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TABLE E-1 Study Characteristics

	Study Char	acteristi	103	1		1	1	,	1	1	1	
									Indepe ndent	No. of Eligibl e	No. of Patients	
First			Level of			No. of	Procedure Date	Determination of	Exami	Patient	with	Duration of
Author	Journal	Year	Evidence	Study Design	Country	Surgeons	Range*	Treatment	ners	S	Follow-up	Follow-up† (mo)
Barrett ³⁶	Am J Sports Med	2005	III	Retrospective comparative	United States	1	1994 to 2000	Patient choice	No	63	63	41 (24 to 99)
Chang ³⁷	Arthrosco py	2003	III	Retrospective comparative	United States	1	1992 to 1995	Patient choice	Yes	89	79	37 (24 to 56)
Edgar ³⁸	Clin Orthop Relat Res	2008	II	Prospective comparative	United States	1	1997 to 2000	Patient choice (25%), randomization (75%)	Yes	104	83	50 (36 to 70)
	Am J Sports Med	2005	II	Prospective comparative	Switzerlan d	2	1995 to 1998	Chronological division	Yes	268	186	71 (54 to 80)
Harner ⁴⁰	Clin Orthop Relat Res	1996	III	Retrospective comparative	United States	2	1986 to 1989	Patient choice and allograft availability	No	244	90	45 (30 to 75)
Kleipool ⁴¹	Knee Surg Sports Traumatol Arthrosc	1998	II	Prospective comparative	Netherlan ds	1	1989 to 1991	Allograft availability	Yes	68	62	49 (30 to 74)
Peterson ⁴²	Arthrosco py	2001	II	Prospective comparative	United States	1	1991 to 1992	Patient choice	No	119	60	63 (55 to 78)
Saddemi ⁴³	Arthrosco py	1993	III	Retrospective comparative	United States	1	1988 to 1990	Patient choice	No	57	50	24
Victor ⁴⁴	Int Orthop	1997	II	Prospective comparative	Belgium	1	NR	Allograft availability	Yes	73	73	24
Total	-			-				·		1085	746	49 (24 to 99)

^{*}NR = not reported. †The values are given as the mean, with the range in parentheses.

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TABLE E-2 Surgical Technique*

Burgiour reemm	1		-	_			-	T				
	Autogr	aft Technique			Allograft	Technique	Allograft Properties					
		Femoral				Femoral		Donor Age	Sterilization			
Graft Type	Approach	Fixation	Tibial Fixation	Graft Type	Approach	Fixation	Tibial Fixation	(yr)	Method	Storage		
Bone-patellar tendon-bone	Endoscopic	screw or Endobutton	Multiple	Bone-patellar tendon-bone	Endoscopic	Interference screw and/or Endobutton	Multiple	NR	Non-irradiated	Fresh frozen		
Bone-patellar tendon-bone	Two-incision; iliotibial band tenodesis	Interference screw	Interference screw	Bone-patellar tendon-bone	Two-incision; iliotibial band tenodesis	Interference screw	Interference screw		30 non- irradiated 10 irradiated (dose unknown)†	Fresh frozen		
Hamstring (quadruple)	Endoscopic	Endobutton and interference screw	Interference screw and washer	Hamstring (quadruple)	Endoscopic	Endobutton and interference screw	Interference screw and washer	NR	Non-irradiated	20 cryopreservation, 27 fresh frozen		
Bone-patellar tendon-bone	Endoscopic	Interference screw	Interference screw	Bone-patellar tendon-bone	Endoscopic	Interference screw	Interference screw	NR	Acetone solvent drying; irradiation (1.5 Mrad)	NR		
Bone-patellar tendon-bone	Two- incision	NR	NR	60 bone- patellar tendon-bone, 4 Achilles	Two-incision	NR	NR	NR	Non-irradiated	Fresh frozen		
Bone-patellar tendon-bone	Endoscopic	Interference screw	Interference screw or staple	Bone-patellar tendon-bone	Endoscopic	Interference screw	Interference screw or staple	<50	Non-irradiated	Fresh frozen		
Bone-patellar tendon-bone	Endoscopic	Interference screw	Interference screw	Bone-patellar tendon-bone	Endoscopic	Interference screw	Interference screw	NR	Non-irradiated	Fresh frozen		
Bone-patellar tendon-bone	Two-incision	NR	NR	Bone-patellar tendon-bone	Two-incision	NR	NR	NR	Irradiated (2.0 Mrad)	Fresh frozen		
Bone-patellar tendon-bone	Endoscopic	NR	NR	Bone-patellar tendon-bone	Endoscopic	NR	NR	<45	NR	NR		
	Bone-patellar tendon-bone Bone-patellar tendon-bone Hamstring (quadruple) Bone-patellar tendon-bone Bone-patellar tendon-bone	Graft Type Bone-patellar tendon-bone Bone-patellar tendon-bone Bone-patellar tendoscopic Hamstring (quadruple) Bone-patellar tendon-bone Bone-patellar tendoscopic	Graft TypeApproachFixationBone-patellar tendon-boneEndoscopicInterference screw or EndobuttonBone-patellar tendon-boneTwo- incision; iliotibial band tenodesisInterference screwHamstring (quadruple)EndoscopicEndobutton and interference screwBone-patellar tendon-boneEndoscopicInterference screwBone-patellar tendon-boneTwo- incisionNRBone-patellar tendon-boneEndoscopicInterference screwBone-patellar tendon-boneEndoscopicInterference screwBone-patellar tendon-boneEndoscopicInterference screwBone-patellar tendon-boneEndoscopicInterference screwBone-patellar tendon-boneEndoscopicInterference screwBone-patellar tendon-boneTwo- incisionNRBone-patellar tendon-boneEndoscopicNR	Graft Type Approach Fixation Bone-patellar tendon-bone Bone-patellar tendon-bone Bone-patellar tendon-bone Bone-patellar tendon-bone Bone-patellar tendon-bone Hamstring (quadruple) Bone-patellar tendon-bone Bone-patellar tendon-bone	Graft TypeApproachFemoral FixationTibial FixationGraft TypeBone-patellar tendon-boneEndoscopic EndobuttonInterference screw or EndobuttonMultipleBone-patellar tendon-boneBone-patellar tendon-boneTwo- incision; iliotibial band tenodesisInterference screwInterference screwBone-patellar tendon-boneHamstring (quadruple)Endoscopic interference screwEndobutton and interference screwInterference screw and washerHamstring (quadruple)Bone-patellar tendon-boneEndoscopic incisionInterference screwBone-patellar tendon-boneBone-patellar tendon-boneBone-patellar tendon-boneEndoscopic screwInterference screwInterference screw or stapleBone-patellar tendon-boneBone-patellar tendon-boneEndoscopic screwInterference screwInterference screwBone-patellar tendon-boneBone-patellar tendon-boneTwo- incisionInterference screwBone-patellar tendon-boneBone-patellar tendon-boneTwo- incisionNRNRBone-patellar tendon-bone	Graft Type Approach Femoral Fixation Tibial Fixation Bone-patellar tendon-bone Endoscopic Interference screw or Endobutton Interference screw Int	Graft Type Approach Fixation Tibial Fixation Graft Type Approach Fixation Tibial Fixation Graft Type Approach Fixation Fixation Graft Type Approach Fixation Fixation Fixation Graft Type Approach Fixation Fixation Graft Type Approach Fixation Fixation Graft Type Approach Fixation Fixation Fixation Graft Type Approach Fixation Fixation Graft Type Approach Fixation Fixation Graft Type Approach Fixation Fixation Fixation Graft Type Approach Fixation Fixation Fixation Graft Type Approach Fixation Fixation Graft Type Approach Fixation Fixation Fixation Fixation Graft Type Approach Fixation Fixation Fixation Graft Type Approach Fixation Fixation Graft Type Graft Type Approach Fixation Fi	Graft Type Approach Femoral Fixation Tibial Fixation Graft Type Approach Femoral Fixation Tibial Fixation Graft Type Approach Femoral Fixation Tibial	Graft Type	Graft Type		

^{*}NR = not reported. †Data on allograft preparation were only available for forty of the forty-six cases.

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TABLE E-3 Demographic Characteristics According to Graft Source*

			Auto				Allograft								
			Time from			Percentag e of			Time from			Percentage			
		Male:	Injury to	Sports	Duration	Patients at		Male:	Injury to	Sports	Duration of	of Patients at			
First	Patient	Female	Reconstruction	Mechanism	of Follow-	Follow-	Patient	Female	Reconstruct	Mechanism	Follow-	Follow-up			
Author	Age† (yr)	Ratio	‡	(%)	up† (<i>mo</i>)	up (%)	Age† (yr)	Ratio	ion‡	(%)	up† (mo)	(%)			
Barrett ³⁶	45 (40 to	15:10	28 (0.2 to 301)	NR	48 (24 to	100% (25	47 (40 to	20:18	25 (0.3 to	NR	36 (24 to	100% (38 of			
	54)				99)	of 25)	58)		319)		74)	38)			
Chang ³⁷	29 (13 to	19:14	25 (0.5 to 196)	88% (29 of	41 (34 to	89% (33	33 (16 to	41:5	18 (0.4 to	91% (42 of	34 (24 to	88% (46 of			
	51)			33)	47)	of 37)	52)		118)	46)	56)	52)			
Edgar ³⁸	27	20:17	<12 wk (18	NR	52 (38 to	80% total	31	26:20	<12 wk (24	NR	48 (36 to	80% total			
			patients)		70)	(37 of			patients)		64)	(46 of NR)			
			>12 wk (19			NR)			>12 wk (22						
			patients)						patients)						
Gorschews ky ³⁹	NR	NR	NR	NR	NR	74% (101	NR	NR	NR	NR	NR	64% (85 of			
КУ						of 136)						132)			
Harner ⁴⁰	NR	21:5	<4 wk (1	85% (22 of	NR	32% (26	NR	51:13	<4 wk (52	84% (54 of	NR	40% (64 of			
			patient)	26)		of 82)			patients)	64)		162)			
			>4 wk (25						>4 wk (12						
			patients)						patients)						
Kleipool ⁴¹	28 (16 to	9:17	30 (1 to 128)	96% (25 of	52 (42 to	90% (26	28 (14 to	17:19	55 (0.25 to	97% (35 of	46 (30 to	92% (36 of			
12	38)			26)	72)	of 29)	43)		240)	36)	64)	39)			
Peterson ⁴²	25 (15 to	14:16	<3 mo (21	70% (21 of	65 (57 to	42% (30	28 (15 to	19:11	<3 mo (14	83% (25 of	63 (55 to	63% (30 of			
	43)		patients)	30)	78)	of 71)	55)		patients)	30)	73)	48)			
			>3 mo (9						>3 mo (16						
42			patients)						patients)						
Saddemi ⁴³	23	NR	<4 wk (9	NR	NR	86% (31	21	NR	<4 wk (6	NR	NR	90% (19 of			
			patients)			of 36)			patients)			21)			
			>4 wk (22						>4 wk (13						
44			patients)						patients)			10000			
Victor ⁴⁴	NR	NR	NR	NR	24	100% (48 of 48)	NR	NR	NR	NR	24	100% (25 of 25)			

^{*}Significant differences (p < 0.05) are shown in bold. NR = not reported. †The values are given as the mean, with the range in parentheses (when available). ‡Unless otherwise specified, the values are given as the mean (in months), with the range in parentheses.

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TABLE E-4 Patient-Oriented Outcomes and Composite Scales*

					IKDC Final Rating											
		Symptom S	cales			A	utograft			A.	llograft				Tegner	
				P		Near		Severely		Near		Severely	P			P
First Author	Form	Autograft	Allograft	Value	Normal	Normal	Abnormal	Abnormal	Normal	Normal	Abnormal	Abnormal	Value	Autograft	Allograft	Value
Barrett ³⁶	Lysholm	92	91	NS	48%	48%	4% (1 of	0% (0 of	50%	37%	13% (5 of	0% (0 of	0.614	4.3	4.1	NS
					(12 of	(12 of	25)	25)	(19 of	(14 of	38)	38)				
					25)	25)			38)	38)						
Chang ³⁷	Lysholm	96	94	0.25				N	ot studied	l				N	ot studied	
Edgar ³⁸	Lysholm	91	93	0.75	32%	51%	11% (4 of	5% (2 of	41%	41%	13% (6 of	4% (2 of	NS	6.8	6.9	NS
					(12 of	(19 of	37)	37)	(19 of	(19 of	46)	46)				
					37)	37)			46)	46)						
Gorschewsky ³⁹	Lysholm	94	78	0.012	83% (84	4 of 101)	9% (9 of	8% (8 of	36% (3	1 of 85)	14% (12	49% (42	NR	N	ot studied	
							101)†	101)†			of 85)†	of 85)†				
Harner ⁴⁰	Cincinnati	85	86	NS	4% (1	35% (9	54% (14	8% (2 of	5% (3	44%	42% (27	9% (6 of	NS	N	ot studied	
					of 26)	of 26)	of 26)	26)	of 64)	(28 of	of 64)	64)				
										64)						
Kleipool ⁴¹	Lysholm	95	94	NS	27% (7	42%	31% (8 of	0% (0 of	47%	36%	14% (5 of	3% (1 of	NS	6	5	NS
					of 26)	(11 of	26)	26)	(17 of	(13 of	36)	36)				
						26)			36)	36)						
Peterson ⁴²	Lysholm	89	90	NS	Not studied							6.1	5.4	NS		
Saddemi ⁴³			Not studied									Not studied				
Victor ⁴⁴	Lysholm	93	85	0.27	Not studied							4.8	4.4	0.5		

^{*}IKDC = International Knee Documentation Committee, NR = not reported, NS = not significant. †Estimated from graphical depiction.

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TABLE E-5 Physical Examination—Laxity*

			-		Lachmar	1				Pivot Shift								
		Auto	graft			Allog	raft				Autog	raft			Allog	raft		
First Author	0	1	2	3	0	1	2	3	P Value	0	1	2	3	0	1	2	3	P Value
Barrett ³⁶	96%	4% (1	0% (0	_	82%	16%	3% (1		0.096	100%	0% (0	0%	0%	89%	8% (3	3%	0%	0.245
	(24 of	of 25)	of 25)		(31 of	(6 of	of 38)			(25 of	of 25)	(0 of	(0 of	(34 of	of 38)	(1 of	(0 of	
	25)				38)	38)				25)		25)	25)	38)		38)	38)	
Chang ³⁷ †	82%	18%	0% (0	0%	68%	32%	0% (0	0%	0.2	100%	0% (0	0%	0%	95%	5% (2	0%	0%	0.2
	(23 of	(5 of	of 28)	(0 of	(26 of	(12 of	of 38)	(0 of		(28 of	of 28)	(0 of	(0 of	(36 of	of 38)	(0 of	(0 of	
	28)	28)		28)	38)	38)		38)		28)		28)	28)	38)		38)	38)	
Edgar ³⁸	Not studied									Not studied								
Gorschewsky ³⁹	76% 24% (24 of 101) 2				25%	75% (64 of 85) 0.024			0.024	84%	16% (16 of 101)‡			36%	36% 64% (54 of 85)‡			
	(77 of (21 o			(21 of					(85 of				(31 of					
	101)				85)					101)‡				85)‡				
Harner ⁴⁰	NR	NR	NR	NR	NR	NR	NR	NR	NS	92% (24	of 26)	8% (2	of 26)	89% (57	7 of 64)	11%	(7 of	NS
																6	4)	
Kleipool ⁴¹	65%	19%	15%	0%	58%	28%	14%	0%	NS	73% (19	23%	4%	0%	78%	14%	8%	0%	NS
	(17 of	(5 of	(4 of	(0 of	(21 of	(10 of	(5 of	(0 of		of 26)	(6 of	(1 of	(0 of	(28 of	(5 of	(3 of	(0 of	
	26)	26)	26)	26)	36)	36)	36)	36)			26)	26)	26)	36)	36)	36)	36)	
Peterson ⁴²	77%	20%	3% (1	_	80%	10%	10%		NS	90% (27	7% (2	3%		83%	13%	3%	_	NS
	(23 of	(6 of	of 30)		(24 of	(3 of	(3 of			of 30)	of 30)	(1 of		(25 of	(4 of	(1 of		
	30)	30)			30)	30)	30)					30)		30)	30)	30)		
Saddemi ⁴³	NR	NR	NR	NR	NR	NR	NR	NR	NS	NR	NR	NR	NR	NR	NR	NR	NR	NS
Victor ⁴⁴	Not studied									Not studied								

^{*}Significant differences (p < 0.05) are shown in bold. NR = not reported, NS = not significant. †Excludes the three patients in the allograft group with postoperative traumatic ruptures as well as five patients in the autograft group and five patients in the allograft group who did not return to clinic for final examination. ‡Estimated from graphical depiction.

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TABLE E-6 Physical Examination—Other*

							One-Leg Hop T	Test (percentage o	f knees with	I —			
	Exte	nsion Deficit	(deg)	Flex	ion Deficit ((deg)	>90% of va	lue for contralate	ral side)]	Difference (a	cm)	
									Autogr				
First Author	Autograft	Allograft	P Value	Autograft	Allograft	P Value	Autograft	Allograft	P Value	aft	Allograft	P Value	
Barrett ³⁶	0.4	0.4	0.915	3.4	3.8	0.756		0.74	0.23	0.381			
Chang ³⁷	0	0.6	0.2	1.8	4.7	0.07		Not studied	0.4	0.3	0.7		
Edgar ³⁸		Not studied			Not studied			Not studied	Not studied				
Gorschewsky ³⁹	Categoriz	Categoriz	NS	Categoriz	Categoriz	NS	79% (80 of	Not studied					
	ed	ed		ed	ed		101)	85)					
Harner ⁴⁰	3.0	1.2	0.05	NR	NR	NS	88% (23 of	75% (48 of	NR	Not studied			
							26)	64)					
Kleipool ⁴¹	Cat	cat	NS	cat	cat	NS	96% (25 of	92% (33 of	NS	0.27	0.22	NS	
_							26) 36)						
Peterson ⁴²	2.5	1.1	0.027	0.5	0.8	NS			Not studie	d			
Saddemi ⁴³	NR	NR	NS	NR	NR	NS			0.4†	0.4†	NS		
Victor ⁴⁴	Not studied			Not studied			NR NR 0.41			NR	NR	NS	

^{*}Significant differences (p < 0.05) are shown in bold. NR = not reported, NS = not significant. †Estimated from graphical depiction.

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TABLE E-7 Instrumented Laxity Measurements*

			Mear	R/L diff (1	nm)	Grouped Frequency Distribution								
							Autograft			Allograft				
First Author	Instrument	Force	Autograft	Allograft	P Value	<3 mm	3 to 5 mm	>5 mm	<3 mm	3 to 5 mm	>5 mm	P Value		
Barrett ³⁶	KT-1000	Maximum	0.1	1.5	0.398	96% (24 of	4% (1 of	0% (0 of	87% (33 of	5% (2 of	8% (3 of	NS		
		manual				25)	25)	25)	38)	38)	38)			
Chang ³⁷ †	KT-1000	Maximum	1.1	1.2	0.9	86% (19 of	5% (1 of	9% (2 of	82% (28 of	9% (3 of	9% (3 of	0.7		
		manual				22)	22)	22)	34)	34)	34)			
Edgar ³⁸	KT-1000	Maximum	1.6	1.4	NS	86% (32 of	5% (2 of	8% (3 of	87% (40 of	11% (5 of	2% (1 of	0.33		
		manual				37)	37)	37)	46)	46)	46)			
Gorschewsky ³⁹	KT-1000	Maximum	2.4 ‡	4.9‡	0.027	NR	NR	NR	NR	NR	NR	NR		
		manual												
Harner ⁴⁰	KT-1000	30 lb	1.9	1.8	NS	92% (24	4 of 26)	8% (2 of	94% (60	of 64)	6% (4 of	NS		
								26)			64)			
Kleipool ⁴¹	KT-1000	NR	NR	NR	NR	69% (18 of	23% (6 of	8% (2 of	75% (27 of	19% (7 of	6% (2 of	NS		
						26)	26)	26)	36)	36)	36)			
Peterson ⁴²	KT-1000	NR	NR	NR	NR	67% (20 of	27% (8 of	7% (2 of	73% (22 of	27% (8 of	0% (0 of	NS		
						30)	30)	30)	30)	30)	30)			
Saddemi ⁴³ §	Knee Signature	40 lb	0.2	0.3	NS	80% (20 of	20% (5 of	0% (0 of	83% (15 of	11% (2 of	6% (1 of	NS		
	System					25)#	25)#	25)#	18)#	18)#	18)#			
Victor ⁴⁴	KT-1000	20 lb	7.4**	8.3**	NS	NR	NR	NR	NR	NR	NR	NR		

^{*}Significant differences (p < 0.05) are shown in bold. NR = not reported, NS = not significant. †Excludes three patients in the allograft group with postoperative traumatic ruptures as well as five patients in the autograft group and five patients in the allograft group who did not return to clinic for final examination. Also excludes six patients in the autograft group and four patients in the allograft group with contralateral anterior cruciate ligament injuries. ‡Excludes ruptured transplants. §Excludes six patients in the autograft group and one patient in the allograft group with contralateral anterior cruciate ligament injuries. #Estimated from graphical depiction. **Values for the operatively treated knee are provided because differences between the operatively and nonoperatively treated knees were not available.

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TABLE E-8 Complications*

	Dor	Deep Infections			Arthrofibrosis			Reoperation rate			Failures					
				P			P			P			P			P
First Author	Symptom	Autograft	Allograft	Value	Autograft	Allograft	Value	Autograft	Allograft	Value	Autograft	Allograft	Value	Autograft	Allograft	Value
Barrett ³⁶	Anterior knee	4% (1 of	0% (0 of	NS	0% (0 of	0% (0 of	NS		NR			NR		0% (0 of	3% (1 of	NS
	pain	25)	38)		25)	38)								25)	38)	
Chang ³⁷	Retropatellar	9% (3 of	16% (7	0.4		NR		4% (1 of	11% (4	0.3	0% (0 of	4% (2 of	NR	0% (0 of	7% (3 of	0.1
	pain	33)	of 43)†					28)‡	of 38)‡		33)	46)		33)	46)	
Edgar ³⁸		Not studie	ed		0% (0 of	0% (0 of	NS	0% (0 of	0% (0 of	NS		NR		8% (3 of	4% (2 of	NS
					37)	46)		37)	46)					37)	46)	
Gorschewsky ³⁹	Kneeling pain	50% (50	0% (0 of	0.014		NR			NR			NR		6% (6 of	45% (38	0.005
	or	of 101)	85)											101)	of 85)	
	paresthesias															
Harner ⁴⁰		NR			NR			NR				NR		NR		
Kleipool ⁴¹	Anterior knee	50% (13	53% (19	NS		NR			NR		31% (8	36% (13	NS	0% (0 of	0% (0 of	NS
	pain	of 26)	of 36)								of 26)	of 36)		26)	36)	
Peterson ⁴²	Incision site	53% (16	7% (2 of	NR	0% (0 of	0% (0 of	NS	0% (0 of	0% (0 of	NS	NR			3% (1 of	3% (1 of	NS
	complaints	of 30)	30)		30)	30)		30)	30)					30)	30)	
Saddemi ⁴³	Patellofemoral	NR	NR	NS	0% (0 of	0% (0 of	NS	6% (2 of	0% (0 of	NS	16% (5	26% (5	NS	3% (1 of	5% (1 of	NS
	pain				31)	19)		31)	19)		of 31)	of 19)		31)	19)	
Victor ⁴⁴	Anterior knee	42% (20	40% (10	NS		NR			NR			NR		0% (0 of	12% (3	NR
	pain	of 48)	of 25)											48)	of 25)	

^{*}Significant differences (p < 0.05) are shown in bold. NR = not reported, NS = not significant. †Excludes three patients in the allograft group with postoperative traumatic ruptures. ‡Excludes three patients in the allograft group with postoperative traumatic ruptures as well as five patients in the autograft group and five patients in the allograft group who did not return to clinic for final examination.

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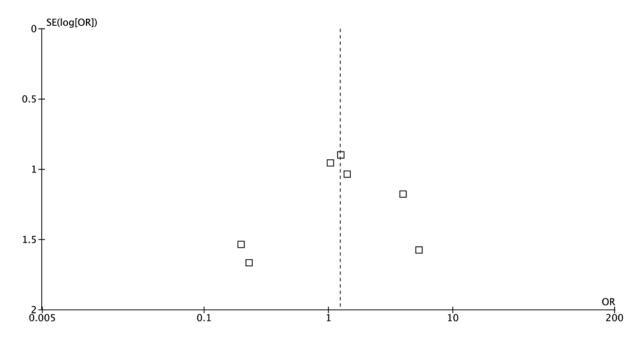


Fig. E-1
Funnel plot of instrumented laxity of >5 mm, which visually represents the standard error of the log odds ratio (a measure of precision) as a function of the odds ratio (a measure of the treatment effect). This funnel plot appears essentially symmetrical about the pooled estimate from the meta-analysis and is shaped like an inverted funnel, indicating no gross publication bias. SE (log [OR]) = standard error of the log odds ratio, and OR = odds ratio.

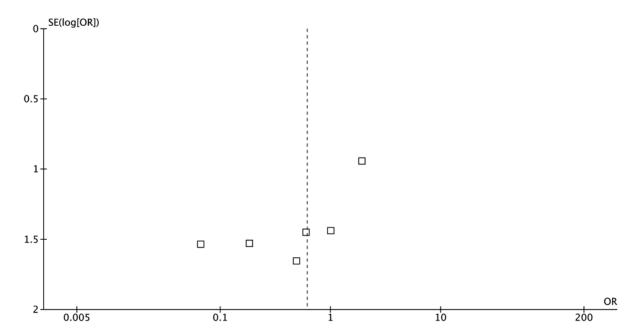


Fig. E-2
Funnel plot of clinical failures. This funnel plot appears somewhat asymmetrical about the pooled estimate from the meta-analysis and does not have the characteristic inverted funnel shape, reflecting the very low number of events and also possibly reflecting a publication bias against small studies that favor allograft success. SE (log [OR]) = standard error of the log odds ratio, and OR = odds ratio.