Appendix Table A1: The table shows the univariate analysis for independent predictor factors, none among those listed was found to be significant for ipsilateral ACL revision.

	Total	ACL	Survivorship free from surgery (%)							Hazard Ratio (HR)				
Variable	No.	Revisions	2- year	4- year	6- year	8- year	10-year	p-value	HR	95% CI		p-value		
All subjects	244	8 (3.3%)	98.8	98.0	98.0	97.1	96.3							
Sex								-						
Male	186	6 (3.2%)	98.4	97.8	97.3	97.3	96.6				Reference			
Female	58	2 (3.4%)	100	98.3	98.3	96.6	96.6	=0.9529	1.0	0.2 - 5.3		=0.9338		
Age								-						
≥18 years (old)	215	7 (3.2%)	99.1	98.1	97.7	97.2	96.3				Reference			
<18 years (young)	29	1 (3.4%)	96.6	96.6	96.6	96.6	96.6	=0.9655	1.0	0.1 - 8.8		=0.9564		
Preoperative Tegner								-						
<7 (low)	108	3 (2.8%)	99.1	98.1	98.1	97.2	97.2				Reference			
≥7 (high)	136	5 (3.7%)	98.5	97.8	97.8	97.1	95.8	=0.7693	1.3	0.3 - 5.2		=0.6966		
Age and Preoperative Tegner								-						
≥18 years (old), <7 (low)	97	3 (3.1%)	99.0	97.9	97.9	96.9	96.9				Reference			
\geq 18 years (old), \geq 7 (high)	118	4 (3.3%)	99.2	98,3	98,3	97.5	95.9		1.1	0.2 - 4.7		=0.9414		
<18 years (young), <7 (low)	11	0 (0.0%)	100	100	100	100	100		1.2	0.1 - 21.2		=0.9573		
<18 years (young), ≥7 (high)	18	1 (5.6%)	100	94.4	94.4	94.4	94.4	=0.9832	1.7	0.1 - 26.7		=0.6417		
Acute Reconstruction (<3								-						
months)	102	7 (2.90/)	00.4	97.8	97.8	96.7	95.6				Reference			
No	183	7 (3.8%)	98.4					0.2000	0.4	0.1.2.0	Reference	0.4226		
Yes	61	1 (1.6%)	100	98.4	98.4	98.4	98.4	=0.3888	0.4	0.1 - 2.0		=0.4236		
Overweight (BMI ≥25)								-						
No	168	6 (3.6%)	98.8	98.2	98.2	97.0	95.8				Reference			
Yes	76	2 (2.6%)	98.7	97.4	97.4	97.4	97.4	=0.7041	0.7	0.2 - 3.3		=0.7043		
Smoke								-						
No	169	5 (3.0%)	99.4	98.2	98.2	97.6	96.5	=0.6643			Reference			
Yes	75	3 (4.0%)	97.3	97.3	97.3	96.0	96.0		1.4	0.3 - 6.2		=0.6740		

Appendix Table A2: The table shows the univariate analysis for independent predictor factors, Age at surgery <18 and high activity level (Tegner \ge 7) were found to be significant for contralateral ACL failure; the combination of these two factors had the higher hazard ratio.

	Total	Contralateral		Sur	vivorship fr	Hazard Ratio (HR)					
Variable	No.	Ruptures	2-year	4-year	6-year	8-year	10-year	p-value	HR	95% CI	p-value
All subjects	244	19 (7.8%)	98.4	95.5	92.6	92.2	92.2				
Sex											
Male	186	17 (9.4%)	97.8	95.2	91.4	90.9	90.9			Reference	
Female	58	2 (3.5%)	100	96.6	96.6	96.6	96.6	=0.1660	0.4	0.1 - 1.6	=0.1831
Age											
≥18 years (old)	215	13 (6.1%)	99.1	97.2	94.4	94.0	94.0			Reference	
<18 years (young)	29	6 (20.7%)	93.1	82.8	79.3	79.3	79.3	=0.0029*	3.4	1.4 - 8.3	=0.0065*
Preoperative Tegner											
<7 (low)	108	1 (0.9%)	100	100	99.1	99.1	99.1			Reference	
≥7 (high)	136	18 (13.2%)	97.1	91.9	87.5	86.8	86.8	=0.0004*	15.2	6.1 - 37.5	=0.0091*
Age and Preoperative Tegner											
≥18 years (old), <7 (low)	97	1 (1.0%)	100	100	99.0	99.0	99.0		40.0	Reference	0.00.564
≥18 years (old), ≥7 (high)	118	12 (10.2%)	98.3	94.9	90.7	89.8	89.8		10.2	3.9 - 26.5	=0.0256*
<18 years (young), <7 (low)	11	0 (0.0%)	100	100	100	100	100		2.7	0.1 - 63.1	=0.5324
<18 years (young), ≥7 (high)	18	6 (33.3%)	88.9	72.2	66.7	66.7	66.7	=0.0001*	32.3	4.1 - 252.7	=0.0009*
Acute Reconstruction (<3 months)											
No	183	14 (7.6%)	100	96.2	92.9	92.3	92.3			Reference	
Yes	61	5 (8.2%)	98.4	93.4	91.8	91.8	91.8	=0.8736	1.1	0.4 - 2.8	=0.8902
Overweight (BMI ≥25)	1.60	15 (0.00()	07.6	04.0	01.1	01.1	01.1			D 6	
No	168	15 (8.9%)	97.6	94.0	91.1	91.1	91.1	0.2002	0.6	Reference	0.2226
Yes	76	4 (5.3%)	100	98.7	96.1	94.7	94.7	=0.3093	0.6	0.4 - 3.1	=0.3326

Smoke											
Smoke No	169	11 (6.5%)	98.2	95.9	93.5	93.5	93.5			Reference	
Yes	75	8 (10.7%)	98.7	94.7	90.7	89.3	89.3	=0.2723	1.6	0.7 - 3.9	=0.2653

Appendix Table A3: The table shows the univariate analysis for independent predictor factors, Age at surgery < 18 and high activity level (Tegner \ge 7) were found to be significant for a second ACL rupture; as for a contralateral injury the combination of these two factors had the higher hazard ratio.

Variable	Total	Second R	Runtures		ip free fron	n surgery (%		Haza	ard Ratio (HR)			
	No.	Second N	uptui 05	2-year	4-year	6-year	8-year	10-year	p-value	HR	95% CI	p-value
All subjects	244		26 (10.7%)	97.1	93.4	90.6	89.3	89.3				
Sex												
Male	186		22 (11.8%)	96.2	93.0	89.2	88.2	88.2			Reference	
Female	58	4 (6.9%)	,	100	94.2	94.2	93.1	93.1	=0.2892	0.6	0.2 - 1.6	p=0.3017
Age												
≥18 years (old)	215		19 (8.8%)	98.1	94.9	92.6	91.2	91.2			Reference	
<18 years (young)	29		7 (24.1%)	89.7	79.3	75.9	75.9	75.9	=0.0059*	2.7	1.2 - 5.9	p=0.0110*
Preoperative Tegner												
<7 (low)	108	4 (3.7)		99.1	98.1	97.2	96.3	96.3			Reference	
$\geq 7 \text{ (high)}$	136		22 (16.2%)	95.6	89.7	85.3	83.8	83.8	=0.0018*	4.7	2.2 - 10.1	=0.0052*
Age and Preoperative Tegner												
≥18 years (old), <7 (low)	97	4 (4.2%)	15 (10 00/)	99.0	97.9	96.9	95.9	95.9		2.2	Reference	0.0201#
≥18 years (old), ≥7 (high)	118	0 (00/)	15 (12.8%)	97.5	93.2	89.0 100	87.3	87.3		3.2 0.9	1.4 - 7.2	=0.0391*
<18 years (young), <7 (low)	11	0 (0%)		100	100 66.7	61.1	100 61.1	100 61.1	=0.0001*	0.9 12.7	0.1 - 15.8	=0.9469
<18 years (young), ≥7 (high)	18	7 (39%)		83.3	00.7	61.1	61.1	61.1	=0.0001*	12./	2.3 - 70.7	=0.0001*
Acute Reconstruction (<3 months)												
No	183		20 (10.1%)	96.7	94.0	90.7	89.1	89.1			Reference	
Yes	61	6 (9.8%)		98.4	91.8	90.2	90.2	90.2	=0.8217	0.9	0.4 - 2.2	=0.8113
Overweight (BMI ≥25)												
- , ,	168		20 (11 00/)	06.4	92.3	89.3	88.1	88.1			Reference	
No		(7.00/)	20 (11.9%)	96.4					0.2402	0.6		0.2554
Yes	76	6 (7.9%)		98.7	96.1	94.7	93.4	93.4	=0.3402	0.6	0.3 - 1.5	=0.3554

Smoke											
No	169	15 (8.8%)	97.6%	94.1%	92.7%	91.1%	91.1%			Reference	
Yes	75	11 (14.7%)	96.0%	92.0%	88.0%	85.3%	85.3%	=0.1823	1.7	0.8 - 3.4	p=0.1769