

Appendix A1: Comparison of performance and demographic data for pitchers between cases and controls before surgery (cases) and index year (controls)

	Cases	Controls	p-value
Age	24.2 ± 3.7	24.3 ± 3.7	0.825
Years Professional	4.3 ± 3.4	4.2 ± 3.1	0.974
Throws Right Handed	41	39	0.642
Bats Right Handed	38	35	0.66
W-L%	0.47 ± 0.27	0.56 ± 0.17	0.062
Earned Run Average	3.8 ± 2.1	3.8 ± 1.8	0.469
Average Runs Allowed	4.6 ± 2.1	4.7 ± 2.9	0.501
WHIP	1.3 ± 0.34	1.3 ± 0.31	0.105
Hits per 9 innings	8.7 ± 2.3	8.7 ± 2.4	0.737
Home runs per 9 innings	0.5 ± 0.30	0.5 ± 0.34	0.281
Walks allowed per 9 innings	3.5 ± 1.6	3.1 ± 1.8	0.052
Strike Outs per 9 innings	8.1 ± 2.1	8.2 ± 1.6	0.906
Strike Outs per walk	3.2 ± 2.5	3.3 ± 1.3	0.057
Games per year	20.3 ± 9.2	21.7 ± 9.2	0.512
Games started per year	7.6 ± 8.5	8.2 ± 7.7	0.684
Games finished per year	5.3 ± 5.8	5.9 ± 6.2	0.748
Complete games per year	0.16 ± 0.27	0.16 ± 0.31	0.592
Shutouts per year	0.05 ± 0.14	0.05 ± 0.11	0.393
Saves per year	1.4 ± 2.2	1.5 ± 2.1	0.156
Innings pitched per year	59.9 ± 41.5	66.3 ± 38.4	0.452
Hits per year	58.5 ± 42.7	62.9 ± 37.4	0.726
Runs per year	28.8 ± 20.2	31.1 ± 18.8	0.615
Earned Runs per year	24.5 ± 18.5	26.2 ± 17.5	0.518
Home runs per year	4.2 ± 4.1	5.0 ± 4.7	0.637
Walks allowed per year	20.5 ± 14.4	20.5 ± 12.9	0.431
Intentional walks per year	0.57 ± 0.77	0.71 ± 0.74	0.397
Strikeouts per year	50.7 ± 32.2	59.4 ± 35.5	0.424
Hit Batters per year	3.2 ± 2.7	3.1 ± 1.8	0.498
Balks per year	0.53 ± 0.58	0.49 ± 0.63	0.769
Wild pitches per year	3.6 ± 2.1	4.3 ± 2.4	0.634
Batters faced per year	256 ± 176	280 ± 160	0.506
Wins above replacement (pitchers)	0.05 ± 3.6	0.12 ± 3.7	1

WHIP: (walks + hits)/innings pitched. W-L%: Win-Loss percentage. Data is presented as the average ± standard deviation.

Appendix A2: Comparison of performance and demographic data for batters between cases and controls before surgery (cases) and index year (controls).

Batting Specific Statistics:	Cases	Controls	p-value
Games per year	61.4 ± 50.5	69.4 ± 36.9	0.836
Plate appearances per year	237 ± 196	274 ± 146	0.836
At bats per year	206 ± 177	244 ± 128	0.836
Runs per year	26.2 ± 23	36.3 ± 18	0.628
Hits per year	51.9 ± 47.4	68.4 ± 33.4	0.836
Doubles per year	10.5 /- 9.1	15.3 ± 8.4	0.445
Triples per year	1.6 ± 1.6	1.2 ± 1.3	0.628
Home runs per year	4.1 ± 4.7	5.8 ± 4.3	0.534
Runs batted in per year	24.6 ± 22.1	34.8 ± 20.7	0.628
Stolen bases per year	4.2 ± 5.2	4.2 ± 5.1	1
Caught stealing per year	1.9 ± 2.7	1.9 ± 2.1	0.836
Walks per year	23.8 ± 18.6	21.3 ± 12.1	0.945
Strike outs per year	45.7 ± 37.5	42.5 ± 12.1	0.836
Total bases per year	77.8 ± 68.6	103.8 ± 54.5	0.836
Double play grounded into per year	3.9 ± 2.7	6.1 ± 3.1	0.366
Hit by pitch per year	3.6 ± 3.2	4.3 ± 3.1	0.628
Sacrifice hits per year	1.5 ± 2.9	2.2 ± 4.6	1
Sacrifice flies per year	1.7 ± 1.6	2.5 ± 2.1	0.445
Intentional walks per year	0.59 ± 0.67	1.00 ± 0.84	0.366
Hits/at bats	0.23 ± 0.03	0.29 ± 0.04	0.035
On base percentage	0.33 ± 0.04	0.35 ± 0.03	0.731
Slugging percentage	0.34 ± 0.08	0.42 ± 0.07	0.101
On base + slugging percentage	0.67 ± 0.11	0.77 ± 0.09	0.138
Wins above replacement (batters)	0.012 ± 0.19	-0.003 ± 0.16	0.423

Data are presented as the average ± standard deviation

Appendix A3: Comparison of performance and demographic data for batters between cases and controls after surgery (cases) and index year (controls).

	Cases	Controls	p-value
Games per year	65.8 ± 32.6	76.8 ± 26.9	0.524
Plate appearances per year	231 ± 122	299 ± 120	0.435
At bats per year	209 ± 111	263 ± 104	0.435
Runs per year	22.9 ± 16.9	35.4 ± 16.2	0.354
Hits per year	52.4 ± 32.4	68.5 ± 31.2	0.435
Doubles per year	10.2 ± 6.2	14.6 ± 7.8	0.171
Triples per year	1.3 ± 1.7	1.0 ± 1.2	0.943
Home runs per year	3.0 ± 2.8	4.5 ± 4.4	0.524
Runs batted in per year	22.1 ± 17.0	32.6 ± 17.0	0.354
Stolen bases per year	4.9 ± 6.3	3.1 ± 3.5	0.622
Caught stealing per year	3.0 ± 3.3	1.9 ± 1.7	0.724
Walks per year	17.05 ± 13.1	28.1 ± 17.5	0.222
Strike outs per year	41.8 ± 24.8	48.9 ± 24.8	1
Total bases per year	74.4 ± 48.9	98.7 ± 51.4	0.435
Double play grounded into per year	5.5 ± 3.9	5.9 ± 2.5	0.833
Hit by pitch per year	1.6 ± 2.0	4.0 ± 1.6	0.065
Sacrifice hits per year	1.7 ± 2.4	1.2 ± 1.5	1
Sacrifice flies per year	1.5 ± 1.9	2.7 ± 2.9	0.222
Intentional walks per year	0.5 ± 0.5	0.7 ± 1.0	0.833
Hits/at bats	0.24 ± 0.3	0.25 ± 0.3	0.833
On base percentage	0.30 ± 0.04	0.33 ± 0.04	0.222
Slugging percentage	0.33 ± 0.06	0.35 ± 0.06	0.622
On base + slugging percentage	0.63 ± 0.1	0.68 ± 0.09	0.354
Wins above replacement (batters)	0.003 ± 0.24	0.012 ± 0.12	0.659

Data are presented as the average ± standard deviation