

TABLE E-1: Preoperative, postoperative and actual radiographic measurements. The measurements were graded according to the age-adjusted classification system of the German Association of Orthopaedic and Trauma Surgery¹⁴

	Grade	Percentage preoperatively G1 (n=73)/G2 (n=66)/G3 (n=7)	Percentage postoperatively G1 (n=73)/G2 (n=66)/G3 (n=7)	Percentage actual G4 (n=63)
CCD-angle	1	31/34/0	38/38/43	29
	2	22/20/43	22/21/29	25
	3	18/18/14	19/20/14	35
	4	29/28/43	21/21/14	11
acetabular index	1	7/8/0	63/64/57	76
	2	14/15/0	25/23/43	11
	3	36/35/43	8/9/0	3
	4	43/42/57	4/4/0	10
acetabular angle	1	31/32/14	95/94/100	72
	2	29/28/43	3/3/0	14
	3	35/26/14	1/2/0	3
	4	15/14/29	1/1/0	11
ACM-angle	1	1/2/0	4/5/0	65
	2	11/12/0	19/21/0	21
	3	32/34/14	33/35/14	8
	4	56/52/86	44/39/86	6
CE angle	1	4/5/0	70/73/43	65
	2	14/14/14	8/9/0	24
	3	50/55/0	11/11/14	6
	4	32/26/86	11/7/43	5
SHF	1	3/3/0	29/32/0	65
	2	7/8/0	23/23/29	10
	3	36/40/0	33/35/14	17
	4	54/49/100	15/10/57	8

G1: group 1 (all hips); G2: group 2 (all non-revised hips); G3: group 3 (the 7 revised hips);
 G4: group 4 (the 66 non-revised hips minus the 3 hips without actual follow-up radiograph); SHF: summarized hip factor^{20,21}

TABLE E-II Long-term results after Salters IO

Author(s)	Year	No. of hips	Remarks 1	Remarks 2	Age at operation (Years)	Follow-up (Years)	Radiographic results Severin	AVN	Improvement of acetabular index
Salter and Dubos	1974	110	primary operation group	combined open reduction and SIO	1.5-4	5.5 (1.5-11)	93.6% excellent or good	5.7%	
		30			4-10		56.7% excellent or good		
		16			1.5-4		100% excellent or good	0%	
		12			4-10		91.6% excellent or good		
		157	secondary operation group (after failure of previous treatment)	?	61.1% excellent or good		30% AVN due to pretreatment and 6.4% cartilage necrosis, 7.7% following SIO (all after combined open red. and SIO)		
Mäder et al.	1979	20		only good results		10-16	100% good	preexistent in 20% another 5% following SIO	12°
Gallien et al.	1984	40	all cases		1.9 (1.1-9)	7.3 (0.5-18)		5% due to SIO	
		(18)	“failed cases”				44% excellent or good	42% due to pretreatment	
		(22)	“properly performed SIOs”				68.1% excellent or good		
Moulin and Morscher	1988	9			4.2 (2-7.3)	24	78% excellent or good	11%	12°
Waters et al.	1988	29	hips with preoperative AVN excluded		2.5 (1.5-5.4)	9.3 (3-14)	97% excellent or good but 3 (10%) reoperations	3.7%	17°
Dutoit and Messikomer	1990	16	reoperations - 3; coxa magna - 4; clinical result: excellent and good - 7; mediocre - 5; poor - 4	combined open reduction and SIO in 75%	3.1 (1.1-5.7)	15.7 (10-24)	63% excellent or good	6%	
Windhager et al.	1990	63	clinically excellent: 81%, 6 true revisions: re-SIO - 1, Pemberton - 2, Chiari - 3	reduction and IO combined - 1, preoperative open reduction - 13 SIO and ITO combined - 21	4.1 (1.5-18)	11.6	SHF grade 3 and 4 in 29%	?	8°
Blamoutier and Carlioz	1990	43		9% complications (infection, dislocation)	3.8 (1.5-10)	11.3(10-13)	91% excellent or good	0%	
Gulman et al.	1994	52	clinically excellent and good: 79%		1.5-8	13 (8-25)	71% excellent or good	63.3%	
Mellerowicz et al.	1998	52			2.8	9.5	84% excellent or good		
Böhm and Brzuske	2002	73			4.1 (1.3-8.8)	31 (26-35)	80% excellent or good	60.3%	12°
								preoperatively type 1-4: 52.8% preoperatively type 2-4: 30.5% 6 months postoperatively type 1-4: 60.3% 6 months postoperatively type 2-4: 27.4%	