

Table E-1A Demographic Data on Autologous Chondrocyte Implantation (ACI) Group

No.	Age at ACI (years)	Sex	Height (cm)	Weight (kg)	Loca- tion of lesion*	Size of lesion (cm²)	Tegner					Lysholm					Meyers				
							preop.	3	6	12	24	preop.	3	6	12	24	preop.	3	6	12	24
								months	months	months	months		months	months	months	months		months	months	months	months
1	28	f	185	65	3	5.00	2	2	3	5	5	30	36	53	58	65	12	13	14	14	15
2	41	m	182		1,5	5.60	0	1	2	3	2	14	15	28	46	37	10	10	11	12	10
3	31	m	180	80	5	3.30	3	2	4	7	9	36	41	65	65	69	11	13	16	17	18
4	18	m	186	90	5	4.40	3	3	4	6	7	41	42	65	65	69	12	11	16	17	18
5	42	m	184	86	2	3.84	2	2	4	5	6	24	34	53	70	70	8	10	13	15	17
6	38	f	172	64	3	3.50	1	1	2	3	4	27	27	32	50	63	8	6	10	11	15
7	31	f	168	64	3	3.36	1	1	2	3	4	29	27	50	50	69	6	8	12	15	16
8	28	f	164	67	2	3.96	1	1	2	4	5	22	27	39	61	68	5	7	9	13	17
9	29	f	172	76	2	3.84	1	1	3	4	5	17	31	50	65	71	9	10	13	16	17
10	35	f	168	72	3	3.24	1	2	3	3	4	22	27	51	61	68	6	8	12	15	18
11	39	f	168	64	2	3.78	2	2	3	4	6	27	29	48	67	69	8	10	13	16	17
12	35	m	185	82	2	4.20	1	1	2	2	3	24	29	39	50	59	6	7	9	13	16
13	21	m	183	72	3	3.36	2	2	2	4	6	18	25	28	46	74	1	1	3	5	6
14	27	m	182	84	3	4.20	1	1	4	5	5	22	20	43	53	72	5	9	13	14	17
15	36	f	168	54	2	3.60	2	2	4	5	6	27	27	51	67	74	7	6	13	15	17
16	31	f	163	52	3	3.50	2	2	3	4	5	25	25	37	53	63	6	7	14	15	17
17	27	f	162	55	3	3.52	1	1	3	4	5	20	22	46	55	70	5	6	9	15	17
18	22	m	186	84	2	4.20	2	1	3	4	5	24	19	43	53	75	5	12	14	15	16
19	38	f	170	71	2	3.64	2	2	3	5	5	20	23	46	55	60	6	8	13	14	17
20	31	f	168	58	2	3.20	2	1	3	5	5	29	25	48	60	70	8	8	14	16	17
Average:	31		175	71		3.86	1.60	1.55	2.95	4.25	5.10	24.90	27.55	45.75	57.50	66.75	7.20	8.50	12.05	14.15	15.90

*See Figure E-1

Table E-1B Demographic Data on Osteochondral Cylinder Transplantation (OCT) Group

No.	Age at OCT (years)	Sex	Height (cm)	Weight (kg)	Loca- tion of lesion*	No. of Cylinders	Size of lesion (cm²)	Tegner					Lysholm					Meyers				
								preop.	3 months	6 months	12 months	24 months	preop.	3 months	6 months	12 months	24 months	preop.	3 months	6 months	12 months	24 months
1	42	f	165	65	2	2	3.22	1	1	3	4	5	29	34	51	63	69	5	6	12	16	16
2	40	m	183	78	3	2	3.52	2	2	3	5	5	25	35	53	70	71	9	8	13	15	17
3	40	f	168	54	2	3	3.92	1	1	3	3	4	25	27	45	53	69	7	8	13	13	17
4	44	m	192	94	2	1	3.36	2	2	4	6	6	32	36	53	74	79	10	9	15	17	18
5	30	m	187	88	2	2	3.74	2	2	4	5	5	31	22	57	74	79	9	9	14	16	18
6	37	m	185	81	5	1	3.36	1	2	4	5	5	27	29	65	66	71	7	9	14	17	17
7	36	m	181	86	2	1	3.25	2	1	3	5	5	27	27	53	69	74	7	7	13	16	17
8	21	m	179	86	5	2	3.36	2	1	3	6	6	32	25	53	75	75	8	7	14	17	17
9	40	m	182	86	2	2	3.36	1	1	3	3	3	29	20	45	61	61	6	7	13	14	14
10	40	f	164	68	3	2	3.60	1	1	2	3	3	22	22	38	56	60	5	5	9	14	14
11	34	f	172	76	5	2	3.78	1	1	4	6	6	32	28	55	70	70	7	7	14	16	16
12	39	m	184	92	5	2	3.84	1	1	3	4	4	20	20	48	69	69	7	5	12	14	16
13	26	m	191	96	2	2	4.16	2	2	4	5	6	29	27	60	75	80	8	6	14	17	18
14	25	f	180	58	2	2	3.57	2	2	5	6	6	29	30	59	75	75	9	8	15	17	17
15	43	m	175	78	2	1	3.52	2	2	4	6	6	29	36	53	69	74	8	9	16	16	17
16	39	m	183	84	2	2	4.05	1	1	3	5	5	29	27	53	65	70	8	11	15	16	16
17	33	m	182	85	3	2	3.52	2	2	5	6	6	34	29	64	80	80	9	9	15	18	18
18	38	m	179	81	2	2	4.25	2	2	4	5	5	29	27	53	53	75	10	10	14	17	17
19	27	m	186	82	2	1	3.78	2	2	4	6	7	32	38	59	74	79	9	11	15	16	18
20	34	m	190	85	2	2	3.50	2	2	3	6	6	27	20	52	74	74	9	6	15	16	17
Average:	35		180	80			3.63	1.60	1.55	3.55	5.00	5.20	28.45	27.95	53.45	68.25	72.70	7.85	7.85	13.75	15.90	16.75

*See Figure E-1

Table E-2A ACI Group

No.	Previous surgical treatment	Biopsy	Complications	Subsequent surgical procedure
1	2 arthroscopies, incomplete resection of medial meniscus, extraction of osteochondral loose bodies	none	none	none
2	1 arthroscopy, abrasion	2 biopsies 12/24 months post ACI	occasional locking of the joint, adhesions, arthroscopy 12 months post ACI	arthroscopy 24 months post ACI due to knee pain
3	none	2 biopsies 2/12 months post ACI	ACL partial rupture, arthroscopy 2 months post ACI	arthroscopy 12 months post ACI due to ACL rupture
4	none	none	none	none
5	none	1 biopsy 24 months post ACI	none	arthroscopy 24 months post ACI in case of meniscopathy
6	1 arthroscopy, abrasion	none	extension deficit	arthroscopy and release of adhesions 2 months post ACI
7	1 arthroscopy, spongiolization of the defect	none	swelling of the knee joint	none
8	none	none	flexion deficit	none
9	none	none	none	none
10	1 arthroscopy, abrasion	none	passing irritation infrapatellar branch of the saphenous nerve	none
11	none	1 biopsy 22 months post ACI	concretion of the knee capsule	arthroscopy 22 months post ACI due to adhesions
12	1 arthroscopy	1 biopsy 19 months post ACI	functional malalignment (valgus deviation) within 18 months post ACI	arthroscopy 19 months post ACI due to valgus deviation
13	none	none	lateralization of the patella	lateral release 5 months post ACI
14	1 arthroscopy, abrasion, partial synovectomy	none	none	none
15	none	none	none	none
16	1 arthroscopy, abrasion	none	passing irritation infrapatellar branch of the saphenous nerve	none
17	none	none	none	none
18	none	none	recurrent knee joint effusion within 6 months post ACI	none
19	1 arthroscopy, abrasion, incomplete resection of the medial meniscus in 1990	none	none	none
20	none	1 biopsy 23 months post ACI	recurrent knee joint effusion, extension deficit	arthroscopy 23 months post ACI due to pain and joint effusion

Table E-2B OCT Group

No.	Previous surgical treatment	Biopsy	Complications	Subsequent surgical procedure
1	none	1 biopsy 3 months post OCT	extension deficit	arthroscopy 3 months post OCT due to limited flexion
2	1 arthroscopy, drilling (Pridie) of the defect	none	postoperative hemarthrosis	arthroscopy 5 days post OCT
3	1 arthroscopy, abrasion	none	flexion deficit	none
4	none	none	none	none
5	none	none	hemarthrosis 4 days post OCT	arthroscopy 4 days post OCT, drainage (bleeding from donor site defect)
6	none	none	none	none
7	none	none	none	none
8	1 arthroscopy, removal of osteochondral loose body + drilling	1 biopsy 21 months post OCT	none	arthroscopy due to new cartilage lesion after knee distortion, spongification
9	none	none	multiple joint effusions for 8 weeks, flexion deficit	joint effusions 7 weeks post OCT
10	none	none	superficial wound infection, flexion deficit	none
11	1 arthroscopy	none	passing irritation sensitive branch of the peroneal nerve	none
12	none	1 biopsy 22 months post OCT	occasional locking of the joint during flexion, adhesions in the medial recessus	arthroscopy, release of adhesions 22 months post OCT
13	1 arthroscopy, removal of osteochondral loose body, partial resection of the medial meniscus	1 biopsy 3 months post OCT	occasional blockade of the knee joint	arthroscopy, partial resection of the medial meniscus 3 months post OCT
14	none	none	none	none
15	2 arthroscopies, abrasion, removal of a flake, medialization of the patella	1 biopsy 3 months post OCT	none	arthroscopy 3 months post OCT due to screw revision, spongification
16	none	none	none	none
17	none	none	passing irritation infrapatellar branch of the saphenous nerve	none
18	none	none	none	none
19	none	none	flexion deficit	none
20	1 arthroscopy and partial medial partial meniscectomy	none	flexion deficit, adhesions in the cranial recessus	arthroscopic release of adhesions 3 months post OCT

Location of lesion

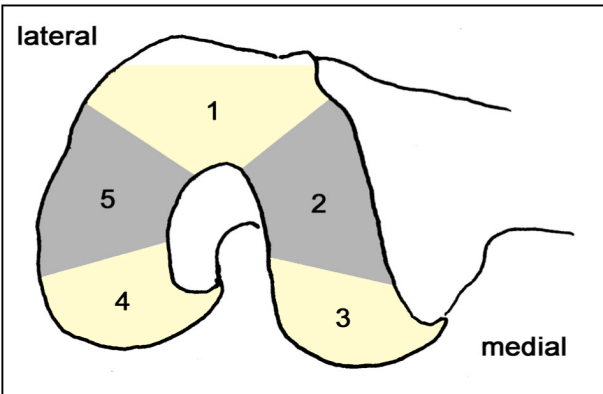


Figure E1.

Scheme for the localization of the site of the lesions and donor sites.