

	1	2	3	4	5	6	7	8	9	10	11	12	
Arbon 2001	+	+	+	-	+	+	-	+	?	-	?	-	1. Same outcome definition and method for measurement in all patients?
Bowdish 1992	+	+	+	-	-	-	-	?	?	-	-	-	2. Outcome assessed blinded for candidate predictors?
FitzGibbon 2017*	-	+	+	-	+	-	-	?					3. Candidate predictors part of the outcome?
Grange 1999	+	+	+	-	+	-	-	?	+	+	-	-	4. Predictors assessed blinded for outcome, and for each other?
Locoh-Donou 2016	+	+	+	-	+	-	-	?	?	+	+	-	5. Appropriate handling of predictors in the modelling?
Milsten 2003	-	+	+	-	+	-	-	+	?	+	?	-	6. Number of participants with any missing value?
Morimura 2004	+	+	+	-	+	-	-	?	?	+	?	-	7. Number of participants with missing data for each predictor?
Nable 2014*	+	+	+	-	+	-	-	?					8. Appropriate handling of missing data?
Tan 2014	+	+	+	-	+	-	-	?	?	+	?	-	9. Modelling assumptions satisfied?
Westrol 2017	+	+	+	-	+	+	-	+	?	+	+	-	10. Method for selection of predictors for inclusion in multivariable modelling?
Woodall 2010	+	+	+	-	+	-	-	?	+	+	?	-	11. Method for selection of predictors during multivariable modelling?
Zeitz 2005*	+	+	+	-	+	-	-	?					12. Shrinkage of predictor weights or regression coefficients?

Figure 1. Risk of bias assessment of included studies, based on the CHARMS checklist.

⊕ Low risk of bias, ⊖ high risk of bias, ? unclear.

* External validation studies; modelling criteria not applicable.