

Table S1. Published literature on management of pseudotumors of the hip.

Authors	Study	Nº patients	Age(mean)	Time to revision	Comorbidity	Gender	Byopsy pre	Tribology	Sympthoms	Surgery	Complications	Outcomes
Pandit et al. (2008)	Retrospective study	17	53 (35 to 73)	12	N.R	F	MoM	Pain dislocation nerve palsy	One stage	no	Sympthoms improved	
Maurer et al. (2011)	Case report	1	38	1	N.R	F	MoM	N.R	One stage (CoC)	N.R	Complete Resolution symptoms after 20 months	
Parfitt et al.(2012)	Case report	1	64	1.4	N.R	M	MoM	N.R	One stage (MoP)	N.R	Good functional	
Algarni et al.(2012)	Case report	1	54	5	N.R	F	MoM	N.R	One stage (CoC)	N.R	Complete Resolution symptoms after 6 months, no recurrence	
Memon et al.(2013)	Case report	1	54	5	N.R	F	MoM	N.R	One stage (CoC)	N.R	Good function	
Kawakita et al.(2013)	Case report	1	69	1.2	N.R	F	MoM	N.R	One stage (CoC)	N.R	Good function after 3 months	
Sulaiman et al. (2013)	Prospective study	20	61	N.R	N.R	12F 8 M	13 MoM 3 MoP	N.R	5 patients revision	no	Femoral nerve palsy slowly resolves	
Sutphen et al. (2015)	Retrospective study	70	N.R	N.R	N.R	N.R	N.R	31 Symptomatic 39 asymptomatic	N.R	N.R	N.R	
Bischop et al.	N.R	40	N.R	N.R	N.R	N.R	N.R	11 Symptomatic 29 asymptomatic	N.R	N.R	N.R	
Nawabi et al.	N.R	55	N.R	N.R	N.R	N.R	N.R	40 Symptomatic 15 asymptomatic	N.R	no	N.R	
Dong Fu et al (2015)	Case report and review	2	60 (1) 47 (2)	20 (1) 28(2)	Ankylosing spondylitis Ankylosing spondylitis	M M	MoP MoP	yes	Swelling pain Swelling pain	Emipelvic amputation One stage (THA revision)	no	
Zahi et al. (2015)	Retrospective study	8	N.R	31.9(range 18-45)	Hemophilia A(7) B(1)	M	N.R	N.R	N.R	Pseudotumor excision and fixation	3 infection	
Abdel-Hamid et al.(2015)	Case report	1	75	6	N.R	F	MoM	N.R	One stage (CoP)	N.R	Significant improvement of swelling after 9 months	
Hasegwa et al (2016)	Retrospective study	62	64	45.7 months symptomatic 49.7 months asymptomatic	N.R	49 F 13 M	MoM	16 Symptomatic (larger pseudotumor) 46 asymptomatic	N.R	N.R	N.R	
Campbell et al. (2016)	Case report	1	57	9	N.R	F	CoC	pain	One stage	no	asyntomatic	
Cottino et al. (2017)	Case report	1	72	15	N.R N.R	F	MoM	Abdominal mass, pain	Two stage	no	Pain free	
Blau et al. (2017)	Case report	1	69	7	N.R	F	CoM	Hip pain 8 elevated serum cobalt	N.R	no	No recurrence decreased level cobalt chromium	

N.R.: not reported, M:male; F:female; MoM: Metal on metal; MoP: Metal on Polyetilene; CoC: Ceramic on Ceramic; CoM: Ceramic on Metal; THA: total Hip Arthroplasty

Authors	Study	N° patients	Age(mean)	Time to revision	Comorbidity	Gender	Tribology	Biopsy pre	Sympthoms	Surgery	Complications	outcomes
Konan et al. (2017)	Compparative study, ultrasound in pseudotumor	71	56(34-38)	N.R	N.R	24 F 47 M	MoM		15 asymptomatics 8 symptomatics	8 patients revision THA symptomatic pseudotumor	N.R	N.R
Smeeches et al. (2018)	Comparison study of three grading system with MRI		N.R	N.R	N.R		MoM		54 symptomatic 52 asymptomatic	N.R	N.R	N.R
Gudda et al. (2018)	Case report	1	50	8	N.R	F	CoM		pain	One stage	no	Good result HHS pre op 58 post op 87
Persson et al. (2018)	Prospective study	13	66	6,7 (2-16)	osteoarthritis	9 F 4 M	MoP	yes	Pain swelling, mass	One stage Excision pseudotumor and revision the nodular femoral head tocerami	N.R	N.R
Caleb W. Grote et al (2018)	Case presentation and literature review	1	58	4	F	MoM	N.R		Compression external iliac vein	One stage (revision THA)	no	Complete Resolution symptoms after 4 years
Hart et al.	Case series	34	N.R	34	N.R	N.R	N.R		17Symptomatic 17 asymptomatic	N.R	N.R	N.R
Sagoo et al. (2020)	Case report	1	53	11	HIV	M	MoM		Severe Chronic abdominal pain symptomatic psoas fluid collection communicate with MoM prosthesis	One stage	No	Minimal pain
Massovaghi et al. (2021)	Case report	1	67	7	osteoarthritis	M	CoC		Aseptic loosening pain	One stage	no	HHS pre 45 post 67 Good functional
Filer et al. (2021)	Case report	1	62	14	N.R	F	MoM		Haemorrhagic pseudotumor	Revision Hip (Cer-Pol) no excision pseudotumor	no	Regression of the pseudotumor, Resolution of symptoms
Rodriguetz et al (2022)	Case report	1	71	13	N.R	M	Cer-Cer		Femoral nerve compression	One stage	no	no pain, paresthesia and neuralgia have been resolved
Huang et al. (2022)	Case report	1	73	7	N.R	F	Cer-Cer		pain	One stage	dislocation	HHS 90 asymptomatic
Present study	Retrospective study e revision of literature		21 69 (range 50-82)	9,86 (range 1-20)	DM, IPA, stroke, arthritis, obesity, dysplasia, ..	13 F, 8 M	11 MoP 7 MoM 2 CoC 1 CoP	yes	Swelling, pain	10 one stage 10 two stage 1 excision only	5 maior (2 death) 3 deep infection 3 minor	HHS pre 35 HHS post 75

N.R.: not reported; M: male; F: female; MoM: Metal on metal; MoP: Metal on Polyetilene; CoC: Ceramic on Ceramic; CoM: Ceramic on Metal; THA: total Hip Arthroplasty; HHS: Harry Hip Scores; DM: Diabetes Mellitus; IPA: Hypertension