Supplement to

Comparison of the JOURNEY II bi-cruciate stabilised and GENESIS II total knee arthroplasty for functional ability and motor impairment: the CAPAbility randomised controlled trial

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Table S1. OKS-APQ, EQ5D-5L and UCLA from baseline to six months after surgery (primary timepoint)

		Means (SDs)		Between groups comparison							
	(nu	mber of particip	ants)		Two n	onths			Six m	onths	
		Two months	Six months	Unadjust	ted	Adjusted ^a		Unadjust	ted	Adjuste	d ^a
	Baseline	after surgery	after surgery	effect size	p-	effect size	p-	effect size	p-	effect size	p-
		unter surgery	micer surgery	(95% CI)	value	(95% CI)	value	(95% CI)	value	(95% CI)	value
OKS-APQ											
JII-BCS	2.81 (6.63)	36.09 (27.05)	70.83 (23.81)								
JII-DC5	(n=40)	(n=40)	(n=39)	11.63	0.09	12.09	0.08	3.66	0.52	3.31	0.56
Genesis II	1.41 (3.39)	47.34 (32.50)	74.14 (25.46)	(-1.87,25.14)	0.07	(-1.63,25.8)	0.00	(-7.53, 14.84)	0.52	(-8.05,14.67)	0.50
Genesis II	(n=40)	(n=40)	(n=40)								
EQ5D Utility											
JII-BCS	0.52 (0.16)	0.74 (0.10)	0.90 (0.12)								
JII Des	(n=40)	(n=40)	(n=39)	0.05 (-	0.11	0.05	0.05	0.00	0.89	0.00	0.95
Genesis II	0.47 (0.20)	0.78 (0.14)	0.89 (0.13)	0.01, 0.1)	0.11	(0.00, 0.11)	0.03	(-0.06, 0.05)	0.67	(-0.06, 0.05)	0.75
Genesis II	(n=40)	(n=40)	(n=40)								
EQ5D VAS											
JII-BCS	59.78 (17.70)	77.85 (14.12)	89.03 (9.44)								
JII-DC3	(n=40)	(n=40)	(n=39)	0.65	0.85	2.89	0.40	-1.71	0.50	-1.04	0.70
Genesis II	51.30 (17.71)	78.25 (16.11)	87.55 (12.75)	(-6.18, 7.48)	0.65	(-3.92, 9.70)	0.40	(-6.77, 3.35)	0.50	(-6.32,4.23)	0.70
Genesis II	(n=40)	(n=40	(n=40)								
UCLA											
JII-BCS	1.10 (0.78)	4.82 (1.62) ^b	6.87 (1.38)								
JII-DC3	(n=40)	(n=40)	N=38)	0.23	0.52	0.25	0.40	-0.13 (-	0.67	0.08 (-	0.70
Comosia II	3.00 (0.85)	5.05 (1.60) ^b	6.68 (1.44)	(-0.5, 0.95)	0.53	(-0.48, 0.98)	0.49	0.74,0.48)	0.67	0.69,0.53)	0.79
Genesis II	(n=40)	(n=40)	(n=40)								
a adjusted for stra	ata used in randoi	misation and for l	baseline scores. b	median (IOR)							

adjusted for strata used in randomisation and for baseline scores, be median (IQR)

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Table S2. Walking functional ability from baseline to six months post-surgery (primary timepoint)

		Means (SDs)			Between groups comparison							
	(nui	(number of participants)			Two months				Six months			
		Two months	Six months	Unadjus	ted	Adjuste	d ^a	Unadjus	ted	Adjust	Adjusteda	
	Baseline	after surgery	after surgery	effect size (95% CI)	p- value	effect size (95% CI)	p- value	effect size (95% CI)	p- value	effect size (95% CI)	p-value	
Walking funct	ion											
Timed Up & C	Go Test (secs)											
JII-BCS	11.34 (3.40) (n=40)	11.89 (3.92) (n=37)	10.30 (2.90) (n=35)	1.61	0.04	-1.32	0.02	-0.62	0.24	-0.37	0.40	
Genesis II	11.04 (3.33) (n=40)	10.42 (2.45) (n=37)	9.76 (2.36) (n=34)	(-3.11,-0.1)	0.04	(-2.48,-0.16)	0.03	(-1.91,0.66)	0.34	(-1.25,0.50)	0.40	
6-minute walk	test (metres)											
JII-BCS	304.03 (79.95) (n=40)	272.20 (71.51) (n=39)	343.41 (73.44) (n=35)	30.12	0.06	32.2	0.02	22.24	0.17	20.19	0.07	
Genesis II	299.09 (85.69) (n=40)	298.87 (65.23) (n=37)	363.39 (58.85) (n=34)	(-1.16,61.39	0.06	(5.74,58.65)	0.02	(-9.72,54.2)	0.17	(-1.60,41.98)	0.07	

^a adjusted for strata used in randomisation and for baseline scores.

Timed Up and Go Test – seconds to rise from chair, walk 3m and return to sitting; mean of three trials. A lower value indicates better function.

Six-minute walk test - metres walked in six minutes around a 20-metre circuit. A higher value indicates greater function.

Table S3. Balance functional ability, Star Excursion Test, from baseline to six months post-surgery (primary timepoint)

		Means (SDs)	
	(nui	mber of participa	ints)
	Baseline	Two months	Six months
	Dascille	after surgery	after surgery
Anterior reach	(cm)– non-opera	ated leg	
JII-BCS	40.98 (7.69)	43.20 (8.11)	43.09 (7.58)
JII-DC5	(n=37)	(n-33)	(n=31)
Genesis II	40.54 (6.12)	41.87 (6.18)	42.16 (9.37)
	(n=36)	(n=34)	(n=32)
Anterior reach	(cm) – operated	l leg	
JII-BCS	41.83 (6.85)	36.84 (7.45)	44.98 (21.54)
JII-DC3	(n=34)	(n=32)	(n=30)
Genesis II	37.72 (7.41)	35.92 (6.94)	40.00 (7.47)
Geliesis II	(n=36)	(n=35)	(n=32)
Postero-media	l reach (cm) – no	n-operated leg	
JII-BCS	63.79 (10.87)	65.10 (13.59)	67.74 (14.59)
JII-DCS	(n=36)	(n=33)	(n=31)
Genesis II	63.57 (9.81)	65.11 (10.78)	66.44 (16.73)
Geliesis II	(n=34)	(n=34)	(n=32)
Postero-media	l reach (cm) – op	erated leg	
JII-BCS	64.18 (11.69)	62.44 (12.74)	66.10 (14.10)
JII-DC3	(n=34)	(n-32)	(n=31)
Genesis II	59.32 (10.23)	59.57 (8.87)	65.59 (11.43)
Geliesis II	(n=36)	(n=34)	(n=32)
Postero-lateral	reach (cm) – noi	n-operated leg	
JII-BCS	60.10 (11.77)	62.03 (15.15)	63.21 (14.49)
JII-DC3	(n=34)	(n=31)	(n=29)
Genesis II	59.86 (11.45)	62.16 (11.73)	62.81 (16.63)
Geliesis II	(n=32)	(n=32)	(n=30)
Postero-lateral	reach (cm) – ope	erated leg	
JII-BCS	58.73 (11.01)	57.78 (14.08)	62.83 (14.86)
JII-BCS	(n=32)	(n=29)	(n=30)
Genesis II	55.39 (10.78)	55.19 (8.02)	60.19 (12.70)
Geliesis II	(n=33)	(n=31)	(n=30)

^a adjusted for strata used in randomisation and for baseline scores.

No statistical analysis as insufficient number of participants could undertake the Star Excursion Test.

		Means (SDs)			Between groups comparison							
	(nu	ımber of particip	ants)		Two n	nonths			Six months			
		T		Unadjus	ted	Adjuste	da	Unadjus	Unadjusted		Adjusteda	
	Baseline	Two months after surgery	Six months after surgery	effect size	p-	effect size	p-	effect size	p-	effect size	p-	
		urter surgery	unter surgery	(95% CI)	value	(95% CI)	value	(95% CI)	value	(95% CI)	value	
Double stance	support (% gai	t cycle)										
JII-BCS	0.30 (0.07) (n=39)	0.32 (0.11) (n=37)	0.25 (0.08) (n=35)	-0.02	0.22	-0.03	0.07	-0.01	0.60	0.00	0.60	
Genesis II	0.32 (0.09) (n=40)	0.30 (0.07) (n=37)	0.25 (0.05) (n=34)	(-0.06,0.02)	0.33	(-0.07,0.00)	0.07	(-0.04,0.02)	0.60	(-0.02,0.02)	0.69	

^a adjusted for strata used in randomisation and for baseline scores.

Double stance support (% of gait cycle). A lower value indicates better performance

			in Dascinie to	Between groups comparison							
	(nui	nber of participa	ints)		Two r	nonths			Six r	nonths	
		Two months	Cir months	Unadjust	ed	Adjusted	a	Unadjust	ted	Adjust	ed ^a
	Baseline	after surgery	Six months after surgery	effect size	p-	effect size	p-	effect size	p-	effect size	p-value
		anter surgery	anter surgery	(95% CI)	value	(95% CI)	value	(95% CI)	value	(95% CI)	p-value
During walking	g										
Hip ROM (deg	rees)										
JII-BCS	40.00 (6.04)	38.90 (5.44)	41.56 (6.01)								
JH Bes	(n=39)	(n=38)	(n=35)	2.24	0.11	1.93	0.07	3.01	0.04	1.64	0.07
Genesis II	40.31 (5.93)	41.03 (6.15)	44.44 (5.48)	(-0.48, 4.95)	0.11	(-0.20, 4.06)	0.07	(0.20, 5.82)	0.04	(-0.11, 3.39)	0.07
Geliesis II	(n=40)	(n=37)	(n=34)								
Ankle ROM (d	egrees)										
JII-BCS	24.84 (6.57)	21.69 (4.54)	24.54 (6.63)								
JII-DC3	(n=39)	(n=38)	(n=35)	0.75	0.45	1.36	0.09	-1.37	0.31	0.08	0.94
Genesis II	23.10 (5.52)	22.43 (3.76)	23.22 (3.77)	(-1.21, 2.71)	0.43	(0.22, 2.94)	0.09	(-4.01, 1.28)	0.51	(-1.89, 2.04)	0.54
Geliesis II	(n=40)	(n=37)	(n=34)								
Knee peak exte	ension moment (N	Nm/Kg)									
JII-BCS	-0.34 (0.09)	-0.30 (0.10)	-0.41 (0.08)								
JII-DCS	(n=37)	(n=38)	(n=34)	-0.03	0.16	-0.03	0.22	-0.02	0.45	-0.02	0.35
Carracia II	-0.32 (0.08)	-0.33 (0.10)	-0.42 (0.08)	(-0.08, 0.01)	0.10	(-0.07, 0.02)	0.22	(-0.05, 0.02)	0.43	(-0.05, 0.02)	0.33
Genesis II	(n=40)	(n=37)	(n=34)								
Knee peak flex	ion moment (Nm	/Kg)									
III DCC	0.52 (0.25)	0.38 (0.22	0.55 (0.27)								
JII-BCS	(n=37)	(n=38)	(n=34)	-0.06	0.22	-0.06	0.26	0.11	0.10	-0.07	0.22
Carracia II	0.44 (0.21)	0.34 (0.21)	0.45 (0.25)	(-0.16, 0.04)	0.22	(-0.15, 0.04)	0.26	(-0.23, 0.02)	0.10	(-0.19, 0.05)	0.22
Genesis II	(n=40)	(n=37)	(n=34)								
During steppin	g onto a stair										
Peak knee angi	ular velocity (deg	grees/sec)									
JII-BCS	221.70 (88.35)	198.09 (62.56)	271.84 (95.48)								
JII-BCS	(n=37)	(n=34)	(n=32)	54.31	0.01	51.63	0.01	50.01	0.02	35.15	0.07
С . п	243.74 (84.05)	251.04 (87.88)	318.82 (71.32)	(16.67,91.96)	0.01	(15.36,87.89)	0.01	(5.97,94.04)	0.03	(-3.09,73.39)	0.07
Genesis II	(n=38)	(n=34)	(n=30)	,		, ,		,		, ,	

^a adjusted for strata used in randomisation and for baseline scores. Higher values for measures indicate better movement.

	Means (SDs)				Between groups comparison							
	(nui	nber of participa	ants)		Two r	nonths			Six r	nonths		
		Two months	Six months	Unadjust	ted	Adjuste	d ^a	Unadjust	ed	Adjust	ed ^a	
	Baseline	after surgery	after surgery	effect size (95% CI)	p- value	effect size (95% CI)	p- value	effect size (95% CI)	p- value	effect size (95% CI)	p-value	
Peak activation	ı Vastus Mediali	s (% gait cycle)										
JII-BCS	28.62 (27.23)	25.42 (24.93	23.20 (22.72)									
JII-BCS	n=39	n=38	n=35	-1.22	0.82	-1.13	0.84	1.86	0.74	1.4	0.80	
Genesis II	30.10 (27.73)	23.18 (22.66)	24.64 (24.94)	(-12.1, 9.65)	0.82	(-11.98,9.72)	0.64	(-9.45,13.16)	0.74	(-9.43,12.22)	0.80	
Genesis II	n=40	n=38	n=33									
Peak activation	n Vastus Laterali	s (% gait cycle)										
JII-BCS	18.44 (12.15)	17.29 (11.51)	13.03 (5.61)									
JII-DC3	n=39	n=38	n=35	1.20	0.73	1.11	0.75	5.59	0.12	5.63	0.13	
Genesis II	20.23 (20.35)	18.47 (17.46)	18.79 (19.89)	(-5.67, 8.07)	0.73	(-5.78,8.01)	0.73	(-1.52,12.71)	0.12	(-1.65, 12.9)	0.13	
Genesis II	n=40	n=38	n=33									
Peak activation	n Tibialis Anterio	or (% gait cycle)										
JII-BCS	23.46 (24.74)	18.97 (20.91)	15.20 (14.27)									
JII-DC5	n=39	n=38	n=35	0.47	0.92	0.54	0.91	4.68	0.28	6.06	0.14	
Genesis II	28.88 (27.88)	19.82 (20.76)	19.61 (20.32)	(-9.18,10.13)	0.72	(-9.21,10.28)	0.71	(-3.92,13.28)	0.20	(-2.14, 14.26)	0.14	
	n=40	n=38	n=33									
Peak activation	n Biceps Femoris											
JII-BCS	25.03 (25.32)	21.87 (21.34)	35.77 (34.01)									
JII-DC5	n=39	n=38	n=35	6.76	0.28	5.71	0.35	-9.78	0.21	-10.97	0.17	
Genesis II	29.98 (28.00)	29.16 (31.55)	25.30 (28.86)	(-5.49,19.01)	0.20	(-6.42, 17.84)	0.55	(-25.33, 5.76)	0.21	(-26.69, 4.74)	0.17	
	n=40	n=38	n=33									
Peak activation	n Lateral head of		(% gait cycle)									
JII-BCS	24.67 (17.24)	23.87 (19.34)	20.66 (15.99)									
JII Des	n=39	n=38	n=35	-1.18	0.76	-1.01	0.79	-1.84	0.59	-1.89	0.59	
Genesis II	25.23 (22.36)	23.39 (14.60)	20.00 (13.80)	(-8.9,6.53)	0.70	(-8.55,6.52)	0.77	(-8.61,4.93)	0.57	(-8.79,5.01)	0.57	
Genesis II	n=40	n=38	n=33									

^a adjusted for strata used in randomisation and for baseline scores

Table S7. Balance parameters from baseline to six months post-surgery (primary timepoint)

	Means (SDs)				Between groups comparison							
	(nu	mber of participa	nts)		Two months					Six months		
		Two months	Cir months	Unadjuste	ed	Adjusted	a	Unadjuste	d	Adjusted	ı	
	Baseline	Two months after surgery	Six months after surgery	effect size (95% CI)	p- value	effect size (95% CI)	p- value	effect size (95% CI)	p- value	effect size (95% CI)	p- value	
Can stand	l for 10 secs only or	operated leg, eye	s open (number)									
JII-BCS	13/40 (32.5%)	13/39 (33.3%)	15/35 (42.9%)	0.92		1.17		0.56		0.62		
Genesis	10/40 (25.0%)	11/37 (29.7%)	10/34 (29.4%)	(0.34,2.49)	0.88	(0.34,4.07)	0.80	(0.20,1.51)	0.249		0.47	
II	10/40 (23.0%)			(0.34,2.49)		(0.34,4.07)		(0.20,1.31)		(0.17, 2.28)		
Seconds st	tanding only on ope	erated leg, eyes op	en (secs)									
ЛІ-ВСS	205.04 (176.11)	215.39 (99.27)	235.48 (176.94)									
JII-DCS	(n=38)	(n=39)	(n=35)	7.00	0.80	23.72	0.18	82.42	0.01	-59.91	0.01	
Genesis	188.25 (125.93)	226.09 (137.15)	158.14 (65.40)	(-48.53,62.53)	0.80	(-10.93,58.37)	0.18	(-147.17,-17.67)	0.01	(-105.98,-13.85)	0.01	
II	(n=40)	(n=36)	(n=34)									
COP path	length standing or	both legs, eyes cl	osed (mm)									
JII-BCS	205.04 (176.11)	215.39 (99.27)	235.48 (176.94)									
JII-DCS	(n=38)	(n=39)	(n=35)	7.00	0.80	23.72	0.18	82.42	0.01	-59.91	0.01	
Genesis	188.25 (125.93)	226.09 (137.15)	158.14 (65.40)	(-48.53,62.53)	0.80	(-10.93,58.37)	0.18	(-147.17,-17.67)	0.01	(-105.98,-13.85)	0.01	
II	(n=40)	(n=36)	(n=34)									

^a adjusted for strata used in randomisation and for baseline scores

Resultant centre of pressure path length (COP cm) in double stance with eyes closed: lower path length indicates better balance ability.

Table S8. Non-operated leg cadence (steps/minute), step length and stride length from baseline to six months post-surgery (primary timepoint)

	Means (SDs)						
		(number of partic	cipants)				
	Baseline	Two months after surgery	Six months after surgery				
Cadence							
	107.37	103.09 (13.21)	113.09 (9.51)				
JII-BCS	(10.62)	N=37	N=35				
	N=39						
С	102.7(10.8	105.25(10.21)					
Genesis II	3) n=40	n=37	112.98(9.71) n=34				
Step length							
JII-BCS	0.53(0.08)						
JII-DCS	n=39	0.5(0.09) n=37	0.56(0.1) n=35				
Genesis II	0.54(0.09)						
Genesis II	n=40	0.55(0.08) n=37	0.6(0.08) n=34				
Stride length							
JII-BCS	1.06(0.17)						
AII-DCD	n=39	1.04(0.18) n=37	1.15(0.21) n=35				
Genesis II	1.08(0.17)						
Genesis II	n=40	1.11(0.15) n=37	1.2(0.16) n=34				

Cadence (Steps/min), step length (m), and stride length (m)of non operative limb

Table S9. Post-operative clinical context: days of in-patient stay and consequences of surgery

	JII-BCS	Genesis II	Effect size	p-value
	Number (%)	Number (%)	(95% CI)	
Length of in-				
patient stay				
Three days	14 (35%)	13 (33%)		
Four days	21 (53%)	21 (53%)		
Five days	4 (10%)	5 (13%)	NA	0.749ª
Six days	1 (3%)	1 (3%)	NA	0.749
Median	4.00	4.00		
(IQR)	(3.00, 4.00)	(3.00, 4.00)		
Revision surgery				
for implant				
related problems*				
No	40 (100%)	40 (100%)	NIA	NIA
Yes	0	0	NA	NA
Complications				
No	34 (85%)	35 (88%)	1.00	0.780
Yes	6 (15%)	5 (13%)	0.83 (0.23,3.01)	0.780
Change pain				
medication				
No	1 (3%)	4 (10%)	7 50/ (19 0 2 0)	0.359ª
Yes	39 (98%)	36 (90%)	-7.5% (-18.0,3.0)	0.339

NA = not appropriate; ^a Fisher exact test.

Length of stay, complications, revision for implant related problems and change in pain medication

^{*}One patient in the JII-BCS had a revision of the polyethylene component for possible infection which was never diagnosed. As this is not implant related it is not included in the table.

Table S10. Composition of out-patient physiotherapy treatment received following TKR by JII-BCS and Genesis II groups.

JII-DCS	and Genesis if groups.		
		Number of se	ssions where
		exercises were	e performed:
		median	(IQR)
		JII-BCS	Genesis II
		(n=40)	(n=40)
In-pati	ient sessions (JII-BCS n=27, Genesis II n=26)		
	Gait re-education	2.0 (2.0, 3.0)	2.0 (2.0, 3.0)
	Step exercise	1.0 (1.0, 1.0)	1.0 (1.0,2.0)
	Knee ROM flexion exercise	2.0 (2.0, 3.0)	2.0 (2.0, 3.0)
	Static quadriceps exercise	2.0 (2.0, 3.0)	2.0 (2.0, 3.0)
	Inner range quadriceps exercise	1.0 (0.0, 1.0)	1.0 (0.0, 2.0)
	Straight leg raise exercise	0.0 (1.0, 1.0)	0.0 (1.0, 1.0)
	Knee extension strengthening exercise in	1.0 (0.0, 1.0)	1.0 (0.0, 2.0)
	sitting		
	Ice treatment	1.0 (0.0, 2.0)	1.0 (0.0, 2.0)
	Advice and education	3.0 (2.0, 3.0)	2.5 (2.0, 3.0)
	Other body region rehabilitation exercises	3.0 (2.0, 3.0)	2.5 (2.0, 3.0)
Out-pa	atient settings (JII-BCS n=33, Genesis II		
n=35)			
	Other body region rehabilitation exercises	1.0 (1.0, 5.0)	1.0 (1.0, 5.0)
	Seat pedal exercises	0.0(0.0, 1.0)	0.0 (0.0, 1.0)
	Static bike exercises	1.0 (0.0, 3.0)	1.0 (0.0, 5.0)
	Cross-trainer exercises	0.0(0.0, 4.0)	1.0 (0.0, 5.0)
	Calf stretch exercises	0.0(0.0, 4.0)	1.0 (0.0, 5.0)
	Gait re-education	1.0 (1.0, 2.0)	1.0 (1.0, 5.0)
	Stair practice	1.0 (0.0, 1.0)	1.0 (0.0, 1.0)
	Step exercise	1.0 (0.0, 4.0)	1.0 (1.0, 5.0)
	Sit to stand exercise (without arms of chair)	1.0 (0.0, 4.0)	1.0 (0.0, 5.0)
	Sit to stand exercise (with arms of chair)	0.0(0.0, 0.0)	0.0(0.0, 0.0)
	Knee ROM flexion (sat in chair)	1.0 (1.0, 5.0)	1.0 (1.0, 5.0)
	Knee strengthening extension exercise with	0.0(0.0, 5.0)	1.0 (1.0, 5.0)
	resistance band		
	Static quadriceps exercise	1.0 (1.0, 1.0)	1.0 (1.0, 4.0)
	Straight leg raise exercise	1.0 (1.0, 1.0)	1.0 (1.0, 3.0)
	Inner range quadriceps exercise	1.0 (1.0, 3.0)	1.0 (1.0, 3.0)
	Proprioceptive exercises in standing	0.0(0.0, 5.0)	1.0 (1.0, 5.0)
	Proprioceptive exercises in standing (with	0.0(0.0, 0.0)	0.0(0.0, 0.0)
	support)		
	Proprioceptive exercises in standing (with	0.0(0.0, 0.0)	0.0(0.0, 1.0)
	eyes shut)		
	Advice and education	0.0 (0.0, 1.0)	0.0 (0.0, 1.0)
	Glutei strengthening exercise	0.0 (0.0, 1.0)	0.0 (0.0, 1.0)

Table S11. Complications and adverse events

Complication type	Numbers of	participants
	JII-BCS	Genesis II
Post operative reaction to analgesia		1
requiring admission		
Pulmonary embolus	1	1
Wound haematoma / swelling	2	4
Postoperative bleeding requiring blood		
transfusion		1
Iliotibial tract discomfort		1
Chest infection	1	1
Urinary tract infection		1
Debridement and implant retention (DAIR)	1	