Supplemental information 2

Risk of bias assessment

Two authors (EK/DG) independently assessed the potential assessed risk of bias of the studies included using the MINORS, a methodological index for non-randomised studies. The items were scored 0 if not reported; 1 when reported but inadequate; and 2 when reported and adequate. The global ideal score was 16 for non-comparative studies and 24 for comparative studies (supplemental information 2). As a higher event rate allows to give a more precise estimate of the influence of studied determinants we chose to select the number of events to include in our risk of bias assessment (score 2: A for >500 events, B for 100-500 events and C if less events occurred), and together with the presence of revisits as primary outcome measure (score 1: A for revisits as primary outcome and B if not) the total risk of bias was assessed (supplemental information 3). We considered low risk of bias when studies fulfilling all MINORS criteria; or studies scored a minimum of two A's in score 1 and 2; or studies scored a minimum of B in score 1, 2 and MINORS. We considered high risk of bias in all other studies (supplemental information 3). If only abstracts were available they were automatically judged to be at high risk of bias. Consensus was reached by the two reviewers (EK/DG) when there was difference in opinion on an item. If no consensus was reached, the independent opinion of a third reviewer was decisive (RO).

Data analysis - best-evidence synthesis

A narrative 'best-evidence' synthesis based on the study of Tulder et al.(11) was carried out, as meta-analysis of results was not possible owing to heterogeneity in participants, interventions, outcome measures and methodological quality.(11) We performed separate syntheses for the two separated study aims. Strong evidence was defined as two or more studies with low risk of bias and generally consistent findings in all studies (≥75% of the studies reported consistent findings). Moderate evidence was defined as one study with low risk of bias and/or two or more studies with high risk of bias and generally consistent results. Limited evidence was defined as generally consistent findings were found in one study with high risk of bias. Conflicting evidence was defined as less than 75% of the studies reported consistent findings.

Table 1: individual MINORS score

	Clearly stated aim	Inclusion of consecutive patients	Prospective data collection	Endpoints appropriate to study aim	Unbiased assessment of study endpoint	Follow-up period appropriate to study aim	<5% lost to follow-up	Prospective calculation of study size	Adequate control group	Contemporary groups	Baseline equivalence of groups	Adequate statistical analyses	Total
Alessandrini 2004 ²	2	2	1	2	2	2	2	0	NA	NA	NA	NA	13/16
Ali 2012 ³	2	1	2	2	2	2	1	0	NA	NA	NA	NA	12/16
Angoulvant 2013 ⁴	2	1	2	2	1	2	1	0	NA	NA	NA	NA	11/16
Augustine 2013 ⁵	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Baker 2009 ⁶	2	1	2	2	2	1	2	2	2	2	2	2	22/24
Berry 2013 ⁷	2	1	1	2	2	1	2	0	NA	NA	NA	NA	11/16
Black 2010 ⁸	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bloch 2013 ⁹	2	2	2	2	2	2	1	0	2	2	2	2	21/24
Browne 2001 ¹⁰	2	2	2	2	2	1	2	0	2	1	2	2	20/24
Callery 2010 ¹¹	2	2	1	2	2	2	2	0	NA	NA	NA	NA	13/16
Chang 2008 ¹²	2	1	1	2	2	2	0	0	2	2	2	2	18/24
Considine 2007 ¹³	2	1	2	2	2	2	2	0	2	2	2	2	21/24
DePiero 2002 ¹⁴	2	2	1	2	2	2	2	0	NA	NA	NA	NA	13/16
Dunlop 2005 ¹⁵	2	2	1	2	2	0	2	0	NA	NA	NA	NA	11/16
Easter 2012 ¹⁶	2	2	1	2	2	2	1	0	NA	NA	NA	NA	12/16
Fagbuyi 2011 ¹⁷	2	2	2	2	2	2	2	0	2	1	2	2	21/24
Florin 2013 ¹⁸	2	2	1	2	2	2	2	0	NA	NA	NA	NA	13/16
Freedman 2013 ¹⁹	2	2	1	2	2	2	1	1	NA	NA	NA	NA	13/16
Gallagher 2013 ²⁰	2	2	1	2	2	2	2	0	NA	NA	NA	NA	13/16

Gaucher 2012 ²¹	2	2	1	2	2	2	2	1	NA	NA	NA	NA	14/16
Goldman 2006 ²²	2	2	1	2	2	2	2	0	2	2	2	2	21/24
Goldman 2011 ²³	2	2	1	2	2	2	2	0	2	2	2	1	20/24
Gregor 2009 ²⁴	2	2	2	2	2	2	1	2	NA	NA	NA	NA	15/16
Horne 1995 ²⁵	2	2	2	2	2	2	1	0	NA	NA	NA	NA	13/16
Hacking 2012 ²⁶	NA												
Ismail 2013 ²⁷	NA												
Jacobstein 2005 ²⁸	2	2	1	2	2	2	1	2	2	2	2	2	22/24
Jain 2010 ²⁹	2	2	1	2	2	2	2	0	2	2	2	2	21/24
Klein-Kremer 2011 ³⁰	2	2	1	2	2	2	1	0	2	2	2	2	20/24
Lal et al. 1999 ³¹	1	2	2	2	2	2	2	0	NA	NA	NA	NA	13/16
Lawrence 2009 ³²	2	2	1	2	2	2	2	0	2	1	2	2	20/24
LeDuc 2006 ³³	2	1	1	2	2	2	1	0	NA	NA	NA	NA	11/16
Liberman 2012 ³⁴	2	1	1	2	2	2	1	2	NA	NA	NA	NA	13/16
Logue 2013 ³⁵	2	1	1	2	2	2	1	0	NA	NA	NA	NA	11/16
Maguire 2011 ³⁶	2	2	2	2	1	0	1	0	NA	NA	NA	NA	10/16
Mansbach 2008 ³⁷	2	2	2	2	2	2	1	0	2	2	2	2	21/24
Michelson 2012 ³⁸	2	2	1	2	2	2	2	0	NA	NA	NA	NA	11/16
Mintegui 2000 ³⁹	NA												
Mistry 2007 ⁴⁰	2	1	2	2	2	2	1	2	NA	NA	NA	NA	14/16
Mistry 2009 ⁴¹	2	2	2	2	2	2	1	2	NA	NA	NA	NA	15/16
Moineau 2004 ⁴²	NA												
Roback 1997 ⁴³	2	2	1	2	2	2	2	1	2	2	2	2	22/24
O'Loughlin 2012 ⁴⁴	2	1	1	2	1	2	1	0	NA	NA	NA	NA	10/16
O'Neill 2001 ⁴⁵	2	0	1	1	1	1	0	0	NA	NA	NA	NA	6/16
Patel 2009 ⁴⁶	2	1	2	2	2	2	1	2	1	2	2	2	21/24
Porter 2000 ⁴⁷	2	1	2	2	2	0	1	0	NA	NA	NA	NA	10/16
Roland 2011 ⁴⁸	NA												

Roggen 2012 ⁴⁹	NA												
Samuels-Kalow 2013 ⁵⁰	NA												
Sartain 2002 ⁵¹	2	1	2	2	2	1	2	2	2	2	2	2	22/24
Scarfone 1996 ⁵²	2	1	2	2	2	2	2	0	NA	NA	NA	NA	13/16
Seow 2007 ⁵³	2	2	1	2	2	2	2	0	NA	NA	NA	NA	13/16
Simmons 2012 ⁵⁴	NA												
Small 2005 ⁵⁵	2	2	2	2	2	2	2	2	2	2	2	2	24/24
Yang 2012 ⁵⁶	2	2	2	2	2	2	1	0	2	1	2	2	20/24
Zimmerman 1996 ⁵⁷	2	2	1	2	2	2	2	0	NA	NA	NA	NA	13/16

Table 2.1: Risk of bias assessment

Score 1: Revisit	primary outcome	Score 2: Number	of events (revisits)	Score 3: MINORS score			
Yes	A	>500	A	16 or 24	A		
No	В	100-500	В	>12 - <16	В		
				or >20 - <24			
		<100	С	≤12 or ≤20	С		

Risk of bias (low/ high)

Low risk of bias:

- 1. Studies fulfilling all MINORS criteria (A)
- 2. Full article with a minimum of 2 A's in score 1 and 2
- 3. Minimum of B in score 1, 2 and MINORS

High risk of bias:

1. all other studies

Table 2.2: Risk of bias assessment

Author Year Country	Revisits primary outcome	Score 1	N outcome (revisits)	Score 2	MINORS quality score*	Score 3	Risk of bias (low/ high)
Alessandrini 2004 USA	Yes	A	1,893	A	13/16	В	Low risk of bias
Ali 2012 USA	Yes	A	124	В	12/16	С	High risk of bias
Angoulvant 2012 France	Yes	A	206	В	11/16	С	High risk of bias
Augustine 2013 USA	Yes	A	13	В	NA	NA	High risk of bias
Baker 2009 USA	Yes	A	105	В	22/24	В	Low risk of bias
Berry 2013 USA	Yes	A	36,734	A	11/16	С	Low risk of bias
Black 2010 UK	Yes	A	91	С	NA	NA	High risk of bias
Bloch 2013 USA	No	В	216	В	21/24	В	Low risk of bias
Browne 2001 Australia	Yes	A	240	В	20/24	С	High risk of bias
Callery 2010 UK	Yes	A	2,433	A	13/16	В	Low risk of bias
Chang 2008 Taiwan	No	В	188	В	18/24	В	Low risk of bias

Considine 2007 Australia	No	В	15	С	21/24	В	High risk of bias
DePiero 2002 USA	Yes	A	261	В	13/16	В	Low risk of bias
Dunlop 2005 Australia	No	В	35	С	11/16	С	High risk of bias
Easter 2012 USA	Yes	A	1,091	A	12/16	С	Low risk of bias
Fagbuyi 2011 USA	No	В	620	A	21/24	С	High risk of bias
Florin 2013 USA	Yes	A	6,439	A	13/16	В	Low risk of bias
Freedman 2013	Yes	A	543	A	13/16	В	Low risk of bias
Canada Gallagher 2013 USA	Yes	A	1,499	A	13/16	В	Low risk of bias
Gaucher 2012 Canada	No	В	2,534	A	14/16	В	Low risk of bias
Goldman 2006	Yes	A	1,990	A	21/24	В	Low risk of bias
Canada Goldman 2011 Canada	Yes	A	353	В	20/24	С	High risk of bias
Hacking 2012	Yes	A	130	В	NA	NA	High risk of bias
UK Gregor 2009	No	В	49	С	15/16	В	High risk of bias
USA Horne 1995	No	В	171	В	14/16	В	Low risk of bias
USA Ismail 2013 USA	No	В	63	С	NA	NA	High risk of bias
Jacobstein 2005 USA	Yes	A	165	В	22/24	В	Low risk of bias
Jain 2010 USA	No	В	17,335	A	21/24	В	Low risk of bias
Klein-Kremer 2011 Canada	Yes	A	92	С	20/24	С	High risk of bias
Lal et al. 1999 UK	Yes	A	65	С	13/16	В	High risk of bias
Lawrence 2009 USA	Yes	A	979	A	20/24	С	High risk of bias
LeDuc 2006 USA	Yes	A	237	В	11/16	С	High risk of bias
Liberman 2012 USA	No	В	189	В	13/16	В	Low risk of bias
Logue 2013 Canada	Yes	A	261	В	11/16	С	High risk of bias

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Maguire 2011 UK	No	В	29	С	10/16	С	High risk of bias
Mansbach 2008	No	В	837	A	22/24	В	Low risk of bias
USA Michelson 2012	No	В	7,281	A	12/16	С	High risk of bias
USA Mintegui 2000	Yes	A	495	В	NA	NA	High risk of bias
Spain Mistry 2007	Yes	A	76	С	14/16	В	High risk of bias
USA Mistry	No	В	18	С	15/16	В	High risk of bias
2009 USA Moineau	Yes	A	108	В	NA	NA	High risk of bias
2004 Canada <i>Roback</i>	Yes	A	57	С	22/24	В	High risk of bias
1997 USA O'Loughlin	Yes	A	532	A	10/16	C	High risk of bias
2012 UK							
O'Neill 2001 USA	No	В	NS	С	6/16	С	High risk of bias
Patel 2009 USA	No	В	NA	С	21/24	В	High risk of bias
Porter 2000 USA	No	В	NA	С	10/16	С	High risk of bias
Roggen 2012 Belgium	Yes	A	1,864	A	NA	NA	High risk of bias
Roland 2011 UK	No	В	NR	NA	NA	NA	High risk of bias
Samuels-Kalow 2013 USA	Yes	A	14	С	NA	NA	High risk of bias
Sartain 2002	No	В	31	С	22/24	В	High risk of bias
UK Scarfone 1996	No	В	91	С	13/16	В	High risk of bias
USA Seow 2007	No	В	115	В	13/16	В	Low risk of bias
Taiwan Simmons 2012	Yes	A	51	С	NA	NA	High risk of bias
UK Small 2005	No	В	56	С	24/24	A	Low risk of bias
UK Yang 2012	Yes	A	9	С	20/24	С	High risk of bias
Taiwan Zimmerman 1996	Yes	A	242	В	13/16	В	Low risk of bias
USA							

* Minors: 1. clearly stated aim; 2. inclusion of consecutive patients; 3. prospective data collection; 4. endpoints appropriate to study aim; 5. unbiased assessment of study endpoint; 7. <5% lost to follow-up; 8. prospective calculation of study size; *Additional criteria in the case of comparative study*: 9. adequate control group; 10. contemporary groups; 11. baseline equivalence; 12. adequate statistical analyses

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