

Table E-I Preoperative Patient Characteristics

	CEMENTED (124)	CEMENTLESS (126)
Mean Age (yrs)	64 ± 8	64 ± 7
% female	48	46
% operated by RB	48	49
HARRIS	44 ± 11	43 ± 10
D'AUBIGNE	9.9 ± 1.9	10.0 ± 1.8
WOMAC		
- pain	5.3 ± 1.7	5.2 ± 1.9
- stiffness	6.0 ± 2.2	6.1 ± 2.0
- physical fitness	6.0 ± 1.6	6.1 ± 1.7
MACTAR	7.9 ± 1.4	7.8 ± 1.4
SIP		
- sleep and rest	38.0 ± 26.5	36.1 ± 24.6
- emotional behavior	26.3 ± 18.9	25.3 ± 20.5
- body care and movement	25.7 ± 10.7	23.5 ± 10.9
- home management	26.2 ± 19.1	24.8 ± 15.0
- mobility	10.0 ± 12.2	8.0 ± 10.0
- social interaction	16.0 ± 14.2	14.6 ± 10.6
- ambulation	37.0 ± 10.8	36.0 ± 9.5
- recreation and pastimes	44.8 ± 19.7	42.8 ± 20.4
- work	21.8 ± 30.0	20.2 ± 28.6
- global physical score	25.2 ± 9.0	23.3 ± 8.8
TIME TRADE-OFF		
- Scenario 1 (severe)	0.18 ± 0.25	0.17 ± 0.25
- Scenario 2 (moderate)	0.34 ± 0.31	0.40 ± 0.32
- Scenario 3 (mild)	0.64 ± 0.29	0.67 ± 0.30
- Patient's score	0.28 ± 0.30	0.30 ± 0.29
SIX-MINUTE WALK TEST (m)*	227 ± 90	229 ± 91

*mean ± SD

TABLE E-2 HEALTH-RELATED QUALITY OF LIFE – CHANGE FROM BASELINE*

		3 MONTHS (n=225)	6 MONTHS (n=219)	1 YEAR (n=209)	3 YEARS (n=189)	5 YEARS (n=187)	7 YEARS (n=129)
HARRIS:	C	41 (12)	47 (12)	52 (10)	50 (14)	47 (14)	44 (15)
	CL	41 (11)	50 (13)	53 (11)	52 (11)	48 (13)	46 (14)
d'AUBIGNE:	C	5.8 (1.9)	6.7 (2.1)	7.5 (1.8)	7.1 (2.2)	6.5 (2.3)	6.1 (2.6)
	CL	5.6 (2.2)	7.0 (2.2)	7.4 (2.1)	6.9 (2.1)	6.6 (2.4)	6.5 (2.8)
WOMAC:							
Pain	C	-4.2 (1.9)	-4.4 (2.0)	-4.6 (1.9)	-4.2 (2.0)	-4.1 (2.1)	-4.4 (2.0)
	CL	-4.3 (2.0)	-4.3 (2.1)	-4.3 (2.2)	-4.1 (2.0)	-3.9 (2.2)	-3.6 (2.2)
Stiffness	C	-3.7 (2.3)	-4.4 (2.4)	-4.8 (2.3)	-4.5 (2.8)	-4.1 (3.3)	-4.0 (3.1)
	CL	-4.3 (1.9)	-4.5 (2.3)	-4.9 (2.4)	-4.9 (2.5)	-4.2 (2.6)	-4.3 (3.1)
Physical Ftn.	C	-4.2 (1.9)	-4.8 (1.8)	-5.2 (1.9)	-4.9 (1.9)	-4.7 (2.2)	-4.7 (2.4)
	CL	-4.3 (1.8)	-4.9 (2.0)	-5.1 (2.0)	-4.9 (2.2)	-4.6 (2.1)	-4.3 (2.4)
MACTAR:	C	-5.3 (2.5)	-6.6 (1.9)	-7.0 (1.8)	-6.6 (2.3)	-6.0 (2.8)	-6.2 (2.8)
	CL	-5.2 (2.2)	-6.4 (2.1)	-6.9 (2.0)	-6.4 (2.3)	-6.2 (2.4)	-6.0 (2.6)
SIP:							
SR	C	-29 (27)	-35 (27)	-36 (28)	-29 (27)	-28 (26)	-28 (23)
	CL	-30 (27)	-30 (26)	-31 (27)	-27 (26)	-27 (28)	-28 (22)
EB	C	-21 (19)	-22 (18)	-23 (18)	-20 (16)	-18 (17)	-20 (17)
	CL	-22 (21)	-21 (22)	-21 (21)	-20 (20)	-18 (18)	-19 (18)
BCM	C	-17 (12)	-20 (11)	-22 (11)	-19 (12)	-18 (12)	-18 (12)
	CL	-16 (13)	-19 (12)	-19 (13)	-18 (13)	-18 (12)	-17 (12)
HM	C	-12 (20)	-21 (18)	-22 (18)	-19 (20)	-18 (18)	-20 (20)
	CL	-12 (19)	-19 (19)	-20 (16)	-20 (16)	-15 (17)	-17 (17)
M	C	-8 (12)	-9 (13)	-10 (13)	-8 (13)	-5 (14)	-8 (12)
	CL	-6 (13)	-7 (11)	-7 (10)	-6 (11)	-5 (9)	-5 (9)
SI	C	-13 (14)	-15 (15)	-15 (14)	-14 (16)	-11 (15)	-14 (15)
	CL	-12 (11)	-13 (11)	-13 (11)	-12 (11)	-12 (11)	-13 (10)
A	C	-17 (17)	-26 (15)	-29 (15)	-27 (16)	-26 (18)	-24 (20)
	CL	-15 (16)	-28 (14)	-30 (13)	-27 (13)	-25 (13)	-27 (14)
RP	C	-29 (24)	-36 (24)	-39 (22)	-36 (24)	-32 (28)	-38 (25)
	CL	-27 (22)	-36 (22)	-37 (23)	-34 (25)	-35 (22)	-39 (24)
W	C	-4 (24)	-9 (24)	-9 (23)	-16 (27)	-16 (29)	-14 (28)
	CL	0 (21)	-6 (22)	-10 (23)	-14 (24)	-18 (28)	-21 (28)
Global Physical	C	-15 (11)	-19 (9)	-21 (10)	-19 (11)	-17 (12)	-18 (12)
	CL	-14 (12)	-18 (10)	-19 (11)	-18 (10)	-17 (10)	-17 (9)

(continued)

TABLE E-2 (continued)							
		3 MONTHS	6 MONTHS	1 YEAR	3 YEARS	5 YEARS	7 YEARS
TIME TRADE-OFF:							
Scenario 1	C	0.00 (.17)	0.00 (.16)	0.00 (.20)	-0.03 (.31)	0.04 (.35)	0.15 (.36)
	CL	-0.02 (.17)	0.00 (.19)	0.04 (.19)	-0.01 (.31)	0.05 (.32)	0.04 (.26)
Scenario 2	C	0.08 (.23)	0.11 (.26)	0.11 (.26)	0.01 (.36)	0.04 (.39)	0.11 (.37)
	CL	0.02 (.18)	0.04 (.19)	0.12 (.23)	-0.04 (.33)	0.03 (.35)	-0.01 (.37)
Scenario 3	C	0.08 (.23)	0.11 (.26)	0.10 (.28)	0.05 (.38)	0.00 (.38)	-0.04 (.37)
	CL	0.08 (.24)	0.08 (.26)	0.13 (.27)	0.01 (.36)	-0.01 (.33)	-0.02 (.39)
Patient's Score	C	0.51 (.34)	0.52 (.33)	0.57 (.33)	0.45 (.34)	0.41 (.40)	0.39 (.37)
	CL	0.52 (.31)	0.51 (.33)	0.55 (.34)	0.41 (.35)	0.38 (.38)	0.41 (.39)
SIX-MINUTE WALK							
	C	101 (81)	133 (82)	157 (102)	157 (95)	156 (114)	153 (111)
	CL	88 (69)	137 (82)	155 (86)	144 (94)	151 (99)	169 (99)

*The values are given as the mean change scores, with the standard deviation in parentheses. **C**: cemented arthroplasty; **CL**: cementless arthroplasty; **SR**: sleep and rest; **EB**: emotional behavior; **BCM**: body care and movement; **HM**: home management; **M**: mobility; **SI**: social interaction; **A**: ambulation; **RP**: recreation and pastimes; **W**: work.