Supplementary Table 1. Quality assessment tool.

Variable	Description	Score
Sample size	Patients <10	0
	Patients ≥10	1
Etiology	Undefined	0
	Defined	1
Pre-operative exam	Pain or ROM undefined or missing	0
	Pain and ROM described subjectively	1
	Pain and ROM quantified	2
Radiographic criteria	Not described	0
	Described; but no pre-defined criteria used	1
	Described; pre-defined criteria used	2
Post-operative outcomes	Pain or ROM undefined or missing	0
	Pain and ROM described subjectively	1
	Pain and ROM quantified	2
Follow-up time	<1 years	0
	≥1 years	1
PROM	Not included	0
	Included	1

PROM = Patient-reported outcome measures.

Supplementary Table 2. Quality assessment scoring.

Study	Sample size	Etiology	Pre-op exam	Radiographic criteria	Follow-up	Post-op outcome	PROM	Total
Burrows, 1937 [10]	0	1	1	1	1	0	0	4
Ranawat et al., 1975 [41]	0	1	1	1	1	1	0	5
Nielsen, 1977 [38]	1	1	0	0	1	1	0	4
Vickers and Nielsen, 1992 [50]	1	1	0	1	1	1	0	5
Watson et al., 1993 [51]	1	1	0	0	1	1	0	4
Angelini et al., 1996 [4]	1	1	1	2	1	1	0	7
Murphy et al., 1996 [37]	1	1	1	2	1	1	0	7
De Billy et al., 1997 [8]	0	1	1	1	0	1	0	4
Dos Reis et al., 1998 [43]	1	1	1	1	1	1	0	6
Salon et al., 2000 [45]	0	1	1	1	1	1	0	5
Schmidt-Rohlfing et al., 2001 [46]	0	1	1	2	0	1	0	5
Ahmed Mir et al., 2003 [2]	0	1	1	1	0	1	0	4
Bruno et al., 2003 [9]	0	1	2	1	1	2	1	8

Houshian et al., 2004 [28]	0	1	2	1	1	2	0	7
Dagregorio and Saint-Cast, 2005 [14]	0	0	1	0	0	1	0	2
Aharoni et al., 2006 [1]	0	0	2	1	1	2	0	6
de Paula et al., 2006 [39]	0	0	1	1	1	1	0	4
Glard et al., 2007 [22]	0	0	2	1	1	2	0	6
Potenza et al., 2007 [40]	0	1	1	1	1	1	0	5
Laffosse et al., 2008 [31]	1	1	1	2	1	1	0	7
Kampa et al., 2010 [29]	0	1	1	2	1	1	1	7
El-Gafary and El-adly, 2013 [18]	0	0	1	1	1	1	0	4
Mallard et al., 2013 [35]	0	0	1	2	1	1	1	6
Steinman et al., 2013 [48]	1	1	1	2	1	1	1	8
Saffar and Badina, 2015 [44]	1	0	2	2	1	2	0	8