http://dx.doi.org/10.2106/JBJS.K.01597

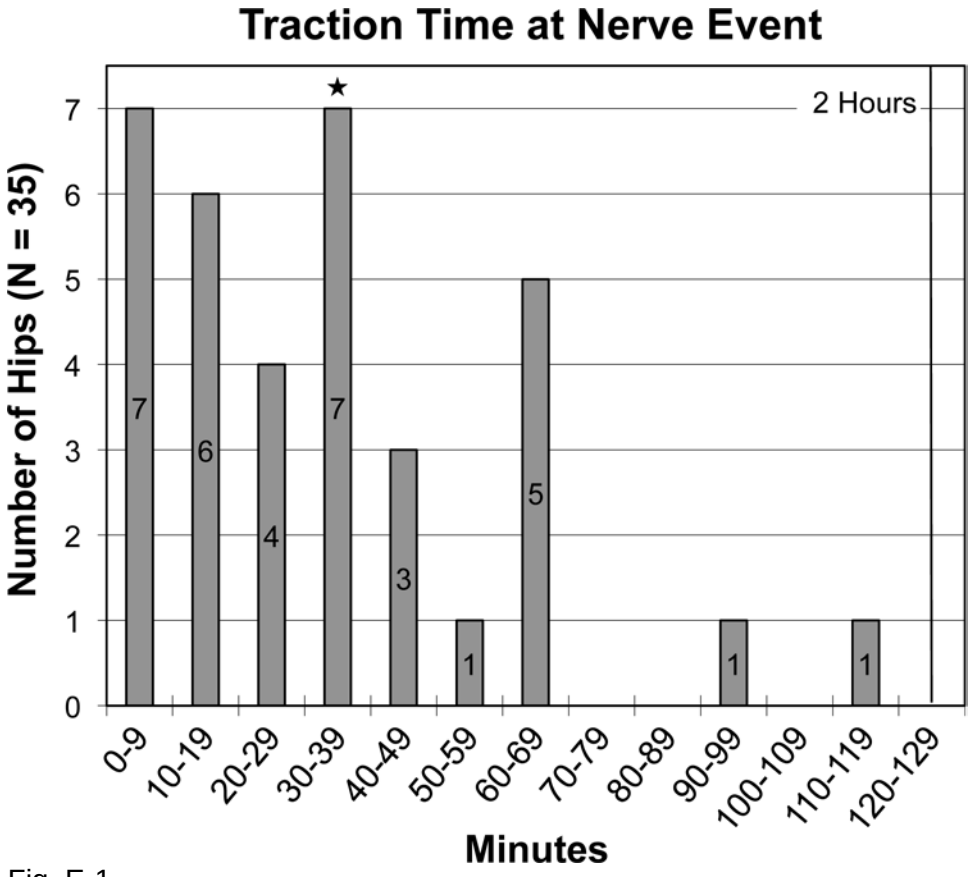

Fig. E-1

Distribution of the cumulative traction time at the time of the nerve event in the thirty-five patients who experienced nerve dysfunction. The star indicates the average traction time (32.7 ± 28.1 minutes) of all thirty-five patients at the time of the nerve event.

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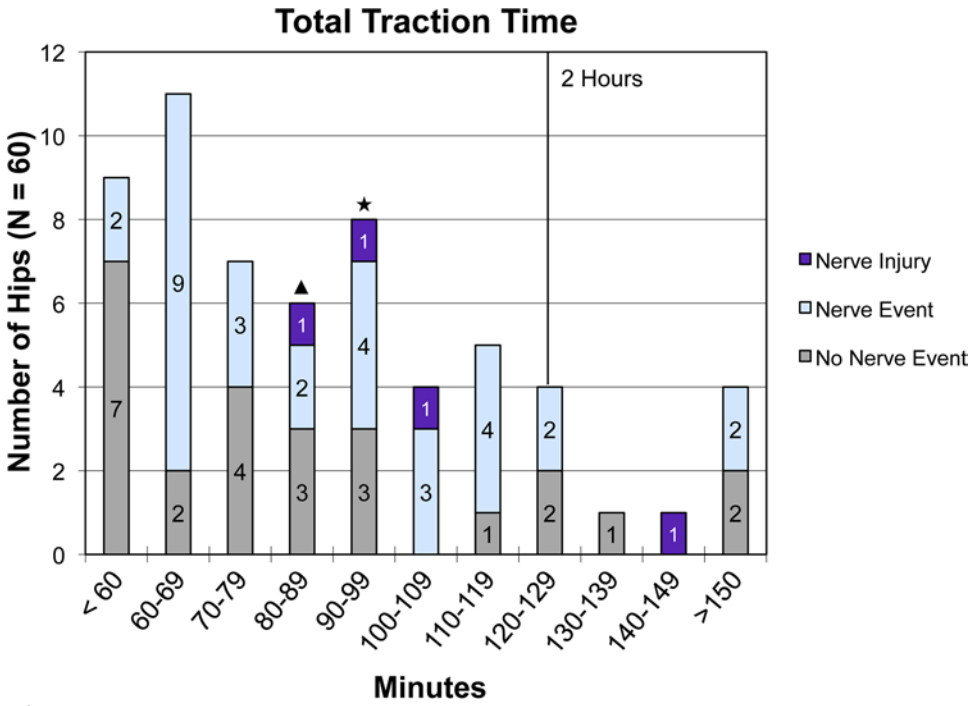

Fig. E-2

Distribution of the total cumulative traction time for the twenty-five patients who did not experience nerve dysfunction (mean, 82.3 ± 35.4 minutes [triangle]) and the thirty-five patients who had a nerve event (95.9 ± 41.9 minutes [star]), including four patients who sustained a nerve injury. Total traction time did not increase the odds of a nerve event ($p = 0.201$).

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TABLE E-I Complications During Hip Arthroscopy as Reported in the Literature

					Complications		Nerve Injuries			No. of Nerves Injured		
Study*	Collection Period	Patient Position	Mean Age *(yr)*	No. of Hips	No.	%	No.	%	Complications Due to Nerve Injury (% of all complications during hip arthroscopy)	Pudendal	Sciatic	Other
Eriksson et al. (1986)[1]	1976-1986	Supine	—	30	2	6.7	1	3.3	50	0	0	1
Glick (1990)[2]	1987-1990†	Lateral	—	60	9	15.0	8	13.3	89	4	4	0
Schindler et al. (1995)[3]	1981-1991	Supine	16	24	2	8.3	2	8.3	100	2	0	0
McCarthy and Busconi (1995)[4]	1989-1993	Lateral	37	94	2	2.1	2	2.1	100	0	0	2
Byrd (1994)[5]	<1994†	Supine	44	20	2	10.0	2	10.0	100	2	0	0
Hunter and Ruch (1996)[6]	1989-1995	Lateral, supine‡	—	65	2	3.1	2	3.2	100	2	0	0
Kim et al. (1998)[7]	1991-1995	Supine	28	20	5	25.0	4	20.0	80	4	0	0
Griffin and Villar (1999)[8]	1990-1997	Lateral	37	640	10	1.6	4	0.6	40	0	3	1
Byrd and Jones (2000)[9]	1993-1997	Supine	38	38	2	5.3	1	2.6	50	0	0	1
Byrd (1998)[10]	<1998†	Supine	—	1491	20	1.3	13	0.9	65	6	4	3
O'Leary et al. (2001)[11]	1995-1998	Supine	34	86	0	0.0	0	0.0	0	0	0	0
Margheritini and Villar (1999)[12]	<1999†	Lateral	42	133	0	0.0	0	0.0	0	0	0	0
Farjo et al. (1999)[13]	1987–1999†	Lateral	41	28	3	10.7	3	10.7	100	2	1	0
Sequential series												
Sampson (2001)[14]	1977-2001†	Lateral, supine§	—	530	34	6.4	20	3.8	59	4	15#	1#
Sampson (2005)[15]	1977-2005†	Lateral, supine§	—	1001	38	3.8	20	2.0	53	4	15#	1#
Clarke et al. (2003)[16]	1989-2001	Lateral	37	1054	15	1.4	4	0.4	27	0	3	1
Kocher et al. (2005)[17]	2001-2004	Supine	15	54	7	13.0	3	5.6	43	3	0	0
Lo et al. (2006)[18]	2002-2004	Supine	42	73	17	23.3	5	6.8	29	0	5	0
Sampson (2005)[19]	2002-2005†	Lateral	—	158	1	0.6	0	0.0	0	0	0	0

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Philippon et al. (2007)[20]	2000-2005	Supine	31	45	3**	6.7	0	0.0	0	0	0	0
Stähelin et al. (2008)[21]	2004-2005	Supine	42	22	6	27.3	6	27.3	100	1	3	2
Philippon et al. (2009)[22]	2005	Supine	41	112	0	0.0	0	0.0	0	0	0	0
Bardakos et a. (2008)[23]	2000-2006	Lateral	33-35	71	0	0.0	0	0.0	0	0	0	0
Merrell et al. (2007)[24]	<2007†	Lateral, supine	—	30	0††	0.0	0††	0.0	0	0	0	0
Byrd and Jones (2009)[25]	2003-2007	Supine	33-35	207	3	1.4	2	1.0	67	1	0	1
Larson and Giveans (2008)[26]	2004-2007	Supine	35	100	7	7.0	1‡‡	1.0	14	0	1‡‡	0
Horisberger et al. (2010)[27]	2004-2007	Supine	41	105	12	11.4	11	10.5	92	9#	2	1#
Byrd and Jones (2009)[28]	1993-2008	Supine	46	31	0	0.0	0	0.0	0	0	0	0
Nwachukwu et al. (2011)[29]	2000-2008	Supine	16	218	4	1.8	2	0.9	50	2	0	0
Gedouin et al. (2010)[30]	<2010†	Lateral, supine	31	111	7	6.3	2§§	1.8	29	1	0	1§§
Present study	1998-2001	Lateral	37	60	14	23.3	4	6.7	100	0	4	0
Total	—		—	6181	193	3.1	102	1.7	52.8	43	45	15

*Studies with less than twenty patients were excluded. When sequential studies were found, only the most recent report was included for data analysis. †Exact date(s) unknown. ‡The first five patients were in the lateral position, and the remaining sixty were supine. §All but eleven patients were in the lateral position. #Represents an injury involving multiple nerves, counted as a single complication. **Complications included lysis of adhesions. ††The traction system used a beanbag instead of a perineal post. ‡‡The nerve injury was due to either traction or a Marcaine (bupivacaine) injection. §§The nerve injury resulted from conversion to an open procedure.