

Table S1 Comparison of back pathologies between TFA and TTA patients

Outcome	Non-matched				Matched			
	TFA (N, %)	TTA (N, %)	Odds ratio	p-value	TFA (N, %)	TTA (N, %)	Odds ratio	p-value
Anterior lumbar pathologies	3197 (13.9%)	2217 (13.6%)	0.98 (0.92–1.03)	p=0.4137	2296 (14.1%)	2215 (13.6%)	0.96 (0.90–1.02)	p=0.20
Posterior lumbar pathologies	3012 (13.1%)	2089 (12.8%)	0.98 (0.92–1.03)	p=0.4332	2418 (13.2%)	2082 (12.8%)	0.96 (0.90–1.03)	p=0.28
Radiculopathy	2401 (10.4%)	1688 (10.3%)	0.99 (0.93–1.06)	p=0.8123	1685 (10.3%)	1683 (10.3%)	1.00 (0.94–1.06)	p=0.99
Low back pain	6784 (29.4%)	4750 (29.1%)	0.98 (0.94–1.03)	p=0.468	4809 (29.5%)	4737 (29.0%)	0.98 (0.93–1.03)	p=0.39
Sciatica	1630 (7.1%)	1111 (6.8%)	0.96 (0.89–1.04)	p=0.3129	1179 (7.2%)	1110 (6.8%)	0.94 (0.86–1.02)	p=0.14

Table S2 Comparison of all lumbar fusions and decompressions between TFA and TTA patients

Outcome	Non-matched				Matched			
	TFA (N, %)	TTA(N, %)	Odds ratio	p-value	TFA (N, %)	TTA (N, %)	Odds ratio	p-value
Anterior Lumbar Interfusion All	5 (0.02%)	4 (0.02%)	1.13 (0.30–4.21)	P=1.00	4 (0.02%)	4 (0.02%)	1.00 (0.25–4.0)	p=1.00
Transforaminal Lumbar Interfusion All	4 (0.02%)	4 (0.02%)	1.41 (0.35–5.65)	P=0.90	1 (0.006%)	4 (0.02%)	4.00 (0.45–35.80)	P=0.37
Posterolateral Fusion All	85 (0.37%)	62 (0.38%)	1.03 (0.74–1.43)	p=0.93	60 (0.37%)	62 (0.38%)	1.03 (0.72–1.47)	p=0.93
360 ALIF PL All	6 (0.04%)	3 (0.02%)	0.50 (0.13–1.99)	P=0.50	0	0	NA	NA
360 PLF TLIF All	8 (0.05%)	11 (0.07%)	0.73 (0.29–1.81)	p=0.64	2 (0.12%)	1 (0.06%)	0.50 (0.05–5.52)	p=1.00
Lumbar Decompression	201 (1.2%)	260 (1.6%)	1.30 (1.08–1.56)	p<0.05	20 (1.2%)	15 (0.91%)	0.75 (0.38–1.47)	p=0.50
Lumbar Decompression Revision	12 (0.07%)	20 (0.12%)	1.67 (0.81–3.41)	p=0.22	1 (0.06%)	1 (0.06%)	1.00 (0.06–16.0)	p=1.00
Lumbar Fusion	125 (0.76%)	206 (1.26%)	1.66 (1.32–2.07)	p<0.05	11 (0.70%)	10 (0.61%)	0.91 (0.38–2.15)	p=1.00

Table S3 Comparison of specific spine surgeries between TFA and TTA patients

Outcome	Non-matched				Matched			
	TFA (N, %)	TTA (N, %)	Odds ratio	p-value	TFA (N, %)	TTA (N, %)	Odds ratio	p-value
Sacroiliac joint fusion (CPT 27279)	6 (0.02%)	6 (0.04%)	1.41 (0.46–4.38)	P=0.76	3 (0.02%)	6 (0.04%)	2.00 (0.51–8.0)	P=0.50
Posterior lumbar discectomy (CPT 63030)	88 (0.38%)	69 (0.42%)	1.11 (0.81–1.52)	p=0.58	64 (0.39%)	69 (0.42%)	1.08 (0.77–1.52)	p=0.73
Lumbar anterior interbody fusion (CPT 22633)	46 (0.20%)	34 (0.21%)	1.04 (0.67–1.63)	p=0.94	32 (0.20%)	34 (0.21%)	1.06 (0.66–1.72)	p=0.90
Combined fusion, posterolateral fusion, with posterior interbody fusion (CPT 22633)	69 (0.30 %)	48 (0.29%)	0.98 (0.68–1.42)	p=0.99	54 (0.33%)	48 (0.29%)	0.89 (0.60–1.31)	p=0.62
Lumbar posterolateral fusion (CPT 22612)	105 (0.46 %)	73 (0.45%)	0.98 (0.73–1.32)	p=0.96	72 (0.44%)	73 (0.45%)	1.01 (0.73–1.41)	p=1.00