Supplementary table 3 - Data extraction of the included articles listed according to diagnostic category

Inguinal-related

Ref	Study type	N	Mean Age (year)	Type of Sports	Diagnosis	Mean Duration symptoms (months)	Intervention treatment group	Intervention control group(s)	Mean follow-up (months)	Treatment success (%)	Athletes RTP (%)	D&B Quality score (points)
Comin et al. (2013)	RCT	36	43.2	Football	Sportman's hernia	9.1	Radiofrequency denervation of the ilioinguinal nerve and inguinal ligament (RF)	Corticosteroid injection inguinal ligament (CI)	6	RF: 77% † Cl: 8%	RF: NL CI: NL	18
Muscha weck and Berger (2010)	PCS	87	29	NL	Sportman's hernia	3	Surgical open hernia repair with or without partial removal of the genito- femoral nerve	NA	1	79%	84%	16
Canonico et al. (2007)	PCS	16	19	Football	Chronic inguinal pain	NL	Surgical open hernia repair	NA	12	100%	100%	14
Economo poulos et al. (2013)	ССТ	28	23.5	NL	Sportman's hernia	NL	Surgical open hernia repair (HR)	Surgical minimal repair technique (MR)	41	HR: 93% ¥ MR: 78%	HR: 93% † MR: 64%	14
Malycha and Lovell (1992)	RCS	44	25.4	Football	Sportman's hernia	9	Surgical open hernia repair	NA	6	98%	93%	13
Kumar et al. (2002)	RCS	25	30	Football	Sportman's hernia	NL	Surgical external oblique repair and hernia repair	NA	6	82%	93%	12
Van Veen et al. (2007)	PCS	55	25	Football	Sportman's hernia	NL	Surgical laparoscopic hernia repair	NA	3	88%	88%	12
Branniga n et al. (2000)	RCS	85	24	Irish football	Gilmore's groin hernia	13.6	Surgical open hernia repair	NA	NL	96%	96%	11
Irshad et al. (2001)	RCS	22	26	lce hockey	Hockey groin syndrome	6	Surgical external oblique repair with neurotomy of the ilioinguinal nerve	NA	31.2	82%	100%	11
Paajanen et al. (2004)	RCS	41	27	Football	Sportman's hernia	9.2	Surgical laparoscopic hernia repair	NA	51	95%	95%	10
Lloyd et	RCS	28	38.5	NL	Inguinal	18	Surgical laparoscopic	NA	6	57%	92%	10

al. (2008)					ligament pathology		inguinal ligament tenotomy					
Ingoldby (1997)	RCS	28	NL	Rugby	Inguinal canal-related pain	NL	Surgical open hernia repair	NA	NL	100%	100%	9
Ekstrand and Ringborg (2001)	RCT	66	25	Football	Chronic groin pain due to incipient hernia and/or nerve entrapment	13	Surgical open hernia repair with neurotomy of the ilio- inguinal and ilio- hypogastric nerves (OR)	(1) Standard physical therapy (PT), (2) Exercise therapy (ET), and (3) Wait and see (WS)	6	OR: 94% † (PT) 19% (ET) 39% (WS) 27%	NL	9
Srinivasa n and Schuricht (2002)	RCS	15	27.1	Football	Sportman's hernia	11.1	Surgical laparoscopic hernia repair	NA	12.1	100%	87%	9
Bernhard t et al. (2014)	PCS	28	29	Football	Sportman's hernia	NL	Surgical laparoscopic hernia repair	NA	94	88%	NL	9
Evans (1998)	RCS	154	24.1	Football	Sportman's hernia	NL	Surgical laparoscopic hernia repair	NA	NL	99%	93%	8
Edelman and Selesnick (2006)	RCS	10	31.9	Football and Basketbal	Sportman's hernia	NL	Surgical laparoscopic hernia repair	NA	12	80%	NL	8
Jakoi et al. (2013)	RCS	43	NL	lce Hockey	Sportman's hernia	NL	Surgical treatment (not specified)	NA	24	27%	80%	8
Smedber g et al. (1985)	RCS	53	29.1	Football	Athletic groin hernia	10	Surgical open hernia repair	NA	41	90%	98%	7
Lacroix et al. (1998)	RCS	11	NL	lce hockey	Lower abdominal pain syndrome	NL	Surgical external oblique repair with neurectomy of the ilio-inguinal nerve	NA	NL	91%	91%	7
Ziprin et al. (2008)	RCS	17	27	NL	Sportman's hernia	6	Surgical laparoscopic hernia repair	NA	6	94%	94%	7
Messaou di et al. (2012)	RCS	71	24	Football	Sportman's hernia	11	Surgical open hernia repair with bilateral percutaneous adductor release	NA	48	100%	94%	7
Steele et al. (2004)	RCS	47	NL	Football and Australia n football	Posterior inguinal wall deficiency	8	Surgical open hernia repair	NA	NL	81%	77%	6

Ahumad	RCS	12	25	Running	Sportman's	9	Surgical open hernia repair	NA	4	100%	100%	6
a et al. (2005)					hernia		with or without adductor release					
Diaco et al. (2005)	RCS	96	NL	NL	Sportman's hernia	NL	Surgical open hernia repair or laparoscopic repair with or without adductor release	NA	NL	98%	96%	6
Cavalli et al. (2014)	RCS	80	34.7	NL	Sportman's hernia	NL	Surgical open hernia repair with neurectomy and with or without adductor/rectus abdominis release	NA	NL	100%	100%	6
Simonet et al. (1995)	RCS	10	25.5	lce hockey	Sportman's hernia	9.6	Surgical open hernia repair	NA	NL	100%	100%	5
Urquhart et al. (1996)	RCS	24	31.8	Football	Groin disruption	6	Surgical open hernia repair	NA	12	72%	72%	5
Susmallia n et al. (2004)	RCS	35	24.3	Football	Sportman's hernia	NL	Surgical open hernia repair	NA	14.6	97%	97%	5
Chernyav sky et al. (2011)	RCS	96	22.6	Football and Rugby	Athlete's Hernia	NL	Surgical muscle repair with neurectomy of the affected nerves	NA	1.5	98%	98%	4
Preskitt (2011)	RCS	100	NL	NL	Sportman's hernia	NL	Surgical open hernia repair	NA	NL	98%	98%	4

Pubic-related

Ref	Study type	N	Mean Age (year)	Type of Sports	Diagnosis	Mean Duration symptoms (months)	Intervention treatment group	Intervention control group(s)	Mean follow-up (months)	Treatment success (%)	Athletes RTP (%)	D&B Quality score (points)
McKim and Taunton (2001)	PCS	11	38.9	Football	Osteitis pubis	20.6	Compression short	NA	0	33%	NL	16
Verrall et al. (2007)	PCS	27	23	Australia n Football	Pubic bone stress injury	4.5	Exercise therapy	NA	24	74%	100%	13
Holt et	RCS	11	NL	NL	Osteitis	NL	Corticosteroid injection	NA	NL	91%	NL	12

al. (1995)					pubis		symphysis					
Sansone et al. (2014)	RCS	32	24	Football	Pubalgia	NL	Surgical adductor and/or rectus abdominis tenotomy	NA	72	75%	72%	11
Radic and Annear (2008)	RCS	23	27	Australia n football	Osteitis pubis	13.2	Surgical curettage of the pubic symphysis	NA	24.3	74%	70%	10
Shaker et al. (1991)	RCS	78	22	Football	Osteitis pubis	3	NSAIDs and physcial therapy. Corticosteroid injection pubic bone if non-response	NA	NL	75%	75%	9
de Queiroz et al. (2014)	RCS	30	24.4	Football	Pubalgia	18.6	Surgical adductor tenotomy	NA	36	100%	100%	9
O'Connel l et al. (2002)	RCS	16	28.4	NL	Osteitis pubis	NL	Corticosteroid injection symphysis	NA	6	69%	100%	6
Fricker et al. (1991)	RCS	45	30.3	Running	Osteitis pubis	10.1	NSAIDs and physcial therapy	NA	16.5	75%	49%	5
Meyers et al. (2008)	RCS	546 0	NL	Football	Athletic pubalgia	NL	Surgical open muscle reattachments and/or releases	NA	NL	95%	95%	2

Adductor-related

Ref	Study type	N	Mean Age (year)	Type of Sports	Diagnosis	Mean Duration symptoms (months)	Intervention treatment group	Intervention control group(s)	Mean follow-up (months)	Treatment success (%)	Athletes RTP (%)	D&B Quality score (points)
Weir et al. (2011)	RCT	48	28.1	Football	Long- standing adductor- related groin pain	8	Exercise therapy and manual therapy (MM)	Exercise therapy (ET)	5	MM: 50% ¥ ET: 55%	MM: 50% ¥ ET: 55%	24
Holmich et al. (1999)	RCT	68	30	Football	Long- standing adductor- related groin	9.9	Exercise therapy (ET)	Standard physical therapy (PT)	6.5	ET: 74% † PT: 30%	ET: 79% † PT: 14%	23

					pain							
Schilders et al. (2013)	PCS	43	26.4	Football	Long- standing adductor- related groin pain	9.4	Surgical adductor tenotomy	NA	40.2	81%	98%	19
Maffulli et al. (2012)	PCS	29	28	Football	Adductor longus tendinopath y	20	Surgical bilateral percutaneous adductor tenotomy	NA	36	46%	90%	17
Weir et al. (2009)	RCS	30	20.5	Football	Long- standing adductor- related groin pain	9	Manual therapy technique	NA	9	84%	90%	16
Schilders et al. (2007)	PCS	24	27.7	Football	Adductor- related groin pain	4.8	Corticosteroid injection symphysis	NA	12	33%	NL	14
Schilders et al. (2009)	RCS	28	33.4	Football	Adductor longus dysfunction	17.8	Corticosteroid injection symphysis	NA	12	68%	NL	14
Atkinson et al. (2009)	PCS	48	NL	Australia n football	Long- standing adductor- related groin pain	16.7	Surgical percutaneous adductor tenotomy	NA	36	67%	81%	13
Weir et al. (2010)	RCS	44	27	Football	Long- standing adductor- related groin pain	NL	Exercise therapy and passive joint mobilisation	NA	22	71%	77%	13
Robertso n et al. (2011)	RCS	109	25.9	Gaelic football	Adductor tendinopath y	15	Surgical open adductor tenotomy	NA	26	72%	92%	11
Schlegel et al. (2009)	RCS	19	28.5	Rugby	Proximal adductor tendon rupture	NL	Exercise therapy (ET)	Surgical adductor repair (SR)	NL	ET: 100% SR: NA (n<10)	ET: 100% SR: NA (n<10)	10
Akermar k and Johansso n (1992)	RCS	16	28.5	Football and Ice hockey	Chronic groin pain at the origin of the adductor longus muscle	18.3	Surgical adductor tenotomy	NA	34.8	100%	94%	9

Iliopsoas-related

Ref	Study type	Ν	Mean Age (year)	Type of Sports	Diagnosis	Mean Duration symptoms (months)	Intervention treatment group	Intervention control group(s)	Mean follow-up (months)	Treatment success (%)	Athletes RTP (%)	D&B Quality score (points)
Mozes et al. (1985)	RCS	40	24	Football	lliopsoas syndrome	NL	Corticosteroid injection iliopsoas	NA	NL	100%	88%	12
Micheli and Solomon (1997)	RCS	13	17.7	Dancers	lliopsoas tendinitis	NL	Corticosteroid injection iliopsoas	NA	13	76%	NL	6

Chronic groin pain

Ref	Study type	N	Mean Age (year)	Type of Sports	Diagnosis	Mean Duration symptoms (months)	Intervention treatment group	Intervention control group(s)	Mean follow-up (months)	Treatment success (%)	Athletes RTP (%)	D&B Quality score (points)
Mann et al. (2009)	PCS	73	30	Football	Chronic groin pain	5	Surgical laparoscopic hernia repair	NA	NL	73%	99%	16
Jansen et al. (2009)	PCS	21	24.8	Football	Chronic groin pain	9.3	Exercise therapy	NA	14	79%	NL	14
Kluin et al. (2004)	RCS	14	36	Football	Chronic groin pain	NL	Surgical laparoscopic hernia repair	NA	12	86%	93%	12
Genitsari s et al. (2004)	RCS	131	23.5	Football	Chronic groin pain	4.5	Surgical laparoscopic hernia repair	NA	60	99%	NL	8
Van Der Donckt et al. (2003)	RCS	41	27	Football	Chronic groin pain	15.2	Surgical open hernia repair with adductor release	NA	150	98%	100%	7
Polglase et al. (1991)	RCS	63	24	Australia n Football	Chronic groin pain	9.2	Surgical open hernia repair with or without division of the ilio-inguinal nerve	NA	NL	95%	95%	6

Combined diagnoses

Ref	Study	N	Mean	Type of	Diagnosis	Mean	Intervention treatment	Intervention	Mean	Treatment	Athletes	D&B Quality
	type		Age	Sports		Duration	group	control group(s)	follow-up	success (%)	RTP (%)	score (points)

			(year)			symptoms (months)			(months)			
Paajanen et al. (2011)	RCT	60	31	Football	Sportman's hernia and/or adductor tendinitis	12.5	Surgical laparoscopic hernia repair with or without an adductor tenotomy (LR)	Exercise therapy (ET)	12	LR: 97% † ET: 50%	LR: 97% † ET: 50%	21
Topol et al. (2005)	PCS	24	25	Rugby	Osteitis pubis and/or adductor tendinopath Y	15.5	Dextrose injections painful sites	NA	17.2	85%	92%	16
Mei-Dan et al. (2013)	RCS	140	23	Football	Chronic groin pain with or without lower abdominal pain	5	Surgical adductor tenotomy with or without laparoscopic hernia repair	NA	NL	80%	NL	12
Biedert et al. (2003)	RCS	24	25.8	Football	Chronic symphysis syndrome	17	Surgical rectus abdominis and/or adductor tenotomy	NA	79.2	85%	96%	11
Topol and Reeves (2008)	PCS	72	NL	Rugby	Chronic groin/abdom inal pain	11	Dextrose injections adductors	NA	26	80%	92%	11
Meyers et al. (2000)	RCS	157	NL	Football	Lower abdominal pain syndrome or inguinal pain	14.4	Surgical reattachment rectus abdominis with or without adductor release	NA	46.8	95%	95%	9
Martens et al. (1987)	RCS	81	26.3	Football	Adductor tendinitis and/or	10	Surgical adductor and/or rectus abdominis tenotomy	NA	24	88%	NL	8

					rectus abdominis tendopathy							
Dojcinovi c et al. (2012)	PCS	99	23.9	Football	Sportsman's hernia and/or adductor tendinosis	NL	Surgical open hernia repair with neurectomy and with or without adductor release	NA	12	96%	97%	7
Brown et al. (2008)	RCS	98	27.1	lce hockey	Intractable lower abdominal and groin pain	NL	Surgical external oblique repair with neurectomy of the ilio-inguinal nerve	NA	NL	99%	99%	4
Garvey and Hazard (2013)	ССТ	66	33	NL	Multiple diagnoses related to groin pain	NL	Surgical treatment (various) (ST)	Standard physical therapy and corticosteroid injection (PT)	156	ST: 94% ¥ PT: 93%	ST: NL PT: NL	2

RCT = Randomised Controlled Trial, PCS = Prospective Case Series, RCS = Retrospective Case Series, N = Number, NA = Not Applicable, NL = Not Listed. † =

significant improvement in favour of treatment group, ¥ = no significant difference in outcome between treatment groups