

Supplementary data

Table 1. Patient characteristics per case

Case	Sex	Age ^a	BMI	ASA ^b	Health preop. ^c	Primary diagnosis ^d	Revision reason	Number of revisions	Bone graft ^e	Stem revision	Pelvic discontinuity	Previous implant ^f
1	F	68	33	2	3	OA	Malpositioning	2nd	No	Yes	Yes	Uncemented jumbo cup
2	F	48	29	2	3	AN	Loosening	2nd	no	No	No	APC + bone graft + cemented DMC
3	M	59	25	2	3	RA	Loosening	2nd	Yes	No	No	BIG + mesh + CC
4	F	71	24	3	3	RA	Loosening	2nd	Yes	No	No	BIG + mesh + CC
5	F	60	25	1	2	OA	Loosening	2nd	No	No	No	BIG + mesh + CC
6	F	65	33	2	3	OA	Loosening	3rd	No	No	No	BIG + mesh + APC + cemented DMC
7	F	63	24	1	3	OA	Loosening	3rd	Yes	No	No	BIG + mesh + CC
8	F	50	24	1	2	CHD	Loosening	2nd	No	No	No	APC + CC
9	F	73	22	2	3	OA	Loosening	3rd	Yes	No	No	BIG + mesh + CC
10	F	60	33	2	-	CHD	Loosening	5th	Yes	No	Yes	BIG + medial/rim mesh + plate + CC
11	F	51	25	2	3	CHD	Loosening	2nd	No	No	No	CC
12	M	76	29	2	1	OA	Loosening	3rd	Yes ^e	No	No	BIG + CC
13	F	66	30	3	3	OA	Malpositioning	2nd	No	No	Yes	BIG + mesh + CC + PCP
14	F	64	28	2	2	CHD	Loosening	1st	Yes	No	No	Cemented cup
15	F	69	27	1	2	OA	Loosening	1st	No	No	No	Müller reinforcement ring + CC
16	F	76	32	2	1	OA	Loosening	2nd	No	No	Yes	BIG + CC
17	M	68	30	1	1	PT OA	Loosening	9th	Yes	No	No	Cement spacer on a Zimmer femoral stem/ later Girdlestone
18	M	74	20	2	-	OA	Loosening	4th	No	No	Yes	BIG + mesh + CC/ later only femur component
19	M	59	26	2	3	OA	Loosening	4th	Yes	No	No	TM augment + BIG + APC + CC
20	F	71	44	3	3	OA	Loosening	3rd	Yes	No	No	BIG + Ganz reinforcement ring + CC
21	F	82	28	3	2	OA	Instability	5th	Yes	No	No	APC (Burch Schneider) + structural allograft + CC
22	F	71	28	1	2	RA	Malpositioning	3rd	Yes	No	No	BIG + mesh + CC
23	F	89	24	1	1	OA	Loosening	3rd	No	No	Yes	APC + CC
24	F	67	27	2	-	OA	Infection	9th	No	Yes	No	Oblong cup/ later Girdlestone
25	M	61	26	2	1	OA	Malpositioning	2nd	No	Yes	No	BIG + mesh + TM augment + CC
26	M	70	28	2	3	RA	Loosening	3rd	Yes	No	No	BIG + mesh + CC
27	F	81	38	2	1	OA	Loosening	1st	No	Yes	Yes	Uncemented cup
28	F	59	30	1	2	OA	Loosening	3rd	No	No	Yes	Mesh + BIG + CC
29 ^g	F	56	28	2	3	SED	Wear/osteolysis	1st	Yes	Yes	No	Uncemented cup
30	F	62	34	2	1	PT OA	Loosening	3rd	Yes ^e	Yes	No	Mesh-Ganz reinforcement ring + BIG + CC
31	F	82	23	2	2	OA	Loosening	2nd	Yes ^e	No	Yes	CC
32	F	77	30	2	2	CHD	Wear/osteolysis	3rd	Yes ^e	Yes	No	Uncemented Spotorno expansion cup/ later Girdlestone
33	F	48	24	3	2	SD	Loosening	2nd	Yes	No	No	BIG + mesh + CC + PCP
34	F	41	29	2	2	RA	Loosening	3rd	Yes	No	No	CC
35	F	54	19	1	3	CHD	Loosening	3rd	Yes	No	No	Uncemented cup
36	F	77	24	3	3	RA	Loosening	1st	Yes ^e	Yes	Yes	CC
37	F	77	27	2	-	OA	Loosening	3rd	Yes ^e	No	Yes	BIG + mesh + APC + CC
38	F	74	24	2	3	OA	Loosening	3rd	Yes ^e	No	Yes	BIG + mesh + CC + PCP
39	F	65	22	2	-	CHD	Loosening	4th	Yes ^e	No	No	BIG + mesh + CC + PCP
40	M	44	25	1	1	OA	Loosening	2nd	Yes ^e	No	No	BIG + mesh + CC
41	F	79	25	2	2	OA	Loosening	2nd	Yes ^e	No	Yes	APC + CC
42	F	46	26	2	3	CHD	Loosening	1st	No	No	No	CC
43	F	75	26	2	1	RA	Loosening	1st	Yes	Yes	No	CC
44	F	83	26	2	2	OA	Loosening	1st	Yes	Yes	No	CC
45	F	76	32	2	3	OA	Loosening	2nd	Yes ^e	No	No	Uncemented cup
46 ^g	F	57	32	3	3	SED	Wear/osteolysis	1st	Yes	No	No	CC
47	F	59	25	1	2	CHD	Loosening	1st	Yes	No	No	Uncemented cup
48	F	63	28	3	3	RA	Loosening	5th	Yes ^e	No	Yes	BIG + mesh + CC + PCP
49	F	68	24	3	3	AVN	Loosening	1st	No	No	No	BIG + mesh + CC
50	F	79	25	2	-	OA	Loosening	2nd	No	No	Yes	BIG + uncemented cup

^a Age at the time of the operation.^b American Society of Anaesthesiologists classification.^c Health preoperatively: 1, unilateral hip problem; 2, bilateral hip problems; 3, other health issues besides hip problems.^d AVN, avascular necrosis; CHD, congenital hip dysplasia; OA, osteoarthritis; PT OA, post-traumatic OA; RA, rheumatoid arthritis; SED, spondyloepiphyseal dysplasia^e Bone grafted with chips, all grafted with allograft^f APC, anti-protrusion cage; BIG, bone impaction grafting, CC, cemented cup; DMC, dual mobility cup; PCP, posterior column plate; TM, trabecular metal.^g Case 29 (right hip) and case 46 (left hip) are the same patient.