Table A1

Study	Journal	Year	Level of evidence ; Study design	Mean F/U (months)	Mean Age (year)
QT studies					
Shelton [51]	Arthroscopy	2004	3; Retrospective cohort	44.4	-
Lee S [34]	Arthroscopy	2004	4; Case series	41	28
Chen [7]	KSSTA	2006	3; Retrospective cohort	62	26
Lee MC [32]	Arthroscopy	2007	3; Retrospective cohort	59	27
Lee S [33]	JBJS	2007	2; Prospective cohort	44	29
Gorschewsky [16]	AJSM	2007	2; Prospective cohort	29	33
De Angelis [9]	Arthroscopy	2008	3; Retrospective cohort	66	-
Geib [13]	Arthroscopy	2008	3; Retrospective cohort	56.5	33.4
Kim [26]	Arthroscopy	2009	3; Retrospective cohort	24	26
Marcus [38]	Rev Bras Ortop	2009	3; Retrospective cohort	120	28.53
Barie [3]	Der Unfallchirurg	2010	2; Prospective cohort	12.4	-
Akoto [2]	BMC	2012	2; Prospective cohort	12	31
Schulz [49]	J sports med	2013	4; Case series	29.5	32
Kohl [29]	Knee	2014	2; Prospective cohort	49	13
Kwak [30]	BMC	2018	3; Retrospective cohort	31.2	34.5
QT v/s BPTB studies					
Gorschewsky [15]	KSSTA	2007	3; Retrospective cohort	35 QT ; 34 BPTB	32
Han [17]	Clin Orthop Relat Res	2008	3; Retrospective cohort	39.7 QT ; 42.1 HT	27.8 QT ; 27.8 BOTB
Geib [14]	Arthroscopy	2009	3; Retrospective cohort	55.6 QT ; 64.6 HT	31 QT ; 27 BPTB
Kim [27]	Arthroscopy	2009	3; Retrospective cohort	25.8 QT ; 26.2 HT	27.1 QT; 30.2 BPTB
Kim [25]	JBJS	2009	3; Retrospective cohort	Min 24	25.3 QT; 28.9 BPTB
Lund [36]	Arthroscopy	2014	2; Randomized controlled trial	Min 24	30 QT ; 31 BPTB
Kim [28]	AJSM	2014	2; Retrospective study	Min 24	31
QT v/s HT studies					
Sofu [53]	Eklem Hastalık Cerrahisi	2013	3; Retrospective cohort	37.6	26.8 QT; 28.6 HT
Lee JK [31]	AJSM	2016	3; Retrospective cohort	Min 24	31.1 QT; 29.9 HT
Haner [18]	Arthroscopy	2016	2; Prospective cohort	Min 24	35.9 QT; 35.8 HT
Runer [46]	KSSTA	2018	3; Prospective cohort	Min 24	34.6 QT; 34.4 HT
Cavaignac [6]	AJSM	2017	3; Retrospective cohort	40.8 QT ; 45.6 HT	32.1 QT; 30.9 HT

Studies characteristics (QT: Quadriceps Tendon; BPTB : Bone Patellar Tendon Bone; HT : Hamstring Tendon)

Table A2

Study	No. of QT knees (N)	KT 1000/2000 or Rolimeter		Lachman test		Pivot shift test		Lysholm score		Objective IKDC A or B (N)	Subjetive IKDC (mean score (+/- SD))	Donor site pain (N)	Graft failure (N)
		Mean (+/- SD) side-to-side difference (mm)	Side-to-side difference > 3mm (N)	Grade 0 (N)	Grade 0 or 1 (N)	Grade 0 (N)	Grade 0 or 1 (N)	Mean score (+/- SD)	Score > 84 (N)				
QT studies													
Shelton [51]	57	1.04	10							47		5	
Lee S [34]	67	2.1	17	47	64	41	64	90		58		8	4
Chen [7]	34	1.74 +/- 1.80	6	30	33			93.0 +/- 7.9	32	31		3	0
Lee MC [32]	137	2.4		113		100		93					
Lee S [33]	240	2.4 +/- 1.7	78		227		227	90		209		1	7 / 247 *
Gorschewsky [16]	193 Group 1 : 100 Group 2 : 93	0.7 +/- 1.0						G 1: 89 G 2: 94		187		2	2
De Angelis [9]	135	1.83 +/- 1.74 (N=44)	7 (N=44)								87 +/- 11.9 (N=77)	0	5
Geib [13]	205	1.01								181			
Kim [26]	59 Group 1 : 28 Group 2 : 31	G1 : 2.64 +/- 1.62 G2: : 1.79 +/- 1.09	16	51	58	55	58	G1: 91.8 +/- 9.7 G2: 94.5 +/- 7.9		52			1
Marcus [38]	17			13	17	17	17	97.35 +/- 3.12				0	2 / 19 **
Barie [3]	106	1.36 +/- 0.9	19					88.5 +/- 12.7	86	92			1
Akoto [2]	30	1.6 +/- 1.1		27	30	25	26			29	86.1 +/- 15.8	3	0
Schulz [49]	55	1.8 +/- 2.6	23	23	44	55		89 +/- 17.7	50	36	80.44 +/- 12.05	6	0
Kohl [29]	15	1.4 +/- 1.2	2					94 +/- 10	13	14			0

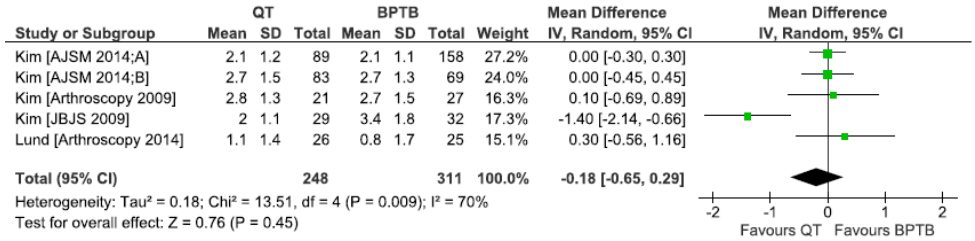
Kwak [30]	45	1.4 +/- 1.2	11	29	44	29	45	87.0 +/- 5.3	44		67.3 +/- 16.8	0	0
QT (in v/s BPTB studies)													
Gorschewsky [15]	93							94 +/- 9	81	78		14	2
Han [17]	72		24					91.5		66		6	2
Geib [14]	198		21	197	198	197	198					9	4
Kim [27]	21	2.79 +/- 1.32	9	17	19	17	19	90.1		18		4	1
Kim [25]	29	2.03 +/- 1.11	6	20	29	29	29	91.1 +/- 6.8				0	0
Lund [36]	26	1.1 +/- 1.4	7			23					84 +/- 13	2	0
Kim [28]	142	2.4	30	112	135	117	138	88.1		116	87		
QT (in v/s HT studies)													
Sofu [53]	23	2.79	12						20			5	
Lee JK [31]	48	2.1 +/- 1.9		32	47	32	47	92.1 +/- 8.7			80.2 +/- 10	6	
Haner [18]	25	2.0 +/- 1.2						82.5 +/ 18		18		7	0
Runer [46]	40							93.4 +/ 7.5	37			7	0
Cavaignac [6]	44	1.1 +/- 0.9	5	41	44	41	44	89.0 +/- 6.9	37		84 +/- 13		1/45 ***

Quadriceps Tendon (QT) autograft outcome in anterior cruciate ligament reconstruction

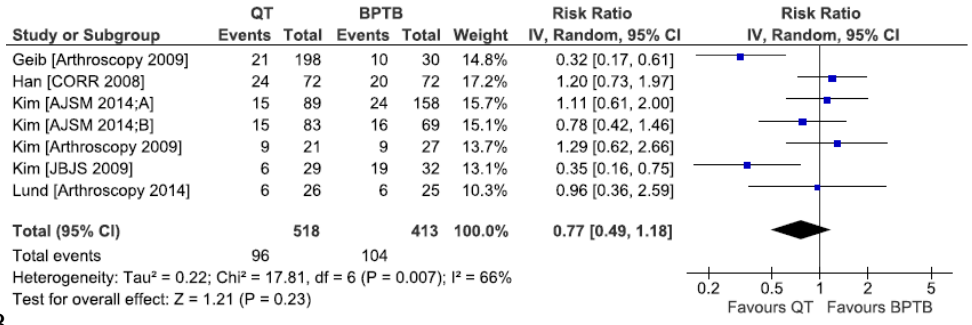
M: Months; N: Number; SD: Standard Deviation; IKDC: International Knee Documentation Committee; BPTB : Bone Patellar Tendon Bone; HT : Hamstring Tendon

Note.
*** The 7 cases with graft failure were not included in the study**
**** The two cases with graft failure were not included in the study**
***** The case with graft failure was not included in the study**

Figure A1



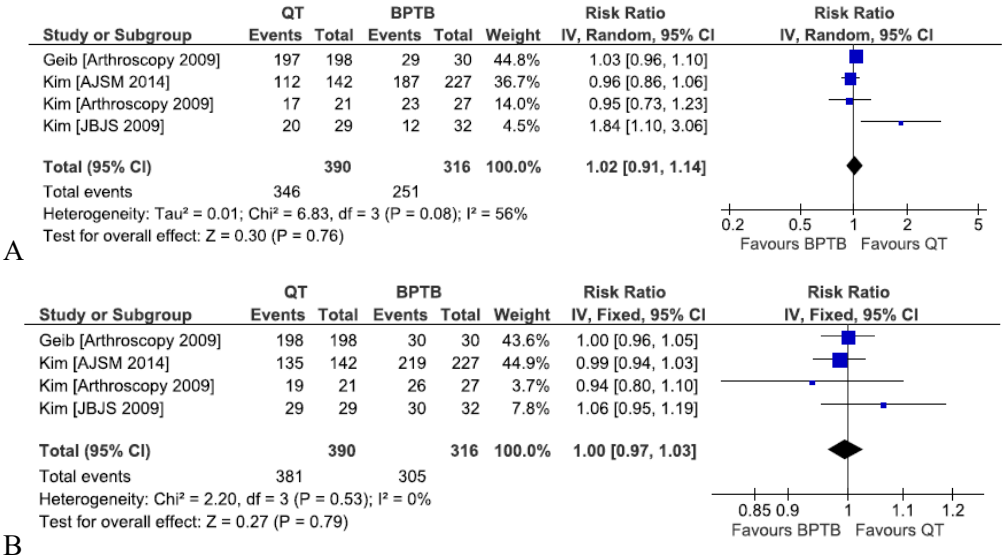
A



B

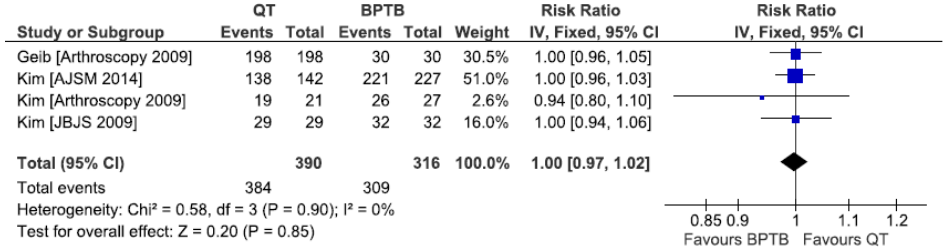
Forest plot showing KT arthrometer results. A) Mean Difference of side-to-side between the quadriceps tendon (QT) and bone patellar tendon bone (BPTB) autograft, B) Risk Ratio of side-to-side difference greater than 3 mm for the quadriceps tendon (QT) versus bone patellar tendon bone (BPTB) autograft

Figure A2

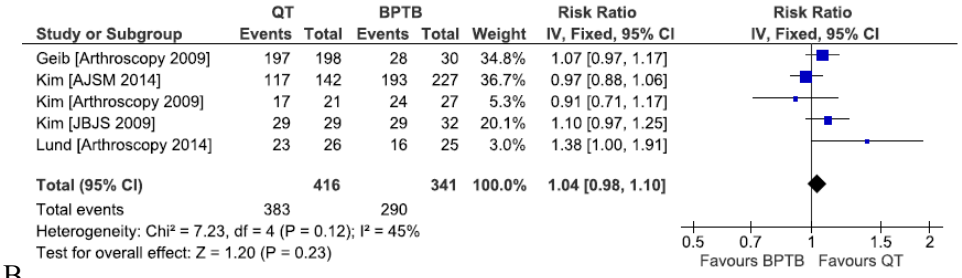


Forest plot showing Lachman test results. A) Risk Ratio of Lachman test grade 0, B) Risk Ratio of Lachman test grade 0 or 1, for the quadriceps tendon (QT) versus bone patellar tendon bone (BPTB) autograft

Figure A3



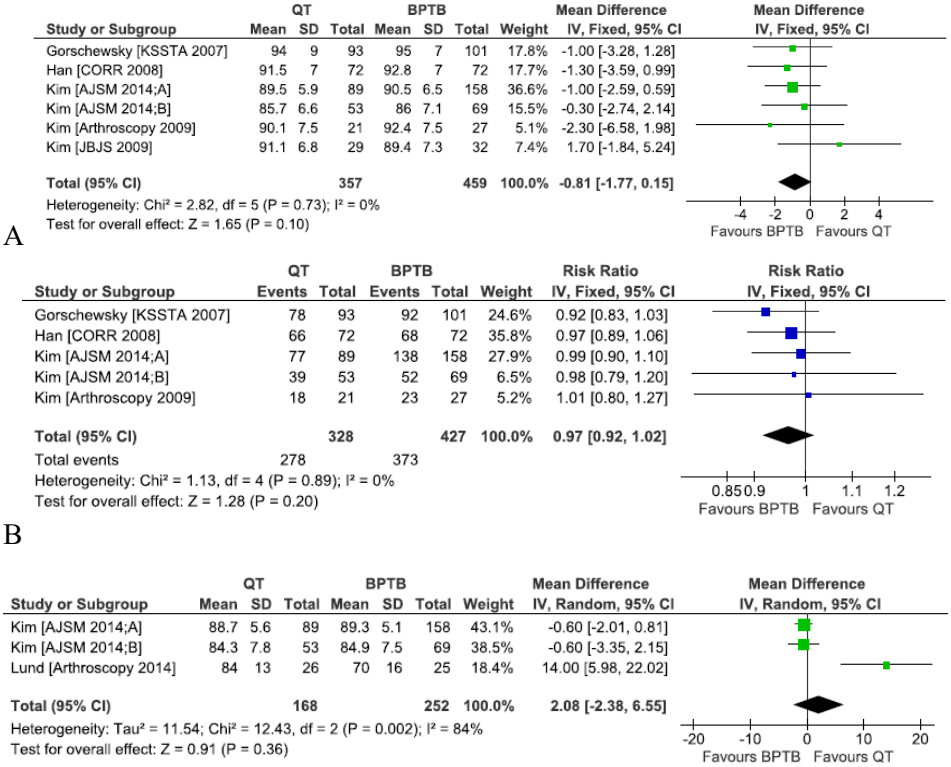
A



B

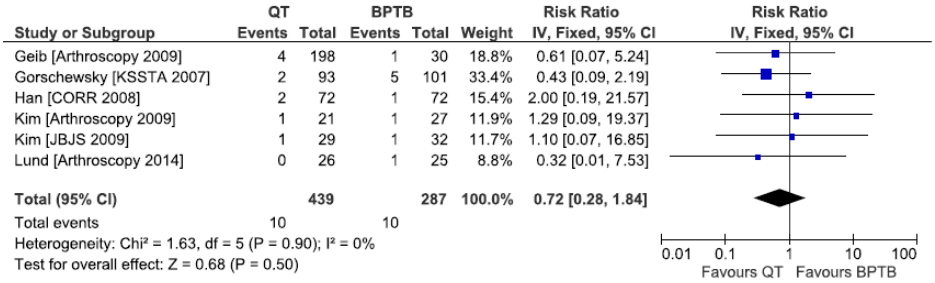
Forest plot showing Pivot Shift test results. A) Risk Ratio of Pivot Shift test grade 0, B) Risk Ratio of Pivot Shift test grade 0 or 1, for the quadriceps tendon (QT) versus bone patellar tendon bone (BPTB) autograft

Figure A4



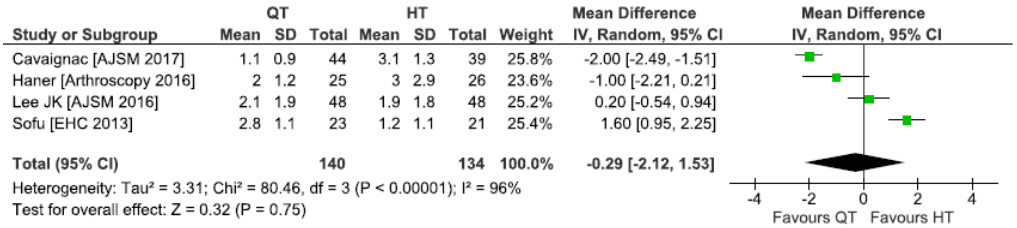
Forest plot showing functional results. A) Mean Difference of Lysholm score between quadriceps tendon (QT) and bone patellar tendon bone (BPTB) autograft, B) Risk Ratio of objective International Knee Documentation Committee (IKDC) grade A or B for the quadriceps tendon (QT) versus bone patellar tendon bone (BPTB) autograft, C) Mean Difference of subjective International Knee Documentation Committee (IKDC) score between the quadriceps tendon (QT) and bone patellar tendon bone (BPTB) autograft

Figure A5

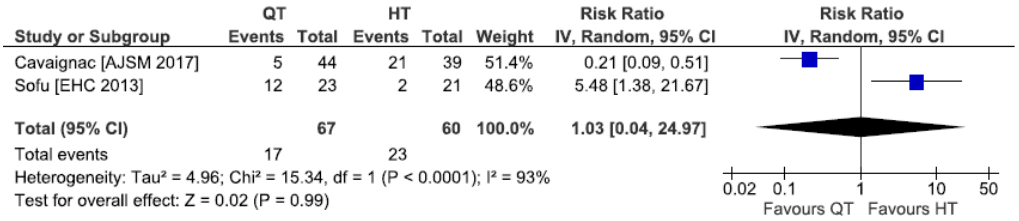


Forest plot showing Risk Ratio of Graft failure for the quadriceps tendon (QT) versus bone patellar tendon bone (BPTB) autograft

Figure A6



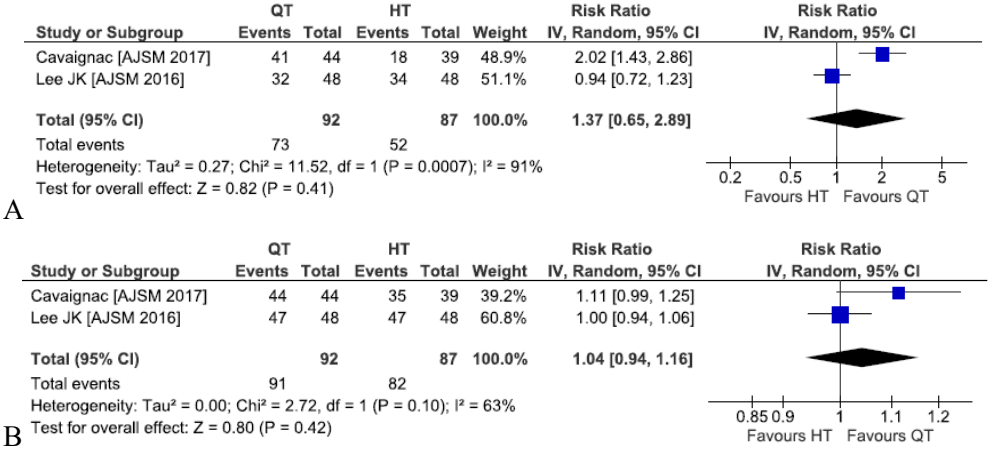
A



B

Forest plot showing KT arthrometer results. A) Mean Difference of side-to-side difference between the quadriceps tendon (QT) and hamstring (HT) autograft, B) Risk Ratio of side-to-side difference greater than 3 mm for the quadriceps tendon (QT) versus hamstring (HT) autograft.

Figure A7

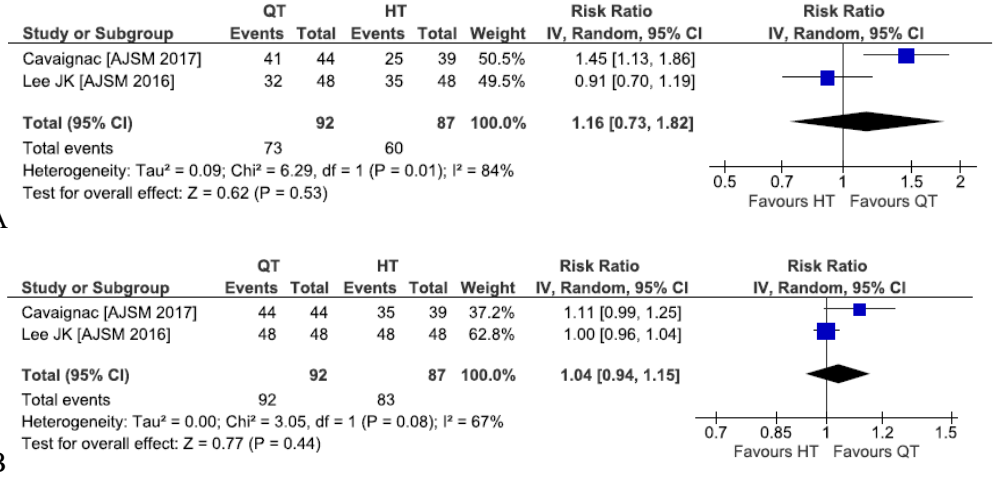


A

B

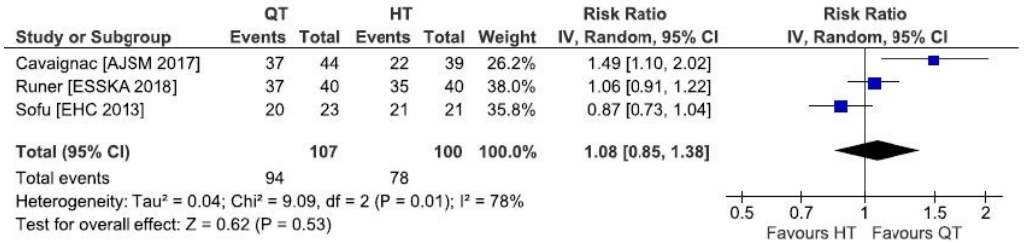
Forest plot showing Lachman results. A) Risk Ratio of Lachman test grade 0, B) Risk Ratio of Lachman test grade 0 or 1, for the quadriceps tendon (QT) versus hamstring (HT) autograft.

Figure A8

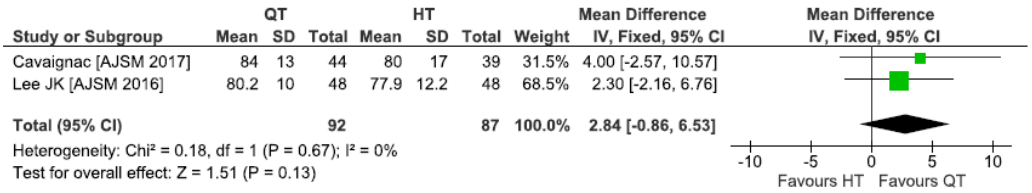


Forest plot showing Pivot shift test. A) Risk Ratio of Pivot shift test grade 0, B) Risk Ratio of Pivot shift test grade 0 or 1, for the quadriceps tendon (QT) versus hamstring (HT) autograft

Figure A9



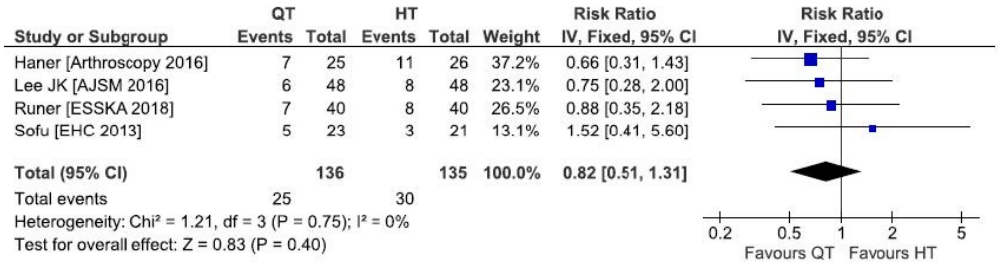
A



B

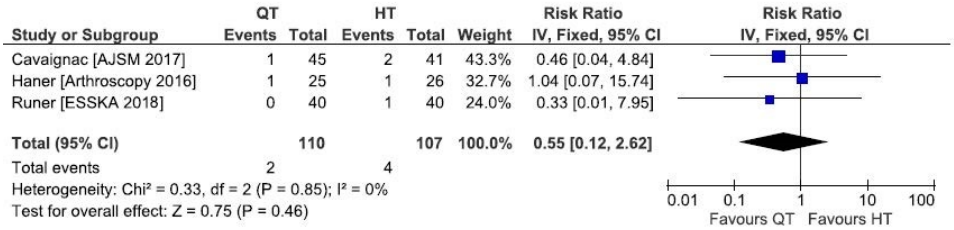
Forest plot showing functional results. A) Risk Ratio of Lysholm score > 84 for the quadriceps tendon (QT) versus hamstring (HT) autograft, B) Mean Difference of subjective International Knee Documentation Committee (IKDC) score between the quadriceps tendon (QT) and bone patellar tendon bone (BPTB) autograft

Figure A10



Forest plot showing Risk Ratio of the presence of Donor Site Pain for the quadriceps tendon (QT) versus hamstring (HT) autograft

Figure A11



Forest plot showing Risk Ratio of Graft failure for the quadriceps tendon (QT) versus hamstring (HT) autograft.