	Unclear	Unclear	Unclear	High risk	Unclear	Low risk
Vallés- Carrascosa	Low risk	Low risk	Low risk	High risk	Low risk	Low risk	High risk

Author, Year (reference)	Random sequence generatio n	Allocatio n concealm ent	Blinding of participa nts/perso nnel	Blinding of outcome assessme nt	Incomple te outcome bias	Selective reporting	Other bias**
et al 2018 ⁹⁷							
vanArk et al 2016 ⁹⁸	Low risk	Low risk	Low risk	Unclear	Unclear	Low risk	Low risk
Vinuesa- Montoya et al 2017 ⁹⁹	Low risk	Low risk	High risk	Low risk	Low risk	Low risk	Low risk
Visnes et al 2005 ¹⁰⁰	Low risk	Low risk	High risk	Low risk	Unclear	Unclear	Unclear
Vuvan et al 2019 ¹⁰¹	Low risk	Low risk	High risk	High risk	Low risk	Low risk	Low risk
Walther et al 2004 ¹⁰²	Unclear	Unclear	Unclear	Unclear	Low risk	Unclear	Unclear
Wegener et al 2016 ¹⁰³	Low risk	Low risk	High risk	Low risk	Low risk	Unclear	High risk
Wen et al 2011 ¹⁰⁴	Unclear	Unclear	Low risk	Unclear	High risk	Unclear	High risk
Werner et al 2002 ¹⁰⁵	Low risk	Unclear	Unclear	Unclear	Unclear	Unclear	High risk
Wiedman n et al 2017 ¹⁰⁶	Low risk	Low risk	Unclear	Unclear	Unclear	Unclear	High risk
Yelland et al 2011 ¹⁰⁷	Low risk	Low risk	High risk	Low risk	Low risk	Unclear	Low risk
Yilmaz et al 2022 ¹⁰⁸	Unclear	Low risk	Unclear	Low risk	Low risk	Unclear	High risk
Young et al 2005 ¹⁰⁹	Unclear	Unclear	High risk	Low risk	High risk	Unclear	High risk
Yu et al 2013 ¹¹⁰	Low risk	Low risk	Low risk	Unclear	Low risk	Unclear	Unclear

^{*}Included studies reference list in supplementary SF7-B.

- Measurement of the outcome differed between intervention groups. Outcomes would
 usually be comparable across intervention groups in studies with pre-specific outcomes.
 For example: does one treatment group result in more frequent clinic visits (e.g., home
 exercise program vs. physiotherapy-led treatment)?
- Inappropriate outcome measurement tools used and/or uncertainty in their validity and reliability e.g., self-reported measures may have higher risk of bias than clinically observed outcomes.
- Design-specific bias:
 - O Duration of follow-up that is different across comparison groups within a study, this difference could be a source of bias.

^{**}Note: The "other bias" category captures any bias not covered in the other domains. Specifically in this review we used the examples below to help with judging "other bias". Criteria for 'High risk' on assessing "other bias" include:

- o The issue of study populations that are systematically different between comparison groups within a study (e.g., important baseline imbalances) may be a source of bias; the population selected for the focus of the study (e.g., inclusion and exclusion criteria) would need to be considered.
- Failure of study to maintain fidelity to the intervention protocol resulting in performance bias.
- Conflict of Interest from Sponsor Bias resulting in:
 - The selection of designs and hypotheses; choosing non-inferiority rather than superiority approaches, picking comparison drugs and doses, choosing outcomes, or using composite endpoints (e.g., quality of life) without presenting data on individual endpoints.
 - O Selective outcome reporting e.g., "cherry-picking" from multiple endpoints.
 - o Biased presentation of results.
 - o Publication bias.

Supplementary table 8B. Overall RoB and confidence in cumulative evidence assessment for moderator levels in meta-regression investigating resistance exercise intensity.

Moderator	Model	Overall RoB	Inconsistency	Imprecision	Indirectness	Small study-	Confidence
		KOD				effects	Evidence
Intensity:	All	Low risk	Low risk	High risk	Low risk	High	Low
Body mass	tendinopathies/					risk	
	Large-effects						
Intensity:	All	Low risk	Low risk	Low risk	Low risk	High	Moderate
Additional	tendinopathies/					risk	
	Large-effects						
Intensity:	Achilles/	Low risk	Low risk	High risk	Low risk	High	Low
Body mass	Large-effects					risk	
Intensity:	Achilles /	Low risk	Low risk	High risk	Low risk	High	Low
Additional	Large-effects					risk	
Intensity:	RCRSP/	Low risk	Low risk	High risk	Low risk	High	Low
Body mass	Large-effects					risk	
Intensity:	RCRSP/	Low risk	Low risk	Low risk	Low risk	High	Moderate
Additional	Large-effects					risk	
Intensity:	Patellar/	Low risk	High risk	High risk	Low risk	High	Very low
Body mass	Large-effects	T 11		TT: 1 : 1		risk	
Intensity:	Patellar/	Low risk	Low risk	High risk	Low risk	High	Low
Additional	Large-effects					risk	
Intensity:	A11	Low risk	Low risk	High risk	Low risk	High	Low
Body mass	tendinopathies/	LOW HOR	LOW HOR	11181111111	130 W 1131C	risk	Low.
Douy mass	Small-effects					11011	
Intensity:	All	Low risk	Low risk	Low risk	Low risk	High	Moderate
Additional	tendinopathies/					risk	
	Small -effects						
Intensity:	Achilles/	Low risk	High risk	High risk	Low risk	High	Very low
Body mass	Small-effects					risk	·
Intensity:	Achilles /	Low risk	High risk	High risk	Low risk	High	Very low
Additional	Small-effects					risk	
Intensity:	RCRSP /	Low risk	High risk	High risk	Low risk	High	Very low
Body mass	Small-effects					risk	
Intensity:	RCRSP /	Low risk	Low risk	Low risk	Low risk	High	Moderate
Additional	Small-effects					risk	

Supplementary table 8C. Overall RoB and confidence in cumulative evidence assessment for moderator levels in meta-regression investigating resistance exercise frequency.

Moderator	Model	Overall RoB	Inconsistency	Imprecision	Indirectness	Small study- effects	Confidence in evidence
Frequency: Less than daily	All tendinopathies/ Large-effects	Low risk	High risk	High risk	Low risk	High risk	Low
Frequency: Daily	All tendinopathies/ Large-effects	Low risk	Low risk	Low risk	Low risk	High risk	Moderate
Frequency: More than once per day	All tendinopathies/ Large-effects	Low risk	Low risk	Low risk	Low risk	High risk	Moderate
Frequency: Less than daily	Achilles/ Large-effects	Low risk	High risk	High risk	Low risk	High risk	Very low
Frequency: Daily	Achilles/ Large-effects	Low risk	Low risk	High risk	Low risk	High risk	Low
Frequency: More than once per day	Achilles/ Large-effects	Low risk	Low risk	Low risk	Low risk	High risk	Moderate
Frequency: Less than daily	RCRSP/ Large-effects	Low risk	Low risk	Low risk	Low risk	High risk	Moderate
Frequency: Daily	RCRSP/ Large-effects	Low risk	Low risk	Low risk	Low risk	High risk	Moderate
Frequency: More than once per day	RCRSP/ Large-effects	Low risk	Low risk	High risk	Low risk	High risk	Low
Frequency: Less than daily	All tendinopathies/	Low risk	High risk	High risk	Low risk	High risk	Very low
Frequency: Daily	All tendinopathies/ Small-effects	Low risk	Low risk	High risk	Low risk	High risk	Low
Frequency: More than once per day	All tendinopathies/ Small-effects	Low risk	Low risk	Low risk	Low risk	High risk	Moderate
Frequency: Less than daily	Achilles/ Small-effects	Low risk	High risk	High risk	Low risk	High risk	Very low
Frequency: Daily	Achilles/ Small-effects	Low risk	Low risk	High risk	Low risk	High risk	Low
Frequency: More than once per day	Achilles/ Small-effects	High risk	High risk	Low risk	Low risk	High risk	Very low
Frequency: Less than daily	RCRSP/ Small-effects	Low risk	Low risk	Low risk	Low risk	High risk	Moderate
Frequency: Daily	RCRSP/ Small-effects	Low risk	High risk	High risk	Low risk	High risk	Very low

Frequency:	RCRSP/	Low risk	Low risk	High risk	Low risk	High	Low	ĺ
More than	Small-effects					risk		ĺ
once per								ĺ
day								l

Supplementary table 8D. Overall RoB and confidence in cumulative evidence assessment for moderator levels in meta-regression investigating resistance exercise volume.

Moderator	Model	Overall RoB	Inconsistency	Imprecision	Indirectness	Small study-	Confidence in evidence
		KOD				effects	in evidence
Volume: Low	All tendinopathies/ Large-effects	Low risk	Low risk	Low risk	Low risk	High risk	Moderate
Volume: High	All tendinopathies/ Large-effects	Low risk	Low risk	Low risk	Low risk	High risk	Moderate
Volume: Low	Achilles/ Large-effects	Low risk	High risk	High risk	Low risk	Low risk	Low
Volume: High	Achilles / Large-effects	Low risk	Low risk	Low risk	Low risk	High risk	Moderate
Volume: Low	RCRSP/ Large-effects	Low risk	Low risk	Low risk	Low risk	High risk	Moderate
Volume: High	RCRSP/ Large-effects	Low risk	Low risk	Low risk	Low risk	High risk	Moderate
Volume: Low	Patellar/ Large-effects	Low risk	Low risk	High risk	Low risk	High risk	Low
Volume: High	Patellar/ Large-effects	Low risk	Low risk	High risk	Low risk	High risk	Low
Volume: Low	Elbow/ Large-effects	Low risk	Low risk	High risk	Low risk	High risk	Low
Volume: High	Elbow/ Large-effects	Low risk	Low risk	High risk	Low risk	High risk	Low
Volume: Low	All tendinopathies/ Small-effects	Low risk	Low risk	Low risk	Low risk	High risk	Moderate
Volume: High	All tendinopathies/ Small-effects	Low risk	Low risk	Low risk	Low risk	High risk	Moderate
Volume: Low	RCRSP/ Small-effects	Low risk	Low risk	Low risk	Low risk	High risk	Moderate
Volume: High	RCRSP/ Small-effects	Low risk	Low risk	High risk	Low risk	High risk	Low
Volume: Low	Patellar/ Small-effects	Low risk	Low risk	High risk	Low risk	High risk	Low
Volume: High	Patellar/ Small-effects	Low risk	Low risk	High risk	Low risk	High risk	Low