

Table E-1. Summary of Results													
Patient	Nerve Involved	Age	Gender	Diagnosis	Approach	Etiology	Days to Dx	Time to Reoperation	Reoperation	Time to Maximal Improvement	F/U (months)	Type of Injury	Nerve Function at Last F/U
1	Femoral	44	Female	Developmental Dysplasia	Transtroch	Unknown	5		None	5 months	14 (Lost)	Incomplete	Partial Recovery
2	Femoral	51	Male	Developmental Dysplasia	Transtroch	Lengthening	74		None	5 years	246	Complete	Complete Recovery
3	Femoral	58	Female	Developmental Dysplasia	Transtroch	Laceration	1	48 days	Neurolysis of Femoral Nerve	5 days	228	Complete	Partial Recovery
4	Peroneal	22	Female	Posttraumatic	Transtroch	Unknown	1		None	4 years	44	Complete	Complete Recovery
5	Peroneal	23	Female	Developmental Dysplasia	Posterior	Lengthening	1		None	6 months	65	Complete	Complete Recovery
6	Peroneal	25	Female	Developmental Dysplasia	Transtroch	Unknown	4		None	2 months	27	Complete	Partial Recovery
7	Peroneal	28	Male	Developmental Dysplasia	Posterior	Lengthening	1		None	1.5 years	62	Complete	Complete Recovery
8	Peroneal	31	Male	Developmental Dysplasia	Anterior	Lengthening	1		None	1 year	32	Incomplete	Complete Recovery
9	Peroneal	37	Female	Osteoarthritis	Anterior	Lengthening	1	< 24 hours	Shortening of Modular Head	4 months	26	Complete	Partial Recovery
10	Peroneal	41	Female	Osteoarthritis	Anterior	Unknown	1		None	1 year	32	Complete	Partial Recovery
11	Peroneal	46	Female	Osteoarthritis	Anterior	Compressive Dressing	1		None	3 months	31	Incomplete	Complete Recovery
12	Peroneal	49	Female	Rheumatoid Arthritis	Posterior	Hematoma	1		None	16 days	36	Complete	Complete Recovery
13	Peroneal	53	Male	Developmental Dysplasia	Anterior	Traction	1		None	2 years	44	Incomplete	None

14	Peroneal	54	Female	Osteoarthritis	Posterior	Unknown	2	2 days	None	2.5 years	30	Complete	Partial Recovery
15	Peroneal	55	Male	Osteoarthritis	Posterior	Unknown	1		Exploration	9.6 years	120	Incomplete	None
16	Peroneal	55	Male	Osteoarthritis	Posterior	Unknown	1	1 day	None	1.5 years	144	Incomplete	Complete Recovery
17	Peroneal	57	Female	Other	Transtroch	Hematoma	1		Evacuation of Hematoma	3.7 years	43	Incomplete	Complete Recovery
18	Peroneal	59	Male	Osteonecrosis	Anterior	Unknown	2		None	4 years	37	Incomplete	None
19	Peroneal	60	Female	Developmental Dysplasia	Transtroch	Traction	4		None	3 years	37	Complete	Partial Recovery
20	Peroneal	63	Female	Osteoarthritis	Anterior	Unknown	2	18 days	None	1 year	242	Incomplete	Complete Recovery
21	Peroneal	66	Male	Osteoarthritis	Posterior	Traction	5		None	5 years	65	Incomplete	None
22	Peroneal	67	Male	Osteoarthritis	Posterior	Traction	1		None	4 days	2	Complete	Complete Recovery
23	Peroneal	67	Female	Osteoarthritis	Anterior	Traction	1		None	3 months	60	Complete	Partial Recovery
24	Peroneal	68	Female	Posttraumatic	Transtroch	Hematoma	8		Evacuation of Hematoma	1 year	64	Incomplete	Partial Recovery
25	Peroneal	70	Female	Osteoarthritis	Posterior	Unknown	1	Unknown(patient sedated immed. postop.)	None	2.25 years	27	Incomplete	Partial Recovery
26	Peroneal	71	Male	SCFE	Anterior	Lengthening	94		None	1 year	246	Incomplete	Complete Recovery
27	Peroneal	73	Female	Rheumatoid Arthritis	Anterior	Unknown	1		None	6 months	41	Complete	None
28	Peroneal	73	Male	Osteoarthritis	Anterior	Unknown	10		None	1 year	71	Complete	Complete Recovery
29	Peroneal	74	Female	Osteoarthritis	Posterior	Retractor	1		None	5 months	60	Complete	None
30	Peroneal	75	Male	Osteoarthritis	Anterior	Unknown(patient sedated immed. postop.)	1		None	2 months	27	Incomplete	None

Table 1: Demographic and Clinical Data of Patients with Sciatic Nerve Injury												
Case No.	Location	Age	Sex	Primary Diagnosis	Injury Site	Initial Treatment	Time to Surgery (days)	Time to Discharge (days)	Postoperative Management	Time to Follow-up (months)	Follow-up Count	Outcome
31	Peroneal	76	Male	Osteoarthritis	Anterior	Lengthening	8		None	6.5 years	132	Incomplete Complete Recovery
32	Peroneal	80	Male	Posttraumatic	Anterior	Hematoma	12		None	5 months	19 (death)	Complete None
33	Peroneal	83	Female	Osteoarthritis	Anterior	Traction	1		None	4 months	24	Complete Partial Recovery
34	Sciatic	20	Male	Hemophilic Arthropathy	Posterior	Unknown	1		None	28 months	28	Complete None
35	Sciatic	22	Male	Postinfectious Arthritis	Posterior	Unknown	1		None	5 months	29	Complete None
36	Sciatic	42	Female	Posttraumatic	Anterior	Laceration	1		None	3 months	229	Incomplete None
37	Sciatic	48	Male	Posttraumatic	Posterior	Unknown	10		None	7 years	156	Incomplete None
38	Sciatic	50	Male	Osteonecrosis	Posterior	Unknown (patient sedated immed. postop.)	5		None	1.5 years	60	Incomplete None
39	Sciatic	53	Female	Osteoarthritis	Posterior	Hematoma	10	10 days	Evacuation of Hematoma	19 days	204	Complete Complete Recovery
40	Sciatic	54	Female	Rheumatoid Arthritis	Transtroch	Hematoma	9		None	5 years	108	Complete Complete Recovery
41	Sciatic	56	Female	Osteoarthritis	Anterior	Lengthening	1		None	3.5 years	97	Complete Partial Recovery
42	Sciatic	74	Female	Osteoarthritis	Anterior	Unknown	48		None	6 months	14	Complete Complete Recovery
43	Sciatic	74	Female	Osteoarthritis	Anterior	Unknown	1		None	5 months (death)	5 (death)	Complete None
44	Sciatic	75	Female	Rheumatoid Arthritis	Anterior	Hematoma	16		None	1.25 years	132	Complete None
45	Sciatic	77	Female	Osteoarthritis	Anterior	Unknown	2		None	2 years	64	Complete Partial Recovery
46	Sciatic	78	Female	Osteonecrosis	Posterior	Unknown	1	12 days	Neurolysis of Sciatic Nerve	16 days	30	Complete Partial Recovery
47	Sciatic	89	Female	Osteoarthritis	Anterior	Hematoma	2		None	5 months (death)	5 (death)	Complete None

Table E-2			
Leg lengthening in patients with motor nerve palsy and in matched controls without nerve injury			
Patients		Matched Controls	
No.	Leg lengthened (mm)	No.	Leg Lengthened (mm)
1	8	1	7
2	13	2	10
3	-1	3	8
4	10	4	11
5	13	5	3
6	0	6	8
7	25	7	10
8	11	8	18
9	19	9	23
10	10	10	4
11	11	11	25
12	15	12	2.2
13	20	13	8
14	*	14	*
15	28	15	0
16	14	16	-2
17	24	17	9
18	30	18	14
19	13	19	8
20	29	20	37
21	44	21	20
22	16	22	17
23	*	23	*
24	*	24	*
25	8	25	19
26	22	26	10
27	26	27	19
28	3	28	10
29	*	29	*
30	22	30	14
31	20	31	17
32	19	32	10
33	9	33	10
34	18	34	14
35	15	35	-2
36	28	36	20
37	24	37	15
38	24	38	16
39	21	39	9
40	8	40	9
41	13	41	3
42	4	42	-1
43	4	43	17
44	30	44	23
45	33	45	0
46	21	46	4
47	22	47	6
Avg	17.3		11

* patient with inadequate preoperative or postoperative radiographs

Table E-3 Conditional logistic regression analysis

Risk Factor	Odds Ratio	95% Conf. Interval	P value
Prior Surgery			
No	reference		
Yes	1.7	0.8 to 3.5	0.17
Fixation			
Cement	reference		
Cementless	0.5	0.2 to 0.9	0.03