

TABLE E-1 Nominal Graft Tensions (Posterior Cruciate Ligament Tensioned First)

Specimen	30°			90°		
	Initial Posterior Cruciate Ligament Tension (N)	Applied Anterior Cruciate Ligament Tension (N)	Final Posterior Cruciate Ligament Tension (N)	Initial Posterior Cruciate Ligament Tension (N)	Applied Anterior Cruciate Ligament Tension (N)	Final Posterior Cruciate Ligament Tension (N)
1	40	10	45	55	3	55
2	8	10	15	25	1	25
3	38	15	50	65	35	70
4	3	10	10	38	2	40
5	3	5	6	35	20	50
6	7	15	15	92	35	95
7	15	10	20	106	15	110
8	6	10	10	136	30	140
9	3	3	3	19	10	25
10	4	5	5	37	1	37
11	52	10	55	63	5	65
Mean	16.3	9.4	21.3	61.0	14.3	64.7
SD	18.0	3.8	19.2	36.8	13.7	36.8

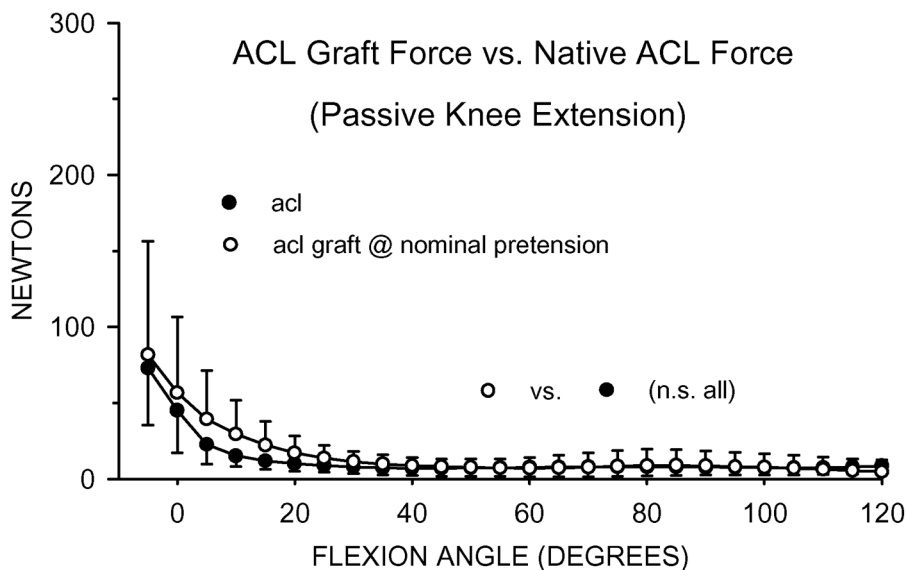


Figure E-1a

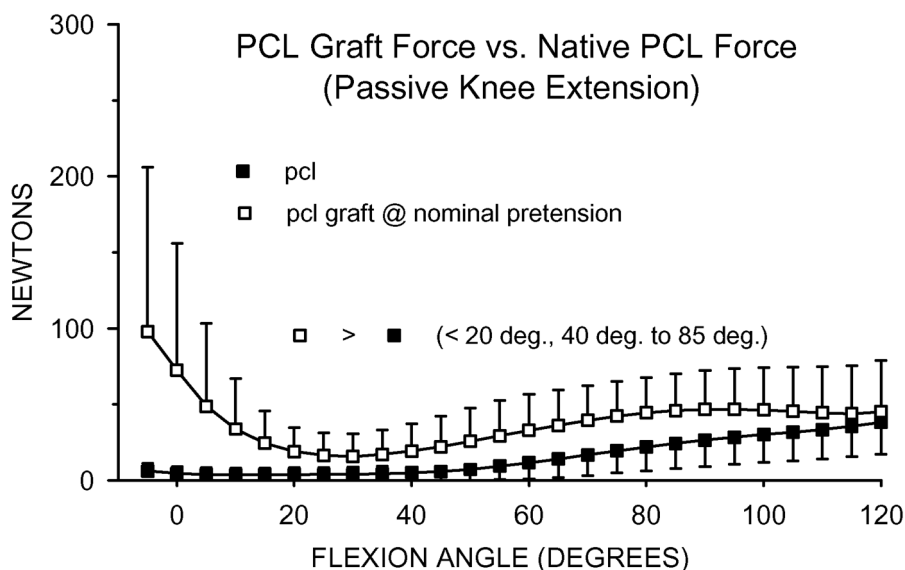


Figure E-1b

Figs. E-1 through E-4 Test curves of force versus knee flexion angle for cruciate grafts at nominal pretension versus the native cruciate ligaments. Mean curves are indicated by symbols at 5° increments for the native cruciate ligament versus the cruciate ligament reconstruction. Segments of the mean curves that are significantly different ($p < 0.05$) from each other are indicated. Mean curves that are not significantly different from each other over the entire flexion range are indicated by n.s. (not significant). **Figs. E-1A and E-1B** No tibial force.

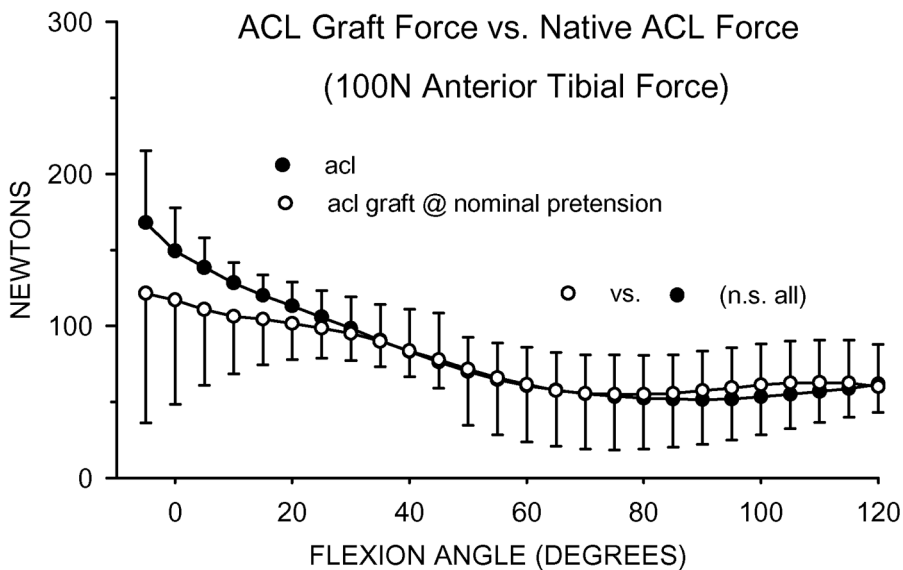


Figure E-2a

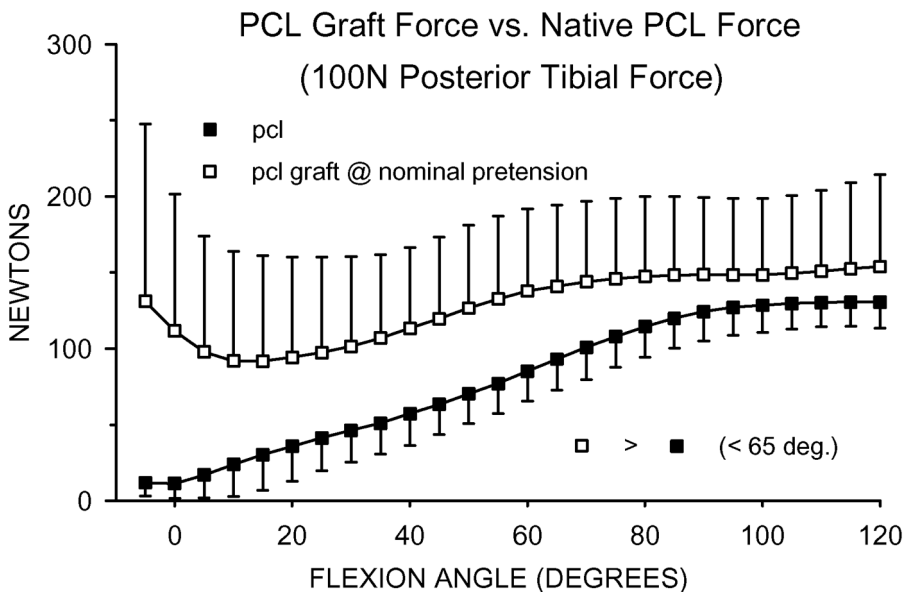


Figure E-2b

One hundred-newton anterior and posterior tibial force.

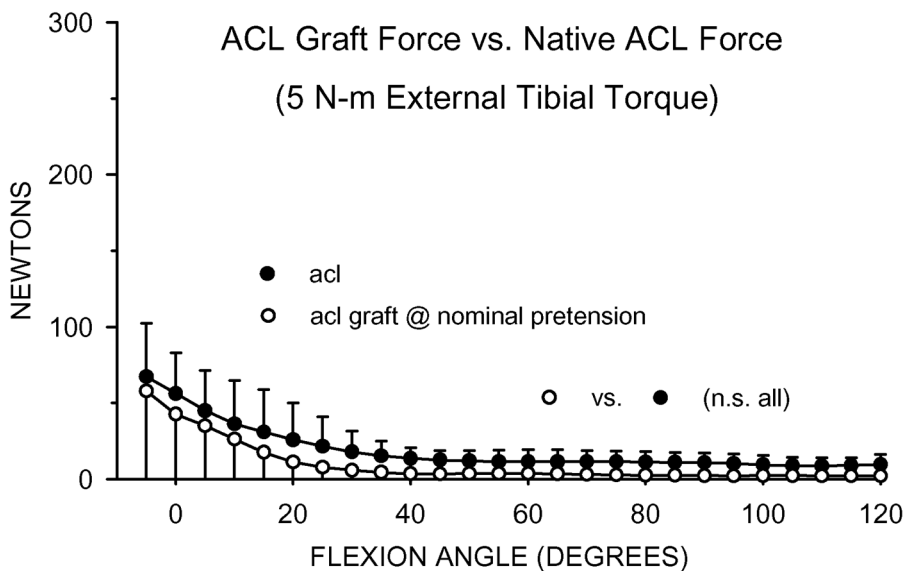


Figure E-3a

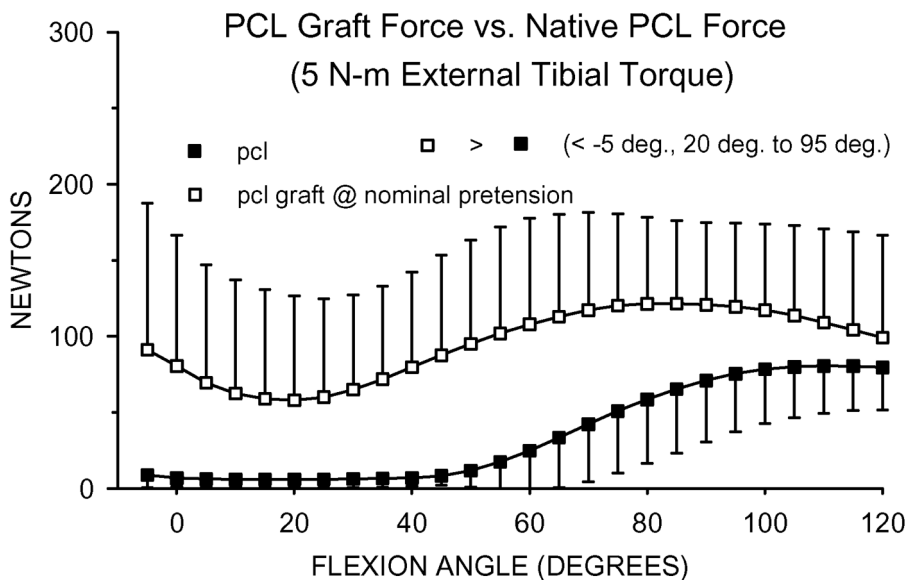


Figure E-3b

Five-newton-meter external tibial torque.

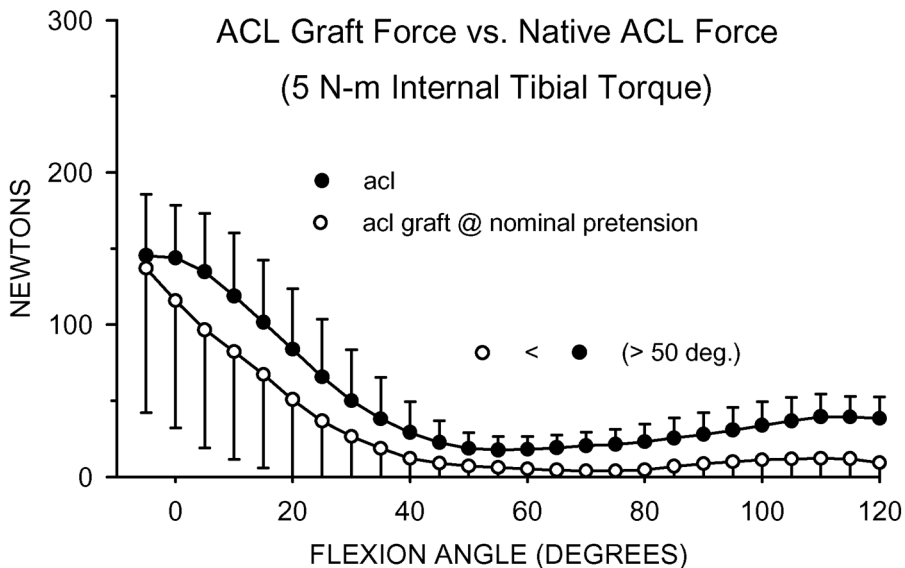


Figure E-4a

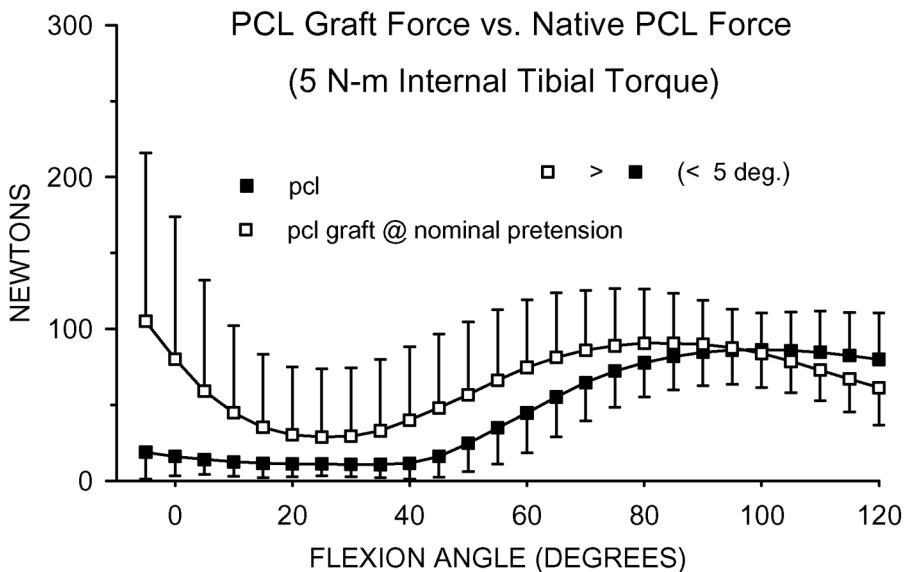


Figure E-4b

Five-newton-meter internal tibial torque.

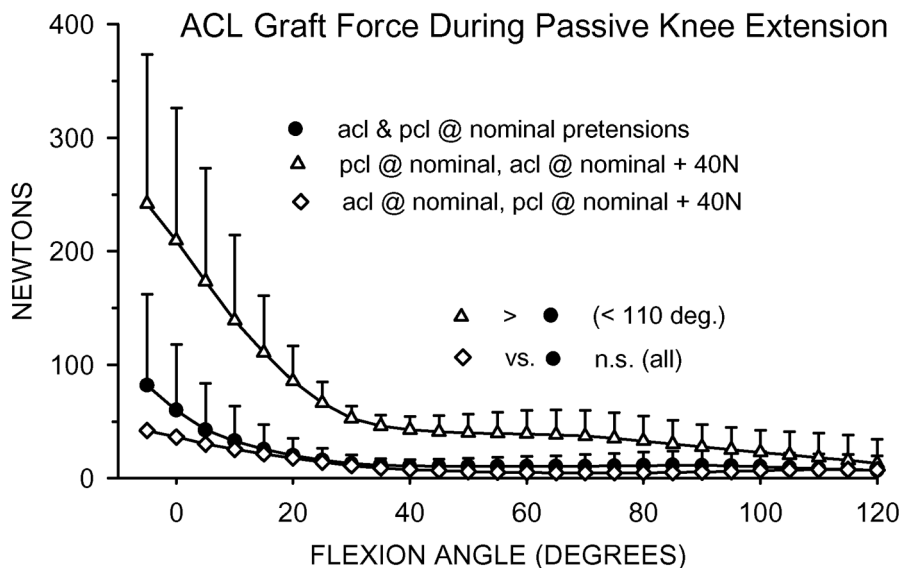


Figure E-5a

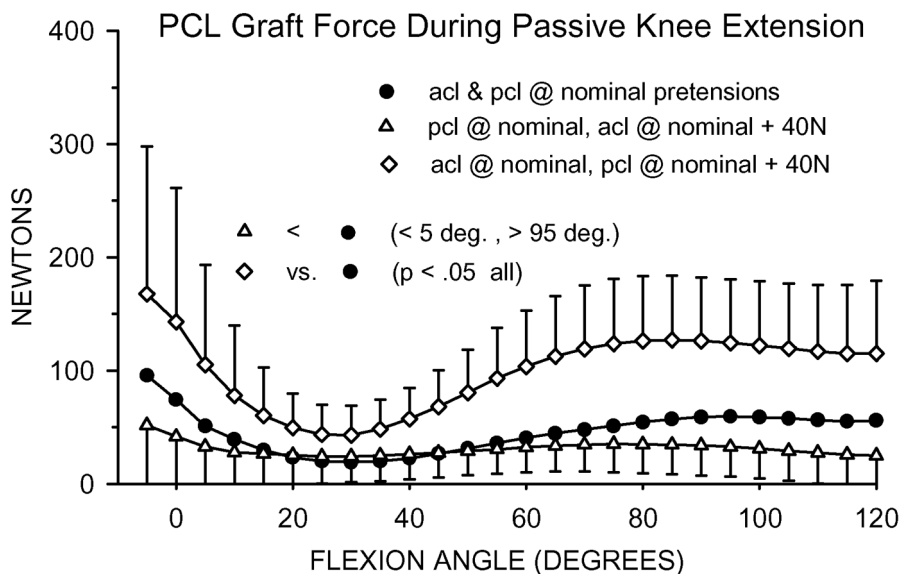


Figure E-5b

Test curves of force versus knee flexion angle for knees with both cruciate grafts at nominal pretension versus those with one graft at nominal tension and the opposing graft at 40N above nominal tension. Mean curves are indicated by symbols at 5° increments for the native cruciate ligament versus cruciate ligament reconstruction. Segments of the mean curves that are significantly different ($p < 0.05$) from each other are indicated. Mean curves that are not significantly different from each other over the entire flexion range are indicated by n.s. (not significant).