First Author	Country	Level of	Type of study	Evaluation of risk of bias													
		Evidence	JF														
				Methodological Index for Non-Randomized Studies (MINORS)													
				It.1	It.2	It. 3	It. 4	It. 5	It. 6	It.	It. 8	It. 9	It.	It.	It.	TOTAL	
										7			10	11	12		
Boileau et al.4	France		Clinical non-														
(2018)		3	controlled	2	2	2	2	0	2	2	2	2	2	2	2	22	
Hoenecke et al. ¹⁰	USA		Clinical non-														
(2010)		2	controlled	2	2	0	2	1	0	2	2	1	2	2	2	18	
Saifi et al. ¹⁹ (2017)	USA		Clinical non-														
		3	controlled	2	2	2	2	2	2	2	0	1	2	1	2	20	
Scalise et al. ²¹	USA		Clinical non-														
(2008)		2	controlled	2	2	2	2	2	2	2	2	2	2	1	2	23	
Werner et al.6	Germany		Clinical non-														
		2	controlled	2	2	2	2	2	2	2	0	2	2	2	2	22	
				Cochrane Risk of Bias Tool (for randomised studies)													
				It. 1	It. 2	It. 3	It. 4	It. 5	It. 6	It.							
										7							
Iannotti et al. ¹³	USA	1	Clinical														
(2015)			Randomised	Low	Low	Low	Low	High	High	*							

Appendix Table 2. Methodological quality of included studies, with an evaluation of bias.

The items are scored 0 (not reported), 1 (reported but inadequate) or 2 (reported and adequate). The MINOR index evaluates different domains of bias using eight (for non-controlled studies) and twelve (for controlled studies) categories, the global ideal score being 16 for non-comparative studies and 24 for controlled studies. NA = Not Applicable. Cochrane Risk of Bias assess studies using 7 domains of potential risk, rating them as either unclear, high, or low risk of bias.

*Other risk of bias: The three-dimensional imaging group and the three-dimensional intelligent reusable instrument group were compared with a non-randomized historical control group of seventeen patients who had surgical planning using only 2D CT imaging. Reference control group from 2009 with a potentially different surgical team. Prospective calculation of sample size for power was not calculated for the 2D CT group.