

Appendix

Table A1: Risk factor of failure including all associations of patellar height (PH) and J-sign

Risk factor	Comparison	Nfailure/Nsuccess vs. Nfailure/Nsuccess	OR (N= 211)	OR CI 95%	p-value
Associated risk factor J-sign and patellar height	PH ≥ 1.3 and JSIGN + vs PH < 1.3 and JSIGN -	4/9 vs. 3/128	18.9	[3.7 ; 109.7]	$<.01$
	PH ≥ 1.3 and JSIGN + vs PH ≥ 1.3 and JSIGN -	4/9 vs. 1/22	9.8	[1.2 ; 205.9]	$<.01$
	PH ≥ 1.3 and JSIGN + vs PH < 1.3 and JSIGN +	4/9 vs. 2/42	9.3	[1.6 ; 75.3]	$<.01$
	PH < 1.3 and JSIGN + vs PH < 1.3 and JSIGN -	2/42 vs. 3/128	2.0	[0.3 ; 1270]	$<.01$
	PH ≥ 1.3 and JSIGN - vs PH < 1.3 and JSIGN -	1/22 vs. 3/128	1.9	[0.1 ; 15.9]	$<.01$
	PH < 1.3 and JSIGN + vs PH ≥ 1.3 and JSIGN -	2/42 vs. 1/22	1.0	[0.1 ; 23.2]	$<.01$

Table A2: Comparison of patients' characteristics between the lost to follow up subgroup and the rest of the series

Variables		Rest of the series	Lost to follow up	p-value
Sex	Male	116 (55%)	19 (67.9%)	0.196
	Female	95 (45%)	9 (32.1%)	
Age at surgery (years)	Mean (standard deviation)	20.6 (6.9)	22.3 (6.6)	0.086
	Min ; Max	12 ; 48	14 ; 43	
BMI (kg/m ²)	Mean (standard deviation)	23.4 (3.7)	24.6 (3.9)	0.110
	Min ; Max	16.6 ; 39.1	18.8 ; 35.3	
Side	Right	95 (45%)	12 (43%)	0.829
	Left	116 (55%)	16 (57%)	
J Sign	Negative	154 (73%)	23 (82%)	0.299
	Positive	57 (27%)	5 (18%)	
Patellar height (Caton Deschamps index)	Mean (standard deviation)	1.2 (0.14)	1.12 (0.13)	0.145
	Min ; Max	1.0 ; 1.7	0.90 ; 1.37	
Class of patellar height	< 1.3	175 (83%)	24 (86%)	1.000
	>= 1.3	36 (17%)	4 (14%)	
Trochlear dysplasia	Normal	14 (7%)	3 (11%)	0.681
	Type A	100 (47%)	13 (46%)	
	Type B	53 (25%)	5 (18%)	
	Type C	31 (15%)	4 (14%)	
	Type D	13 (6%)	3 (11%)	
TT TG distance (mm)	Mean (standard deviation)	15.3 (4.9)	14.6 (5.2)	0.429
	Min ; Max	5 ; 30	9 ; 23	
Class of TT TG distance	< 20 mm	97 (80%)	8 (73%)	0.455
	>= 20 mm	24 (20%)	3 (27%)	
Patellar tilt (°)	Mean (standard deviation)	22.9 (6.9)	23.1 (9.0)	0.857
	Min ; Max	9 ; 47	10 ; 39	
Class of patellar tilt	< 20°	33 (27%)	4 (36%)	0.489
	>= 20°	88 (73%)	7 (64%)	
Preoperative Kujala score	Mean (standard deviation)	55.7 (12.5)	52.2 (12.2)	0.080
	Min ; Max	25 ; 97	37 ; 80	