

## Supplementary data

Table 1. Demographic, clinical, and radiographic data on the patients included in the series

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	F; 14.0	L	28 (96)	1.4	66	D	2.0	AVN	THR	7	56	38	14	7.5	13	3.8	None
2	M; 18.0	L	27 (92)	3.2	65	D	2.3	None	None	15	55	–	–	–	–	–	–
3	M; 13.3	R	26 (95)	1.9	59	D	2.3	None	None	6	52	98	25	18	25	30	Soccer, shot-put
4	M; 14.7	R	32 (97)	0.4	74	D	2.6	HO	None	4	73	90	25	16	25	24	None
5	M; 17.4	R	24 (75)	1.4	70	D	3.1	AVN	None	27	56	69	20	14	18	17	Running
6	F; 12.2	R	24 (92)	1.6	60	D	3.1	None	None	0	46	86	25	18	24	20	PE
7	F; 12.0	R	27 (97)	0.2	67	D	3.6	None	None	8	33	98	25	20	25	28	None
8	M; 13.4	L	18 (37)	0.9	61	D	3.6	None	None	15	54	100	25	20	25	30	Cycling
9	M; 15.9	L	21 (55)	0.8	75	D	4.1	None	None	19	85	100	25	20	25	30	Soccer; skiing
10	M; 15.5	L	27 (95)	0.7	90	D	4.1	None	None	6	55	96	25	18	25	29	Soccer
11	F; 11.5	L	23 (91)	0.4	53	D	4.2	AVN	THR	0	33	50	19	7.5	16	8	None
12	M; 9.6	L	19 (86)	0.4	64	D	4.5	None	None	18	33	95	25	20	25	25	Swimming
13	M; 14.6	R	19 (41)	0.6	54	D	5.0	None	None	11	42	94	25	19	25	25	Fitness
14	M; 11.7	R	25 (97)	0.8	85	D	5.3	None	None	7	47	89	25	19	25	20	Cycling; swimming
15	M; 14.6	R	21 (66)	0.6	72	D	5.3	None	None	3	37	93	24	18	24	28	Swimming; soccer; running
16	F; 11.2	L	25 (95)	0.3	69	S	3.1	None	None	40	97	100	25	20	25	30	PE
17	M; 13.6	L	23 (92)	0.6	58	S	3.9	None	None	27	74	100	25	20	25	30	PE
18	F; 13.6	L	18 (36)	1.4	65	S	4.0	None	None	33	94	88	19	17	25	28	None
19	M; 17.1	L	22 (63)	0.1	86	S	4.2	None	None	86	109	96	25	19	25	28	Running
20	F; 11.8	R	28 (97)	0.5	53	S	4.6	FAI	None	38	86	8	24	10	20	28	PE
21	M; 14.0	R	24 (91)	1.4	58	S	4.7	None	None	27	85	100	25	20	25	30	Soccer
22	M; 13.2	L	21 (78)	0.3	50	S	5.3	None	None	53	108	94	25	16	25	28	Soccer
23	M; 12.2	L	28 (98)	0.6	51	S	5.3	None	None	46	101	99	25	19	25	30	Soccer
24	F; 13.1	R	24 (91)	0.3	69	S	6.1	None	None	38	100	–	–	–	–	–	–
25	M; 12.1	L	23 (93)	0.7	59	S	6.3	None	None	39	76	90	23	15	23	30	Soccer
26	M; 13.2	L	26 (96)	0.2	59	S	6.0	CL	THR	49	80	31	12	5	11	2.5	None
27	M; 14.4	L	32 (97)	0.6	66	S	6.5	FAI	D/THR	9	89	44	15	10	14	5	None
28	M; 12.4	L	23 (92)	0.1	67	S	6.5	None	None	3	66	–	–	–	–	–	–
29	M; 14.0	R	18 (31)	0.3	61	S	2.9	FAI	Osteo-chondroplasty	42	76	81	24	14	24	20	Swimming

A. Case no.  
B. Sex and age (years)  
F – female  
M – male  
C. Side  
L – left  
R – right  
D. Body mass index (percentile)  
E. Time from initial symptoms (years)  
F. Pre-operative posterior sloping angle (°)  
G. Treatment  
D – modified Dunn procedure  
S – in situ fixation  
H. Follow-up (years)  
I. Complication  
AVN – avascular necrosis  
CL – Chondrolysis  
FAI – femoroacetabular impingement  
HO – heterotopic ossification  
J. Re-operation  
THR – total hip replacement  
K. Postoperative posterior sloping angle (°)  
L. Postoperative alpha angle (°)  
M. Nonarthritic Hip Score (total)  
N. Nonarthritic Hip Score (pain)  
O. Nonarthritic Hip Score (symptoms)  
P. Nonarthritic Hip Score (function)  
Q. Nonarthritic Hip Score (sport)  
R. Sport type  
PE – physical education.

Table 3. Estimated means and 95% confidence interval (CI) of the postoperative posterior sloping angle (PSA) and alpha angle in modified Dunn procedure (D) and in situ fixation (S). The results are presented as crude and adjusted for IPTW and follow-up duration

Postoperative radiographic parameters	D group	S group	p-value <sup>a</sup>
Crude mean (CI)			
PSA (°)	9 (1–18)	38 (30–46)	< 0.001
Alpha angle (°)	50 (42–58)	89 (81–97)	< 0.001
Adjusted mean (CI)			
PSA (°)	7 (0–16)	40 (31–49)	< 0.0001
Alpha angle (°)	47 (39–56)	92 (83–100)	< 0.0001

IPTW = inverse probability of treatment weights.  
<sup>a</sup> 2-tailed

Table 4. Estimated means and 95% confidence interval (CI) of the postoperative Nonarthritic Hip Score (NAHS) in modified Dunn procedure (D) and in situ fixation (S). The results are presented as crude and adjusted for IPTW and follow-up duration

Postoperative NAHS	D group	S group	p-value <sup>a</sup>
Crude mean (CI)			
Total	85 (74–97)	84 (71–96)	0.9
Pain	23 (21–25)	22 (20–24)	0.5
Symptoms	17 (14–19)	15 (13–18)	0.5
Function	23 (20–25)	22 (20–25)	0.7
Sport	23 (18–28)	24 (19–29)	0.7
Adjusted mean (CI)			
Total	86 (73–98)	83 (70–97)	0.8
Pain	23 (21–25)	22 (20–25)	0.5
Symptoms	17 (14–19)	15 (12–18)	0.5
Function	23 (20–25)	22 (19–24)	0.6
Sport	23 (17–28)	24 (18–30)	0.8

IPTW = inverse probability of treatment weights.  
<sup>a</sup> 2-tailed