

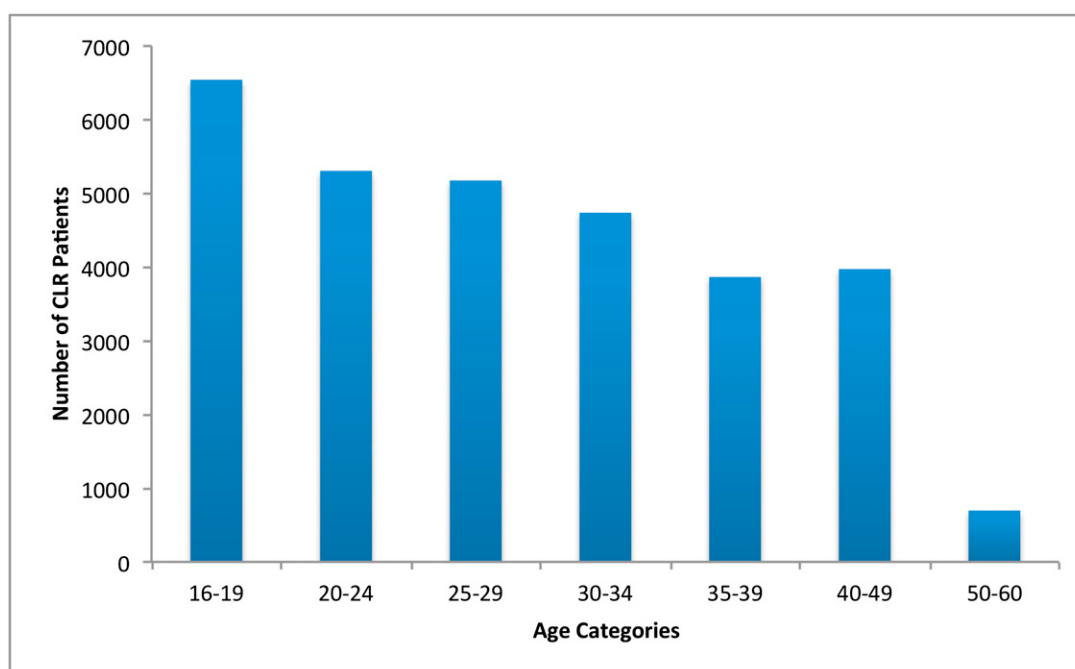


Fig. E-1
 A bar graph showing the age distribution of case cohort patients. The y axis depicts the number of case patients, and the x axis depicts each age category. The difference in the proportion of younger patients as compared with older patients was significant ($p < 0.001$). CLR= cruciate ligament reconstruction.

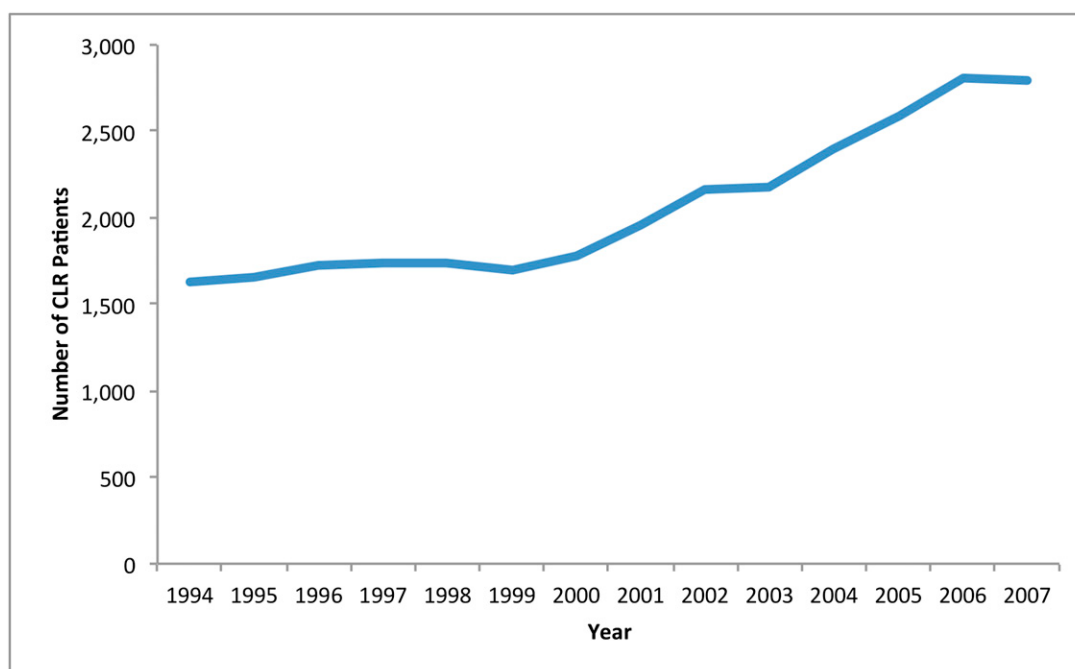


Fig. E-2
 A line graph showing the annual volume of cruciate ligament reconstruction (CLR) procedures performed in Ontario, Canada, during each non-fragmented study year (full calendar years from January 1 to December 31). The y axis depicts the number of case patients, and the x axis depicts each non-fragmented study year. The number of cruciate ligament reconstruction cases per year increased significantly from 1994 to 2007 ($p < 0.001$).

TABLE E-1 Cohort Development	
Variable	No. of Patients
Cohort size (pre-exclusion)	34,786
Exclusion criteria	
Age less than sixteen years	517
Age greater than sixty years	136
Non-Ontario resident	45
Revision cruciate ligament reconstruction (after 2003 only)	312
Nonelective cruciate ligament reconstruction	803
Duplicate cruciate ligament reconstruction OHIP billings	14
Cruciate ligament reconstruction prior to 1993	1054
Prior arthroplasty	122
Prior chondral surgery	853
Prior tibial and/or femoral osteotomy	370
Prior lower-extremity fracture	153
Missing demographic data	106
Cohort size (post-exclusion)	30,301

TABLE E-2 Administrative Codes

Variable Type	Item	Code*	Description
Index event	Cruciate ligament reconstruction	R599 (OHIP)	Simple cruciate ligament reconstruction
		R542 (OHIP)	Extensive cruciate ligament reconstruction
		R484 (OHIP)	Synthetic cruciate ligament reconstruction
		9345 (ICD-9)	Repair of cruciate ligaments
		1.VL.80.^^(ICD-10)	Repair of cruciate ligaments of knee
		1.VN.80.^^(ICD-10)	Repair of cruciate with collateral ligaments of knee
Exclusion criteria	Revision cruciate ligament reconstruction	E059 (OHIP)	Revision or repair following previous ligament reconstruction (R542)
		R539 (OHIP)	Removal of synthetic ligament graft
	Cruciate ligament reconstruction	R599 (OHIP)	Simple cruciate ligament reconstruction
		R542 (OHIP)	Extensive cruciate ligament reconstruction
		R484 (OHIP)	Synthetic cruciate ligament reconstruction
		R441 (OHIP)	Total knee arthroplasty
	Knee arthroplasty	R482 (OHIP)	Single-component unilateral knee arthroplasty
		R483 (OHIP)	Double-component unilateral knee arthroplasty
		R509 (OHIP)	Patellar arthroplasty
		R244 (OHIP)	Revision total knee arthroplasty
	Chondral surgery	R199 (OHIP)	Drilling of defect
		R203 (OHIP)	Pinning of osteochondral fragment
		R206 (OHIP)	Abrasion arthroplasty
		R413 (OHIP)	Osteochondritis dissecans with drilling and/or internal fixation
		F021 (OHIP)	Osteochondral fracture: open reduction
	Lower-extremity osteotomy	R215 (OHIP)	Osteotomy supracondylar
		R262 (OHIP)	Osteotomy femoral shaft
		R963 (OHIP)	Single-level correction: circular external fixation
		R964 (OHIP)	Double-level correction: circular external fixation
		R965 (OHIP)	Bone transport: circular external fixation (≤6 cm)
		R966 (OHIP)	Bone transport: circular external fixation (>6 cm)
		R289 (OHIP)	Osteotomy tibia and fibula
Exclusion criteria	Lower-extremity osteotomy	R971 (OHIP)	Single-level correction: circular external fixation
		R972 (OHIP)	Double-level correction: circular external fixation
		R973 (OHIP)	Bone transport: circular external fixation (≤6 cm)
		R974 (OHIP)	Bone transport: circular external fixation (>6 cm)
		R403 (OHIP)	Osteotomy repair recurrent dislocation (includes inspection of the joint)
		F081 (OHIP)	Open reduction of medial or lateral tibial plateau (tibial plateau fracture)
	Fracture requiring fixation	E532 (OHIP)	Open reduction of both tibial plateaus (same knee) (tibial plateau fracture)
		F087 (OHIP)	Open reduction or excision with or without repair (patellar fracture)
		F096 (OHIP)	Open reduction (femoral fracture)
		E048 (OHIP)	Intramedullary nail with distal and proximal locking screws (femoral shaft or supracondylar femoral fracture)

TABLE E-2 (continued)			
Variable Type	Item	Code*	Description
Main outcome	Primary knee arthroplasty	R441 (OHIP)	Total knee arthroplasty
		R482 (OHIP)	Single-component unilateral knee arthroplasty
		R483 (OHIP)	Double-component unilateral knee arthroplasty
Covariate	Meniscal debridement	R207 (OHIP)	Arthroscopic meniscectomy
		R192 (OHIP)	Trimming of plica, tissue, meniscus
		R429 (OHIP)	Open meniscectomy
	Meniscal repair	R508 (OHIP)	Suturing of medial or lateral meniscus
		R208 (OHIP)	Repair medial or lateral meniscus