

LIV L4/L5

Initial Patients: 372

With Posterior Instrumented Fusion: 348

```
      type  N
1: <NA> 267
2:   L5  39
3:   L4  42
```

Patients who end up instrumented until pelvis

```
revision <- read_excel(xls_path, sheet="Revision surgeries") %>%
  as.data.table()

revision[, 'Posterior Instrumented Fusion: Upper / Lower Levels' %>%
  sapply(. %>% strsplit('-', .)[[1]] %>% .[[2]]) ->
  post_intr_fusion

reint_iliac <- revision[post_intr_fusion=='Iliac', 'Code of the patient']

data_['Code of the patient' %in% reint_iliac, 'Code of the patient' %>% uniqueN, type]
```

```
      type V1
1:   L5   9
2: <NA> 13
3:   L4   1
```

UIV frequencies

```
      uiv  N
1:   C3   1
2:   C7   2
3: Iliac   1
4:   L1  27
5:   L2  14
6:   L3  14
7:   L4   9
8:   L5   6
9:   T1   2
10: T10  66
11: T11  19
12: T12  22
13:   T2  53
14:   T3  26
```

```

15:    T4 32
16:    T5  9
17:    T6  3
18:    T7  4
19:    T8 13
20:    T9 25

```

P-value ASA 1 L4 vs L5

```

      treatment asa_1  N
1:         L5      9 39
2:         L4     17 42

```

```
[1] 0.1504928
```

P-value Prior Spine Surgery Yes L4 vs L5

```

      treatment prior_yes  N
1:         L5          11 39
2:         L4           6 42

```

```
[1] 0.2062036
```

Demographics

Age - mean

All

```
[1] 52.38
```

L4

```
[1] 45.79
```

L5

```
[1] 54.03
```

L4 vs L5 p-value:[1] 0.02396962

Age - sd

All

```
[1] 19.25
```

L4

```
[1] 15.97
```

L5

```
[1] 16.21
```

Gender - table

All

variable

```

Female  Male
      274   74

```

L4

```
variable
Female  Male
    33    9
```

L5

```
variable
Female  Male
    32    7
```

Gender - proportion

All

```
variable
    Female    Male
0.7873563 0.2126437
```

L4

```
variable
    Female    Male
0.7857143 0.2142857
```

L5

```
variable
    Female    Male
0.8205128 0.1794872
```

Prior Spine Surgery - table

All

```
variable
    No  Yes
244 104
```

L4

```
variable
    No  Yes
  36   6
```

L5

```
variable
    No  Yes
  28  11
```

Prior Spine Surgery - proportion

All

```
variable
    No    Yes
0.7011494 0.2988506
```

L4

```
variable
    No    Yes
0.8571429 0.1428571
```

L5

```
variable
    No    Yes
0.7179487 0.2820513
```

```
Height (cm)_First Visit - mean
All
[1] 163.01
L4
[1] 164.88
L5
[1] 161.44
```

```
L4 vs L5 p-value:[1] 0.09689435
```

```
Height (cm)_First Visit - sd
All
[1] 9.3
L4
[1] 8.73
L5
[1] 9.65
```

```
Weight (kgs)_First Visit - mean
All
[1] 65.83
L4
[1] 65.76
L5
[1] 65.82
```

```
L4 vs L5 p-value:[1] 0.9838195
```

```
Weight (kgs)_First Visit - sd
All
[1] 13.15
L4
[1] 11.93
L5
[1] 13.84
```

```
BMI_First Visit - mean
All
[1] 24.79
L4
[1] 24.26
L5
[1] 25.3
```

```
L4 vs L5 p-value:[1] 0.3199424
```

```
BMI_First Visit - sd
```

```

All
[1] 4.63
L4
[1] 4.37
L5
[1] 4.98

```

ASA classification - table

```

All
variable
  1  2  3
106 191 51
L4
variable
  1  2  3
17 22  3
L5
variable
  1  2  3
  9 26  4

```

ASA classification - proportion

```

All
variable
      1      2      3
0.3045977 0.5488506 0.1465517
L4
variable
      1      2      3
0.40476190 0.52380952 0.07142857
L5
variable
      1      2      3
0.2307692 0.6666667 0.1025641

```

Tobacco use_First Visit - table

```

All
variable
  Current      Ex Non-User
      69      63      216
L4
variable
  Current      Ex Non-User
      8      9      25
L5
variable
  Current      Ex Non-User
      8      6      25

```

Tobacco use_First Visit - proportion

All
variable
Current Ex Non-User
0.1982759 0.1810345 0.6206897
L4
variable
Current Ex Non-User
0.1904762 0.2142857 0.5952381
L5
variable
Current Ex Non-User
0.2051282 0.1538462 0.6410256

ESSG Diagnosis - table

All
variable

	Congenital		Degenerative	
	9		122	
	Failed-back		Idiopathic	
	19		156	
	Neuromuscular	Other: Ankylosing spondylitis		
	5		1	
	Other: radiotherapy induced	Other: spondylolisthesis		
	1		1	
	Post-traumatic	Scheuermann		
	15		15	
	Syndromic			
	4			

L4
variable

Degenerative	Failed-back	Idiopathic	Post-traumatic	Syndromic
5	1	31	4	1

L5
variable

Congenital	Degenerative	Failed-back	Idiopathic	Post-traumatic
2	12	4	18	1
Scheuermann	Syndromic			
1	1			

ESSG Diagnosis - proportion

All
variable

	Congenital		Degenerative
	0.025862069		0.350574713
	Failed-back		Idiopathic
	0.054597701		0.448275862
	Neuromuscular	Other: Ankylosing spondylitis	
	0.014367816		0.002873563
	Other: radiotherapy induced	Other: spondylolisthesis	
	0.002873563		0.002873563
	Post-traumatic	Scheuermann	
	0.043103448		0.043103448

		Syndromic			
		0.011494253			
L4					
variable					
	Degenerative	Failed-back	Idiopathic	Post-traumatic	Syndromic
	0.11904762	0.02380952	0.73809524	0.09523810	0.02380952
L5					
variable					
	Congenital	Degenerative	Failed-back	Idiopathic	Post-traumatic
	0.05128205	0.30769231	0.10256410	0.46153846	0.02564103
	Scheuermann	Syndromic			
	0.02564103	0.02564103			

Surgical Approach - table

All			
variable			
	Anterior-Posterior		Posterior
	4		329
	Posterior-Anterior		Posterior-Posterior
	11		3
Posterior-Posterior-Anterior			
	1		
L4			
variable			
Posterior			
	42		
L5			
variable			
	Anterior-Posterior	Posterior	Posterior-Posterior
	1	37	1

Surgical Approach - proportion

All			
variable			
	Anterior-Posterior		Posterior
	0.011494253		0.945402299
	Posterior-Anterior		Posterior-Posterior
	0.031609195		0.008620690
Posterior-Posterior-Anterior			
	0.002873563		
L4			
variable			
Posterior			
	1		
L5			
variable			
	Anterior-Posterior	Posterior	Posterior-Posterior
	0.02564103	0.94871795	0.02564103

Radiology

Static Major curve Cobb angle - mean

All

[1] 42.86

L4

[1] 50.22

L5

[1] 45.55

L4 vs L5 p-value:[1] 0.3827009

Static Major curve Cobb angle - sd

All

[1] 21.17

L4

[1] 21.99

L5

[1] 24.55

6W. Static Major curve Cobb angle - mean

All

[1] 22.29

L4

[1] 25.12

L5

[1] 25.29

L4 vs L5 p-value:[1] 0.9662744

6W. Static Major curve Cobb angle - sd

All

[1] 15.04

L4

[1] 15.75

L5

[1] 18.26

6M. Static Major curve Cobb angle - mean

All

[1] 22.12

L4

[1] 25.03

L5

[1] 26.74

L4 vs L5 p-value:[1] 0.6799513

6M. Static Major curve Cobb angle - sd

All

[1] 15.82

L4

[1] 15.7

L5

[1] 18.64

1Y. Static Major curve Cobb angle - mean

All

[1] 20.31

L4

[1] 23.35

L5

[1] 24.5

L4 vs L5 p-value:[1] 0.7742008

1Y. Static Major curve Cobb angle - sd

All

[1] 15.66

L4

[1] 16.7

L5

[1] 18.16

2Y. Static Major curve Cobb angle - mean

All

[1] 21.63

L4

[1] 24.8

L5

[1] 26.43

L4 vs L5 p-value:[1] 0.7054688

2Y. Static Major curve Cobb angle - sd

All

[1] 15.67

L4

[1] 14.12

L5

[1] 19.58

5Y. Static Major curve Cobb angle - mean

All
[1] 24.84
L4
[1] 31.17
L5
[1] 31.12

L4 vs L5 p-value:[1] 0.9920431

5Y. Static Major curve Cobb angle - sd

All
[1] 16.53
L4
[1] 15.81
L5
[1] 20.92

Static Major curve Cobb angle tests all

Preop vs 6w p-value
2.612939e-39

Preop vs 2y p-value
5.814775e-39

Preop vs 5y p-value
3.548346e-20

6w vs 2y p-value
0.6091221

2y vs 5y p-value
0.05985225

6w vs 5y p-value
0.122996

Static Major curve Cobb angle tests L4

Preop vs 6w p-value
2.586475e-07

Preop vs 2y p-value
1.466771e-07

Preop vs 5y p-value
0.0003711541

6w vs 2y p-value
0.9293153

2y vs 5y p-value
0.1491365

6w vs 5y p-value
0.1770632

Static Major curve Cobb angle tests L5
Preop vs 6w p-value
0.0001275796

Preop vs 2y p-value
0.0006094734

Preop vs 5y p-value
0.0195258

6w vs 2y p-value
0.8049483

2y vs 5y p-value
0.4143113

6w vs 5y p-value
0.2849302

Coronal Balance (C7PL to CSVL) - mean
All
[1] 22.94
L4
[1] 19.05
L5
[1] 19.71

L4 vs L5 p-value:[1] 0.8284834

Coronal Balance (C7PL to CSVL) - sd
All
[1] 19.65
L4
[1] 11.78
L5
[1] 14.09

6W. Coronal Balance (C7PL to CSVL) - mean
All
[1] 20.31
L4
[1] 23.2
L5
[1] 22.58

L4 vs L5 p-value:[1] 0.8802018

6W. Coronal Balance (C7PL to CSVL) - sd

All

[1] 15.16

L4

[1] 15.65

L5

[1] 17.75

6M. Coronal Balance (C7PL to CSVL) - mean

All

[1] 18.82

L4

[1] 14.84

L5

[1] 21.69

L4 vs L5 p-value:[1] 0.07179218

6M. Coronal Balance (C7PL to CSVL) - sd

All

[1] 14.82

L4

[1] 9.72

L5

[1] 17.45

1Y. Coronal Balance (C7PL to CSVL) - mean

All

[1] 18.23

L4

[1] 13.36

L5

[1] 20.29

L4 vs L5 p-value:[1] 0.02164315

1Y. Coronal Balance (C7PL to CSVL) - sd

All

[1] 13.87

L4

[1] 8.58

L5

[1] 13.09

2Y. Coronal Balance (C7PL to CSVL) - mean

```
All
[1] 18.25
L4
[1] 14.86
L5
[1] 17.51
```

```
L4 vs L5 p-value:[1] 0.410834
```

```
2Y. Coronal Balance (C7PL to CSVL) - sd
```

```
All
[1] 15.7
L4
[1] 10.72
L5
[1] 13.43
```

```
5Y. Coronal Balance (C7PL to CSVL) - mean
```

```
All
[1] 20.91
L4
[1] 16.56
L5
[1] 17.13
```

```
L4 vs L5 p-value:[1] 0.8667627
```

```
5Y. Coronal Balance (C7PL to CSVL) - sd
```

```
All
[1] 17.44
L4
[1] 9.83
L5
[1] 11.43
```

```
Coronal Balance (C7PL to CSVL) tests all
```

```
Preop vs 6w p-value
0.06260439
```

```
Preop vs 2y p-value
0.001521409
```

```
Preop vs 5y p-value
0.2725863
```

```
6w vs 2y p-value
0.1232651
```

2y vs 5y p-value
0.1386677

6w vs 5y p-value
0.7298518

Coronal Balance (C7PL to CSVL) tests L4
Preop vs 6w p-value
0.2085735

Preop vs 2y p-value
0.1168046

Preop vs 5y p-value
0.3993367

6w vs 2y p-value
0.01337701

2y vs 5y p-value
0.5658197

6w vs 5y p-value
0.06388229

Coronal Balance (C7PL to CSVL) tests L5
Preop vs 6w p-value
0.472363

Preop vs 2y p-value
0.5356145

Preop vs 5y p-value
0.4672372

6w vs 2y p-value
0.2174933

2y vs 5y p-value
0.9186928

6w vs 5y p-value
0.1847344

Sagittal Balance - mean
All
[1] 42.78
L4
[1] 13.12
L5
[1] 29.43

L4 vs L5 p-value:[1] 0.1287651

Sagittal Balance - sd

All

[1] 62.5

L4

[1] 45.54

L5

[1] 47.57

6W. Sagittal Balance - mean

All

[1] 19.26

L4

[1] 8.55

L5

[1] 32.4

L4 vs L5 p-value:[1] 0.007714831

6W. Sagittal Balance - sd

All

[1] 37.37

L4

[1] 29.89

L5

[1] 40.33

6M. Sagittal Balance - mean

All

[1] 15.98

L4

[1] 3.06

L5

[1] 21.68

L4 vs L5 p-value:[1] 0.04552114

6M. Sagittal Balance - sd

All

[1] 43.77

L4

[1] 31.05

L5

[1] 39.2

1Y. Sagittal Balance - mean

```
All
[1] 19.33
L4
[1] -2.35
L5
[1] 19.16

L4 vs L5 p-value:[1] 0.02727914
```

```
1Y. Sagittal Balance - sd
All
[1] 48.72
L4
[1] 33.58
L5
[1] 39.04
```

```
2Y. Sagittal Balance - mean
All
[1] 24.45
L4
[1] -0.56
L5
[1] 28.34

L4 vs L5 p-value:[1] 0.004820746
```

```
2Y. Sagittal Balance - sd
All
[1] 49.39
L4
[1] 34.09
L5
[1] 38.98
```

```
5Y. Sagittal Balance - mean
All
[1] 33.34
L4
[1] 1.48
L5
[1] 40.86

L4 vs L5 p-value:[1] 0.002170761
```

```
5Y. Sagittal Balance - sd
All
```


[1] 48.55
L4
[1] 34.35
L5
[1] 41.26

Sagittal Balance tests all
Preop vs 6w p-value
1.206885e-08

Preop vs 2y p-value
8.029604e-05

Preop vs 5y p-value
0.07912822

6w vs 2y p-value
0.1718073

2y vs 5y p-value
0.08522743

6w vs 5y p-value
0.002833183

Sagittal Balance tests L4
Preop vs 6w p-value
0.6117932

Preop vs 2y p-value
0.1555144

Preop vs 5y p-value
0.2839043

6w vs 2y p-value
0.2615273

2y vs 5y p-value
0.8395493

6w vs 5y p-value
0.4590759

Sagittal Balance tests L5
Preop vs 6w p-value
0.7748762

Preop vs 2y p-value
0.9203671

Preop vs 5y p-value

0.3401732

6w vs 2y p-value
0.6948255

2y vs 5y p-value
0.2952987

6w vs 5y p-value
0.4607481

Sagittal T2-T5 - mean

All

[1] 10.92

L4

[1] 8.68

L5

[1] 10.23

L4 vs L5 p-value:[1] 0.4031292

Sagittal T2-T5 - sd

All

[1] 9.68

L4

[1] 8.86

L5

[1] 7.33

6W. Sagittal T2-T5 - mean

All

[1] 13.59

L4

[1] 11.61

L5

[1] 12.49

L4 vs L5 p-value:[1] 0.5942622

6W. Sagittal T2-T5 - sd

All

[1] 8.2

L4

[1] 7.65

L5

[1] 5.73

6M. Sagittal T2-T5 - mean

```
All
[1] 14.17
L4
[1] 13.66
L5
[1] 13.57

L4 vs L5 p-value:[1] 0.9741784
```

```
6M. Sagittal T2-T5 - sd
All
[1] 9.61
L4
[1] 8.78
L5
[1] 12.52
```

```
1Y. Sagittal T2-T5 - mean
All
[1] 13.76
L4
[1] 12.9
L5
[1] 11.41

L4 vs L5 p-value:[1] 0.5449708
```

```
1Y. Sagittal T2-T5 - sd
All
[1] 9.46
L4
[1] 12.09
L5
[1] 6.79
```

```
2Y. Sagittal T2-T5 - mean
All
[1] 14.44
L4
[1] 14.1
L5
[1] 11.59

L4 vs L5 p-value:[1] 0.2986884
```

```
2Y. Sagittal T2-T5 - sd
All
```

[1] 9.98
L4
[1] 10.44
L5
[1] 8.42

5Y. Sagittal T2-T5 - mean
All
[1] 15.85
L4
[1] 16.41
L5
[1] 7.98

L4 vs L5 p-value:[1] 0.006230627

5Y. Sagittal T2-T5 - sd
All
[1] 11.76
L4
[1] 11.47
L5
[1] 5.66

Sagittal T2-T5 tests all
Preop vs 6w p-value
0.0002083196

Preop vs 2y p-value
1.647942e-05

Preop vs 5y p-value
1.882643e-05

6w vs 2y p-value
0.2700206

2y vs 5y p-value
0.2288968

6w vs 5y p-value
0.04128382

Sagittal T2-T5 tests L4
Preop vs 6w p-value
0.1285903

Preop vs 2y p-value
0.02006606

Preop vs 5y p-value
0.01275474

6w vs 2y p-value
0.2640278

2y vs 5y p-value
0.4650428

6w vs 5y p-value
0.1055092

Sagittal T2-T5 tests L5
Preop vs 6w p-value
0.1502634

Preop vs 2y p-value
0.4955256

Preop vs 5y p-value
0.1955455

6w vs 2y p-value
0.6357217

2y vs 5y p-value
0.07933627

6w vs 5y p-value
0.00684447

Sagittal T5-T12 - mean
All
[1] 32.71
L4
[1] 35.44
L5
[1] 30.14

L4 vs L5 p-value:[1] 0.2415302

Sagittal T5-T12 - sd
All
[1] 19.03
L4
[1] 21.72
L5
[1] 18.18

6W. Sagittal T5-T12 - mean

```
All
[1] 33.63
L4
[1] 33.34
L5
[1] 32.31

L4 vs L5 p-value:[1] 0.7505943
```

```
6W. Sagittal T5-T12 - sd
All
[1] 13.91
L4
[1] 13.38
L5
[1] 13.06
```

```
6M. Sagittal T5-T12 - mean
All
[1] 34.74
L4
[1] 32.99
L5
[1] 30.47

L4 vs L5 p-value:[1] 0.4670917
```

```
6M. Sagittal T5-T12 - sd
All
[1] 14.03
L4
[1] 11.93
L5
[1] 15.49
```

```
1Y. Sagittal T5-T12 - mean
All
[1] 35.4
L4
[1] 34.86
L5
[1] 33.34

L4 vs L5 p-value:[1] 0.6606636
```

```
1Y. Sagittal T5-T12 - sd
All
```

[1] 13.97
L4
[1] 12.48
L5
[1] 14.57

2Y. Sagittal T5-T12 - mean
All
[1] 36.12
L4
[1] 34.98
L5
[1] 33.21

L4 vs L5 p-value:[1] 0.6714107

2Y. Sagittal T5-T12 - sd
All
[1] 15.92
L4
[1] 15.06
L5
[1] 17.13

5Y. Sagittal T5-T12 - mean
All
[1] 39.98
L4
[1] 34.42
L5
[1] 38.97

L4 vs L5 p-value:[1] 0.370834

5Y. Sagittal T5-T12 - sd
All
[1] 15.99
L4
[1] 15.31
L5
[1] 17.27

Sagittal T5-T12 tests all
Preop vs 6w p-value
0.4847253

Preop vs 2y p-value
0.01664519

Preop vs 5y p-value
2.460794e-05

6w vs 2y p-value
0.04836636

2y vs 5y p-value
0.02077773

6w vs 5y p-value
6.718749e-05

Sagittal T5-T12 tests L4
Preop vs 6w p-value
0.6117047

Preop vs 2y p-value
0.9133731

Preop vs 5y p-value
0.8334733

6w vs 2y p-value
0.6403459

2y vs 5y p-value
0.8980827

6w vs 5y p-value
0.7956657

Sagittal T5-T12 tests L5
Preop vs 6w p-value
0.5589206

Preop vs 2y p-value
0.4854693

Preop vs 5y p-value
0.06741964

6w vs 2y p-value
0.8204658

2y vs 5y p-value
0.2458942

6w vs 5y p-value
0.1308473

Sagittal T2-T12 - mean


```
All
[1] 39.66
L4
[1] 39.44
L5
[1] 37.59

L4 vs L5 p-value:[1] 0.6830684
```

```
Sagittal T2-T12 - sd
All
[1] 19.91
L4
[1] 23.04
L5
[1] 17.26
```

```
6W. Sagittal T2-T12 - mean
All
[1] 42.95
L4
[1] 40.42
L5
[1] 41.59

L4 vs L5 p-value:[1] 0.7283135
```

```
6W. Sagittal T2-T12 - sd
All
[1] 15.38
L4
[1] 13.85
L5
[1] 14.08
```

```
6M. Sagittal T2-T12 - mean
All
[1] 44.9
L4
[1] 41.4
L5
[1] 37.9

L4 vs L5 p-value:[1] 0.3164742
```

```
6M. Sagittal T2-T12 - sd
All
```

[1] 15.41
L4
[1] 14.68
L5
[1] 13.93

1Y. Sagittal T2-T12 - mean
All
[1] 44.72
L4
[1] 41.8
L5
[1] 39.68

L4 vs L5 p-value:[1] 0.5951255

1Y. Sagittal T2-T12 - sd
All
[1] 15.31
L4
[1] 17.32
L5
[1] 14.87

2Y. Sagittal T2-T12 - mean
All
[1] 45.67
L4
[1] 43.71
L5
[1] 39.99

L4 vs L5 p-value:[1] 0.3569212

2Y. Sagittal T2-T12 - sd
All
[1] 15.77
L4
[1] 18.04
L5
[1] 13.96

5Y. Sagittal T2-T12 - mean
All
[1] 49.57
L4

[1] 44.99

L5

[1] 41.33

L4 vs L5 p-value:[1] 0.4891298

5Y. Sagittal T2-T12 - sd

All

[1] 16.78

L4

[1] 17.33

L5

[1] 16.16

Sagittal T2-T12 tests all

Preop vs 6w p-value

0.01835384

Preop vs 2y p-value

3.481336e-05

Preop vs 5y p-value

5.620083e-08

6w vs 2y p-value

0.03750999

2y vs 5y p-value

0.02322655

6w vs 5y p-value

9.599658e-05

Sagittal T2-T12 tests L4

Preop vs 6w p-value

0.8184996

Preop vs 2y p-value

0.3649725

Preop vs 5y p-value

0.2962936

6w vs 2y p-value

0.3925143

2y vs 5y p-value

0.7959928

6w vs 5y p-value

0.3178374

Sagittal T2-T12 tests L5
Preop vs 6w p-value
0.2855313

Preop vs 2y p-value
0.5301449

Preop vs 5y p-value
0.4097321

6w vs 2y p-value
0.6560589

2y vs 5y p-value
0.7612263

6w vs 5y p-value
0.9524485

Lordosis (top of L1-S1) - mean
All
[1] -43.5
L4
[1] -47.52
L5
[1] -41.38

L4 vs L5 p-value:[1] 0.12683

Lordosis (top of L1-S1) - sd
All
[1] 20.7
L4
[1] 18.97
L5
[1] 16.79

6W. Lordosis (top of L1-S1) - mean
All
[1] -51.24
L4
[1] -49
L5
[1] -45.14

L4 vs L5 p-value:[1] 0.1983333

6W. Lordosis (top of L1-S1) - sd
All

[1] 14.32
L4
[1] 14.45
L5
[1] 11.52

6M. Lordosis (top of L1-S1) - mean
All
[1] -50.93
L4
[1] -49.88
L5
[1] -44.72

L4 vs L5 p-value:[1] 0.0843069

6M. Lordosis (top of L1-S1) - sd
All
[1] 14.14
L4
[1] 13.63
L5
[1] 12.23

1Y. Lordosis (top of L1-S1) - mean
All
[1] -51
L4
[1] -50.41
L5
[1] -47.47

L4 vs L5 p-value:[1] 0.3247297

1Y. Lordosis (top of L1-S1) - sd
All
[1] 14.44
L4
[1] 13.61
L5
[1] 12.03

2Y. Lordosis (top of L1-S1) - mean
All
[1] -51.49
L4

[1] -52.71
L5
[1] -49.11

L4 vs L5 p-value:[1] 0.3273227

2Y. Lordosis (top of L1-S1) - sd
All
[1] 15.19
L4
[1] 15.73
L5
[1] 14.16

5Y. Lordosis (top of L1-S1) - mean
All
[1] -50.79
L4
[1] -48.35
L5
[1] -45.54

L4 vs L5 p-value:[1] 0.5608513

5Y. Lordosis (top of L1-S1) - sd
All
[1] 15.77
L4
[1] 16.35
L5
[1] 14.55

Lordosis (top of L1-S1) tests all
Preop vs 6w p-value
2.126727e-08

Preop vs 2y p-value
3.707571e-08

Preop vs 5y p-value
3.070916e-05

6w vs 2y p-value
0.8388887

2y vs 5y p-value
0.6632412

6w vs 5y p-value
0.7685465

Lordosis (top of L1-S1) tests L4
Preop vs 6w p-value
0.6915798

Preop vs 2y p-value
0.1928245

Preop vs 5y p-value
0.8599529

6w vs 2y p-value
0.296182

2y vs 5y p-value
0.3403641

6w vs 5y p-value
0.8806502

Lordosis (top of L1-S1) tests L5
Preop vs 6w p-value
0.2553332

Preop vs 2y p-value
0.03915649

Preop vs 5y p-value
0.3167956

6w vs 2y p-value
0.2089853

2y vs 5y p-value
0.3747529

6w vs 5y p-value
0.9138651

Pelvic Incidence - mean
All
[1] 53.94
L4
[1] 48.92
L5
[1] 52.54

L4 vs L5 p-value:[1] 0.157949

Pelvic Incidence - sd
All

[1] 13.08
L4
[1] 11.38
L5
[1] 11.51

6W. Pelvic Incidence - mean
All
[1] 54.07
L4
[1] 48.22
L5
[1] 52.59

L4 vs L5 p-value:[1] 0.1014558

6W. Pelvic Incidence - sd
All
[1] 12.97
L4
[1] 11.59
L5
[1] 11.57

6M. Pelvic Incidence - mean
All
[1] 53.87
L4
[1] 47.78
L5
[1] 51.51

L4 vs L5 p-value:[1] 0.1498352

6M. Pelvic Incidence - sd
All
[1] 12.66
L4
[1] 11.44
L5
[1] 10.87

1Y. Pelvic Incidence - mean
All
[1] 53.59
L4

[1] 47.95
L5
[1] 52.65

L4 vs L5 p-value:[1] 0.06155034

1Y. Pelvic Incidence - sd
All
[1] 12.56
L4
[1] 10.76
L5
[1] 10.83

2Y. Pelvic Incidence - mean
All
[1] 53.74
L4
[1] 47.66
L5
[1] 53.41

L4 vs L5 p-value:[1] 0.05246645

2Y. Pelvic Incidence - sd
All
[1] 12.46
L4
[1] 12.84
L5
[1] 10.79

5Y. Pelvic Incidence - mean
All
[1] 54.78
L4
[1] 47.26
L5
[1] 54.88

L4 vs L5 p-value:[1] 0.05373662

5Y. Pelvic Incidence - sd
All
[1] 12.47
L4
[1] 12.85

L5
[1] 11.88

Pelvic Incidence tests all
Preop vs 6w p-value
0.9010697

Preop vs 2y p-value
0.8429863

Preop vs 5y p-value
0.5073785

6w vs 2y p-value
0.7511546

2y vs 5y p-value
0.4181801

6w vs 5y p-value
0.5754863

Pelvic Incidence tests L4
Preop vs 6w p-value
0.7851161

Preop vs 2y p-value
0.6566142

Preop vs 5y p-value
0.6268108

6w vs 2y p-value
0.846688

2y vs 5y p-value
0.9137755

6w vs 5y p-value
0.7820696

Pelvic Incidence tests L5
Preop vs 6w p-value
0.9855682

Preop vs 2y p-value
0.7438247

Preop vs 5y p-value
0.4595302

6w vs 2y p-value

0.7594724

2y vs 5y p-value
0.6457166

6w vs 5y p-value
0.4714235

Pelvic Tilt - mean

All

[1] 21.87

L4

[1] 17.06

L5

[1] 21.66

L4 vs L5 p-value:[1] 0.0149214

Pelvic Tilt - sd

All

[1] 10.85

L4

[1] 7.94

L5

[1] 8.61

6W. Pelvic Tilt - mean

All

[1] 18

L4

[1] 14.51

L5

[1] 20.88

L4 vs L5 p-value:[1] 0.001285324

6W. Pelvic Tilt - sd

All

[1] 9.45

L4

[1] 8.29

L5

[1] 8.41

6M. Pelvic Tilt - mean

All

[1] 19.46

L4

[1] 14.35
L5
[1] 21.23

L4 vs L5 p-value:[1] 0.0003621315

6M. Pelvic Tilt - sd
All
[1] 9.71
L4
[1] 8.2
L5
[1] 7.8

1Y. Pelvic Tilt - mean
All
[1] 19.39
L4
[1] 15.79
L5
[1] 21.01

L4 vs L5 p-value:[1] 0.007487864

1Y. Pelvic Tilt - sd
All
[1] 10.13
L4
[1] 9.03
L5
[1] 7.45

2Y. Pelvic Tilt - mean
All
[1] 19.28
L4
[1] 14.12
L5
[1] 21.49

L4 vs L5 p-value:[1] 0.0002880703

2Y. Pelvic Tilt - sd
All
[1] 9.35
L4
[1] 8.15

L5
[1] 7.47

5Y. Pelvic Tilt - mean
All
[1] 21.77
L4
[1] 16.33
L5
[1] 24.74

L4 vs L5 p-value:[1] 0.002866542

5Y. Pelvic Tilt - sd
All
[1] 9.71
L4
[1] 9.52
L5
[1] 7.21

Pelvic Tilt tests all
Preop vs 6w p-value
1.187258e-06

Preop vs 2y p-value
0.001479425

Preop vs 5y p-value
0.916233

6w vs 2y p-value
0.09717174

2y vs 5y p-value
0.01212081

6w vs 5y p-value
0.0001245306

Pelvic Tilt tests L4
Preop vs 6w p-value
0.1615846

Preop vs 2y p-value
0.117574

Preop vs 5y p-value
0.7667899

6w vs 2y p-value
0.8393235

2y vs 5y p-value
0.3912525

6w vs 5y p-value
0.4735358

Pelvic Tilt tests L5
Preop vs 6w p-value
0.6892586

Preop vs 2y p-value
0.9329098

Preop vs 5y p-value
0.1410062

6w vs 2y p-value
0.7461256

2y vs 5y p-value
0.1156544

6w vs 5y p-value
0.06580587

Sacral Slope - mean
All
[1] 32.5
L4
[1] 31.71
L5
[1] 31.57

L4 vs L5 p-value:[1] 0.9493803

Sacral Slope - sd
All
[1] 11.24
L4
[1] 9.97
L5
[1] 9.55

6W. Sacral Slope - mean
All
[1] 36.02
L4

[1] 33.65
L5
[1] 31.66

L4 vs L5 p-value:[1] 0.3513935

6W. Sacral Slope - sd
All
[1] 10.21
L4
[1] 9.98
L5
[1] 8.62

6M. Sacral Slope - mean
All
[1] 34.38
L4
[1] 33.31
L5
[1] 30.09

L4 vs L5 p-value:[1] 0.1211204

6M. Sacral Slope - sd
All
[1] 10.06
L4
[1] 8.97
L5
[1] 8.9

1Y. Sacral Slope - mean
All
[1] 34.24
L4
[1] 32.18
L5
[1] 31.59

L4 vs L5 p-value:[1] 0.7688873

1Y. Sacral Slope - sd
All
[1] 9.65
L4
[1] 8.97

L5
[1] 8.47

2Y. Sacral Slope - mean

All

[1] 34.55

L4

[1] 33.54

L5

[1] 31.89

L4 vs L5 p-value:[1] 0.4866861

2Y. Sacral Slope - sd

All

[1] 10.44

L4

[1] 10.43

L5

[1] 8.7

5Y. Sacral Slope - mean

All

[1] 33.02

L4

[1] 30.93

L5

[1] 30.14

L4 vs L5 p-value:[1] 0.8072471

5Y. Sacral Slope - sd

All

[1] 10.79

L4

[1] 11.36

L5

[1] 9.43

Sacral Slope tests all

Preop vs 6w p-value

2.495369e-05

Preop vs 2y p-value

0.01868629

Preop vs 5y p-value
0.632141

6w vs 2y p-value
0.08166943

2y vs 5y p-value
0.1639381

6w vs 5y p-value
0.00523052

Sacral Slope tests L4
Preop vs 6w p-value
0.3833419

Preop vs 2y p-value
0.4407815

Preop vs 5y p-value
0.7957267

6w vs 2y p-value
0.9617974

2y vs 5y p-value
0.4070707

6w vs 5y p-value
0.3709415

Sacral Slope tests L5
Preop vs 6w p-value
0.9648205

Preop vs 2y p-value
0.8844373

Preop vs 5y p-value
0.5755429

6w vs 2y p-value
0.9137375

2y vs 5y p-value
0.4930107

6w vs 5y p-value
0.5372656

RLL - mean
All
[1] -19
L4

```
[1] -11.81
L5
[1] -20.19
```

```
L4 vs L5 p-value:[1] 0.01887427
```

```
RLL - sd
All
[1] 20.39
L4
[1] 16.41
L5
[1] 15.07
```

```
6W. RLL - mean
All
[1] -11.18
L4
[1] -9.89
L5
[1] -16.47
```

```
L4 vs L5 p-value:[1] 0.01238277
```

```
6W. RLL - sd
All
[1] 12.93
L4
[1] 11.08
L5
[1] 11.42
```

```
6M. RLL - mean
All
[1] -11.42
L4
[1] -8.75
L5
[1] -15.94
```

```
L4 vs L5 p-value:[1] 0.007415021
```

```
6M. RLL - sd
All
[1] 12.93
L4
[1] 11.13
```

```
L5
[1] 11.51
```

```
1Y. RLL - mean
```

```
All
[1] -11.34
L4
[1] -8.2
L5
[1] -14.17
```

```
L4 vs L5 p-value:[1] 0.02978466
```

```
1Y. RLL - sd
```

```
All
[1] 13.82
L4
[1] 12.05
L5
[1] 11.27
```

```
2Y. RLL - mean
```

```
All
[1] -10.63
L4
[1] -5.75
L5
[1] -13.01
```

```
L4 vs L5 p-value:[1] 0.0270933
```

```
2Y. RLL - sd
```

```
All
[1] 14.04
L4
[1] 12.27
L5
[1] 13.67
```

```
5Y. RLL - mean
```

```
All
[1] -12.17
L4
[1] -9.96
L5
[1] -17.49
```

L4 vs L5 p-value:[1] 0.07973966

5Y. RLL - sd

All

[1] 13.83

L4

[1] 13.59

L5

[1] 13.54

RLL tests all

Preop vs 6w p-value

4.717714e-09

Preop vs 2y p-value

2.628085e-09

Preop vs 5y p-value

2.446303e-05

6w vs 2y p-value

0.6209054

2y vs 5y p-value

0.2805146

6w vs 5y p-value

0.4643248

RLL tests L4

Preop vs 6w p-value

0.5367176

Preop vs 2y p-value

0.06984195

Preop vs 5y p-value

0.6413212

6w vs 2y p-value

0.1374585

2y vs 5y p-value

0.2630089

6w vs 5y p-value

0.9856025

RLL tests L5

Preop vs 6w p-value

0.2245042

Preop vs 2y p-value
0.03904527

Preop vs 5y p-value
0.4763129

6w vs 2y p-value
0.2606083

2y vs 5y p-value
0.2397934

6w vs 5y p-value
0.7664089

Global Tilt - mean

All

[1] 26.35

L4

[1] 17.64

L5

[1] 24.2

L4 vs L5 p-value:[1] 0.02809123

Global Tilt - sd

All

[1] 17.64

L4

[1] 12.35

L5

[1] 13.7

6W. Global Tilt - mean

All

[1] 18.64

L4

[1] 13.85

L5

[1] 23.4

L4 vs L5 p-value:[1] 0.0005703284

6W. Global Tilt - sd

All

[1] 11.85

L4

[1] 9.67

L5
[1] 12.23

6M. Global Tilt - mean

All
[1] 20.27
L4
[1] 13.33
L5
[1] 21.96

L4 vs L5 p-value:[1] 0.002285445

6M. Global Tilt - sd

All
[1] 13.31
L4
[1] 9.67
L5
[1] 11.16

1Y. Global Tilt - mean

All
[1] 20.78
L4
[1] 13.13
L5
[1] 22.32

L4 vs L5 p-value:[1] 0.0002698268

1Y. Global Tilt - sd

All
[1] 13.82
L4
[1] 8.91
L5
[1] 9.5

2Y. Global Tilt - mean

All
[1] 20.92
L4
[1] 12.2
L5
[1] 22.95

L4 vs L5 p-value:[1] 0.0001167054

2Y. Global Tilt - sd

All

[1] 13.81

L4

[1] 10.32

L5

[1] 10.56

5Y. Global Tilt - mean

All

[1] 24.64

L4

[1] 15.12

L5

[1] 28.79

L4 vs L5 p-value:[1] 0.0005289438

5Y. Global Tilt - sd

All

[1] 14.71

L4

[1] 12.45

L5

[1] 10.78

Global Tilt tests all

Preop vs 6w p-value

2.128835e-10

Preop vs 2y p-value

3.027628e-05

Preop vs 5y p-value

0.276022

6w vs 2y p-value

0.03846796

2y vs 5y p-value

0.01361396

6w vs 5y p-value

3.122083e-05

Global Tilt tests L4
Preop vs 6w p-value
0.1305389

Preop vs 2y p-value
0.04140948

Preop vs 5y p-value
0.4596082

6w vs 2y p-value
0.4954686

2y vs 5y p-value
0.384842

6w vs 5y p-value
0.694201

Global Tilt tests L5
Preop vs 6w p-value
0.796135

Preop vs 2y p-value
0.6721474

Preop vs 5y p-value
0.1565911

6w vs 2y p-value
0.8742746

2y vs 5y p-value
0.0563147

6w vs 5y p-value
0.08965174

T1 Sagittal Tilt - mean
All
[1] -1.73
L4
[1] -4.47
L5
[1] -2.36

L4 vs L5 p-value:[1] 0.07816866

T1 Sagittal Tilt - sd
All
[1] 6.12
L4
[1] 3.57

L5
[1] 5.96

6W. T1 Sagittal Tilt - mean
All
[1] -3.54
L4
[1] -4
L5
[1] -1.83

L4 vs L5 p-value:[1] 0.01879112

6W. T1 Sagittal Tilt - sd
All
[1] 4.01
L4
[1] 3.32
L5
[1] 3.81

6M. T1 Sagittal Tilt - mean
All
[1] -4.21
L4
[1] -4.84
L5
[1] -3.8

L4 vs L5 p-value:[1] 0.196341

6M. T1 Sagittal Tilt - sd
All
[1] 4.29
L4
[1] 3.2
L5
[1] 3.03

1Y. T1 Sagittal Tilt - mean
All
[1] -3.86
L4
[1] -5
L5
[1] -4.24

L4 vs L5 p-value:[1] 0.4966102

1Y. T1 Sagittal Tilt - sd

All

[1] 5.01

L4

[1] 4.6

L5

[1] 4.05

2Y. T1 Sagittal Tilt - mean

All

[1] -3.64

L4

[1] -5.16

L5

[1] -3.13

L4 vs L5 p-value:[1] 0.01624378

2Y. T1 Sagittal Tilt - sd

All

[1] 4.49

L4

[1] 3.13

L5

[1] 3.39

5Y. T1 Sagittal Tilt - mean

All

[1] -2.81

L4

[1] -5.11

L5

[1] -2.46

L4 vs L5 p-value:[1] 0.009462915

5Y. T1 Sagittal Tilt - sd

All

[1] 4.93

L4

[1] 2.83

L5

[1] 3.46

T1 Sagittal Tilt tests all
Preop vs 6w p-value
2.950444e-05

Preop vs 2y p-value
2.561922e-05

Preop vs 5y p-value
0.04732429

6w vs 2y p-value
0.7813274

2y vs 5y p-value
0.09785102

6w vs 5y p-value
0.1322135

T1 Sagittal Tilt tests L4
Preop vs 6w p-value
0.5723161

Preop vs 2y p-value
0.3950976

Preop vs 5y p-value
0.4607995

6w vs 2y p-value
0.1568297

2y vs 5y p-value
0.9538986

6w vs 5y p-value
0.2052346

T1 Sagittal Tilt tests L5
Preop vs 6w p-value
0.6672455

Preop vs 2y p-value
0.5177708

Preop vs 5y p-value
0.932823

6w vs 2y p-value
0.156091

2y vs 5y p-value

0.4890376

6w vs 5y p-value
0.527774

Thoracolumbar L2-T10 - mean

All

[1] 10.15

L4

[1] 24.82

L5

[1] 11.15

L4 vs L5 p-value:[1] 0.004158729

Thoracolumbar L2-T10 - sd

All

[1] 20.63

L4

[1] 19.97

L5

[1] 20.96

6W. Thoracolumbar L2-T10 - mean

All

[1] 4.75

L4

[1] 1.5

L5

[1] 3.38

L4 vs L5 p-value:[1] 0.534681

6W. Thoracolumbar L2-T10 - sd

All

[1] 12.09

L4

[1] 14.33

L5

[1] 10.2

6M. Thoracolumbar L2-T10 - mean

All

[1] 4.95

L4

[1] 3.24

L5

[1] 5.31

L4 vs L5 p-value:[1] 0.4708201

6M. Thoracolumbar L2-T10 - sd

All

[1] 12.19

L4

[1] 10.87

L5

[1] 11.07

1Y. Thoracolumbar L2-T10 - mean

All

[1] 5.37

L4

[1] 4.33

L5

[1] 6.91

L4 vs L5 p-value:[1] 0.4209241

1Y. Thoracolumbar L2-T10 - sd

All

[1] 12.62

L4

[1] 10.26

L5

[1] 14.37

2Y. Thoracolumbar L2-T10 - mean

All

[1] 5.79

L4

[1] 4.02

L5

[1] 7.7

L4 vs L5 p-value:[1] 0.2159588

2Y. Thoracolumbar L2-T10 - sd

All

[1] 12.67

L4

[1] 10.74

L5

[1] 11.77

5Y. Thoracolumbar L2-T10 - mean

All

[1] 6.98

L4

[1] 5.65

L5

[1] 9.37

L4 vs L5 p-value:[1] 0.3128641

5Y. Thoracolumbar L2-T10 - sd

All

[1] 13.96

L4

[1] 11.3

L5

[1] 12.25

Thoracolumbar L2-T10 tests all

Preop vs 6w p-value

5.465972e-05

Preop vs 2y p-value

0.001546628

Preop vs 5y p-value

0.05238359

6w vs 2y p-value

0.3165752

2y vs 5y p-value

0.3984091

6w vs 5y p-value

0.1027737

Thoracolumbar L2-T10 tests L4

Preop vs 6w p-value

9.798708e-08

Preop vs 2y p-value

2.345396e-07

Preop vs 5y p-value

1.110709e-05

6w vs 2y p-value

0.4177206

2y vs 5y p-value
0.6064043

6w vs 5y p-value
0.2446928

Thoracolumbar L2-T10 tests L5
Preop vs 6w p-value
0.04948556

Preop vs 2y p-value
0.4054651

Preop vs 5y p-value
0.6810473

6w vs 2y p-value
0.1378671

2y vs 5y p-value
0.6315653

6w vs 5y p-value
0.06436168

RSA - mean
All
[1] 15.35
L4
[1] 9.16
L5
[1] 13.83

L4 vs L5 p-value:[1] 0.07113172

RSA - sd
All
[1] 15.39
L4
[1] 11.44
L5
[1] 11.35

6W. RSA - mean
All
[1] 7.57
L4
[1] 5.67
L5
[1] 13.1

L4 vs L5 p-value:[1] 0.001320824

6W. RSA - sd

All

[1] 9.3

L4

[1] 8.85

L5

[1] 9.74

6M. RSA - mean

All

[1] 9.33

L4

[1] 5.33

L5

[1] 12.52

L4 vs L5 p-value:[1] 0.0009051997

6M. RSA - sd

All

[1] 10.52

L4

[1] 8.02

L5

[1] 8.11

1Y. RSA - mean

All

[1] 9.85

L4

[1] 5.17

L5

[1] 11.99

L4 vs L5 p-value:[1] 0.0005692798

1Y. RSA - sd

All

[1] 10.95

L4

[1] 7.36

L5

[1] 7.24

2Y. RSA - mean

All

[1] 10.09

L4

[1] 4.16

L5

[1] 12.57

L4 vs L5 p-value:[1] 0.0002771497

2Y. RSA - sd

All

[1] 11.55

L4

[1] 9.35

L5

[1] 8.09

5Y. RSA - mean

All

[1] 13.34

L4

[1] 7.43

L5

[1] 17.45

L4 vs L5 p-value:[1] 0.003816685

5Y. RSA - sd

All

[1] 12.69

L4

[1] 11.86

L5

[1] 8.63

RSA tests all

Preop vs 6w p-value

4.959458e-14

Preop vs 2y p-value

2.441125e-06

Preop vs 5y p-value

0.1393535

6w vs 2y p-value
0.005318745

2y vs 5y p-value
0.01148679

6w vs 5y p-value
2.49948e-06

RSA tests L4
Preop vs 6w p-value
0.1314663

Preop vs 2y p-value
0.04077405

Preop vs 5y p-value
0.5912976

6w vs 2y p-value
0.4903931

2y vs 5y p-value
0.2999071

6w vs 5y p-value
0.5642791

RSA tests L5
Preop vs 6w p-value
0.7694667

Preop vs 2y p-value
0.5937744

Preop vs 5y p-value
0.1704213

6w vs 2y p-value
0.8130623

2y vs 5y p-value
0.04350424

6w vs 5y p-value
0.08640004

RPV - mean
All
[1] -8.4
L4
[1] -6.15
L5
[1] -8.53

L4 vs L5 p-value:[1] 0.1099413

RPV - sd
All
[1] 9.09
L4
[1] 6.91
L5
[1] 6.26

6W. RPV - mean
All
[1] -4.86
L4
[1] -3.79
L5
[1] -8.37

L4 vs L5 p-value:[1] 0.0036263

6W. RPV - sd
All
[1] 7.51
L4
[1] 7
L5
[1] 6.35

6M. RPV - mean
All
[1] -6.4
L4
[1] -3.88
L5
[1] -9.31

L4 vs L5 p-value:[1] 0.0004057546

6M. RPV - sd
All
[1] 7.67
L4
[1] 6.45
L5
[1] 6.28

1Y. RPV - mean

All

[1] -6.41

L4

[1] -5.11

L5

[1] -8.47

L4 vs L5 p-value:[1] 0.02849249

1Y. RPV - sd

All

[1] 7.84

L4

[1] 7.31

L5

[1] 5.76

2Y. RPV - mean

All

[1] -6.17

L4

[1] -3.58

L5

[1] -8.63

L4 vs L5 p-value:[1] 0.001881745

2Y. RPV - sd

All

[1] 7.73

L4

[1] 6.65

L5

[1] 5.99

5Y. RPV - mean

All

[1] -8.3

L4

[1] -5.95

L5

[1] -11.24

L4 vs L5 p-value:[1] 0.02152269

5Y. RPV - sd

All

[1] 8.12

L4

[1] 8.15

L5

[1] 5.74

RPV tests all

Preop vs 6w p-value

5.931477e-08

Preop vs 2y p-value

0.0009951724

Preop vs 5y p-value

0.9094059

6w vs 2y p-value

0.03599535

2y vs 5y p-value

0.009801427

6w vs 5y p-value

2.251031e-05

RPV tests L4

Preop vs 6w p-value

0.131529

Preop vs 2y p-value

0.1038785

Preop vs 5y p-value

0.9246635

6w vs 2y p-value

0.8939752

2y vs 5y p-value

0.2780007

6w vs 5y p-value

0.3206989

RPV tests L5

Preop vs 6w p-value

0.9094009

Preop vs 2y p-value

0.9493303

Preop vs 5y p-value
0.09522309

6w vs 2y p-value
0.8614437

2y vs 5y p-value
0.1128968

6w vs 5y p-value
0.07880649

Quality of Life

ODI - Score (%) - mean

All

[1] 37.48

L4

[1] 29.22

L5

[1] 40.79

L4 vs L5 p-value:[1] 0.004970222

ODI - Score (%) - sd

All

[1] 19.84

L4

[1] 17.7

L5

[1] 17.82

6M. ODI - Score (%) - mean

All

[1] 28.64

L4

[1] 26.24

L5

[1] 28.3

L4 vs L5 p-value:[1] 0.5870559

6M. ODI - Score (%) - sd

All

[1] 17.88

L4

[1] 15.96

L5
[1] 15.87

1Y. ODI - Score (%) - mean
All
[1] 25.89
L4
[1] 18.9
L5
[1] 29.66

L4 vs L5 p-value:[1] 0.006735415

1Y. ODI - Score (%) - sd
All
[1] 18.01
L4
[1] 15.16
L5
[1] 17.66

2Y. ODI - Score (%) - mean
All
[1] 27.66
L4
[1] 21.02
L5
[1] 27.68

L4 vs L5 p-value:[1] 0.1289585

2Y. ODI - Score (%) - sd
All
[1] 21.22
L4
[1] 18.02
L5
[1] 20.52

5Y. ODI - Score (%) - mean
All
[1] 28.82
L4
[1] 23.66
L5
[1] 29.47

L4 vs L5 p-value:[1] 0.1752142

5Y. ODI - Score (%) - sd

All

[1] 21.57

L4

[1] 17.71

L5

[1] 16.43

ODI - Score (%) tests all

Preop vs 6m p-value

4.234456e-09

Preop vs 2y p-value

1.669532e-09

Preop vs 5y p-value

1.3154e-06

6m vs 2y p-value

0.531449

2y vs 5y p-value

0.5283208

6w vs 5y p-value

3.523138e-53

ODI - Score (%) tests L4

Preop vs 6m p-value

0.4333096

Preop vs 2y p-value

0.03972036

Preop vs 5y p-value

0.1763392

6m vs 2y p-value

0.1739929

2y vs 5y p-value

0.5212302

6m vs 5y p-value

0.5166256

ODI - Score (%) tests L5

Preop vs 6m p-value

0.0003512974

Preop vs 2y p-value
0.004010115

Preop vs 5y p-value
0.00842788

6m vs 2y p-value
0.7324842

2y vs 5y p-value
0.6920722

6w vs 5y p-value
4.821621e-14

SRS22 - Function / Activity - mean

All

[1] 3.09

L4

[1] 3.28

L5

[1] 2.87

L4 vs L5 p-value:[1] 0.02683056

SRS22 - Function / Activity - sd

All

[1] 0.86

L4

[1] 0.87

L5

[1] 0.72

6M. SRS22 - Function / Activity - mean

All

[1] 3.24

L4

[1] 3.22

L5

[1] 3.07

L4 vs L5 p-value:[1] 0.4605215

6M. SRS22 - Function / Activity - sd

All

[1] 0.81

L4

[1] 0.85

L5
[1] 0.82

1Y. SRS22 - Function / Activity - mean
All
[1] 3.39
L4
[1] 3.67
L5
[1] 3.11

L4 vs L5 p-value:[1] 0.009749303

1Y. SRS22 - Function / Activity - sd
All
[1] 0.89
L4
[1] 0.91
L5
[1] 0.9

2Y. SRS22 - Function / Activity - mean
All
[1] 3.47
L4
[1] 3.71
L5
[1] 3.39

L4 vs L5 p-value:[1] 0.1080432

2Y. SRS22 - Function / Activity - sd
All
[1] 0.93
L4
[1] 0.89
L5
[1] 0.82

5Y. SRS22 - Function / Activity - mean
All
[1] 3.48
L4
[1] 3.58
L5
[1] 3.38

L4 vs L5 p-value:[1] 0.3105073

5Y. SRS22 - Function / Activity - sd

All

[1] 0.91

L4

[1] 0.9

L5

[1] 0.7

SRS22 - Function / Activity tests all

Preop vs 6m p-value

0.02173791

Preop vs 2y p-value

7.667214e-08

Preop vs 5y p-value

3.075026e-07

6m vs 2y p-value

0.0008535996

2y vs 5y p-value

0.9164978

6w vs 5y p-value

8.598641e-14

SRS22 - Function / Activity tests L4

Preop vs 6m p-value

0.7656171

Preop vs 2y p-value

0.02926171

Preop vs 5y p-value

0.1403798

6m vs 2y p-value

0.01448075

2y vs 5y p-value

0.5472829

6m vs 5y p-value

0.08226201

SRS22 - Function / Activity tests L5

Preop vs 6m p-value

0.05918874

Preop vs 2y p-value
0.005170153

Preop vs 5y p-value
0.004423053

6m vs 2y p-value
0.3791198

2y vs 5y p-value
0.9502907

6w vs 5y p-value
9.494831e-14

SRS22 - Pain - mean

All

[1] 2.6

L4

[1] 2.83

L5

[1] 2.35

L4 vs L5 p-value:[1] 0.02800391

SRS22 - Pain - sd

All

[1] 0.97

L4

[1] 1.01

L5

[1] 0.88

6M. SRS22 - Pain - mean

All

[1] 3.42

L4

[1] 3.42

L5

[1] 3.37

L4 vs L5 p-value:[1] 0.8011964

6M. SRS22 - Pain - sd

All

[1] 0.9

L4

[1] 0.86

L5
[1] 0.88

1Y. SRS22 - Pain - mean
All
[1] 3.56
L4
[1] 3.85
L5
[1] 3.4

L4 vs L5 p-value:[1] 0.05004134

1Y. SRS22 - Pain - sd
All
[1] 0.97
L4
[1] 0.94
L5
[1] 0.99

2Y. SRS22 - Pain - mean
All
[1] 3.49
L4
[1] 3.78
L5
[1] 3.31

L4 vs L5 p-value:[1] 0.04307255

2Y. SRS22 - Pain - sd
All
[1] 1.1
L4
[1] 1
L5
[1] 1.01

5Y. SRS22 - Pain - mean
All
[1] 3.34
L4
[1] 3.47
L5
[1] 3.08

L4 vs L5 p-value:[1] 0.1354012

5Y. SRS22 - Pain - sd

All

[1] 1.13

L4

[1] 1.06

L5

[1] 1.01

SRS22 - Pain tests all

Preop vs 6m p-value

8.395163e-27

Preop vs 2y p-value

6.671258e-26

Preop vs 5y p-value

1.989905e-15

6m vs 2y p-value

0.3762109

2y vs 5y p-value

0.1167575

6w vs 5y p-value

1.179657e-13

SRS22 - Pain tests L4

Preop vs 6m p-value

0.005996365

Preop vs 2y p-value

4.344815e-05

Preop vs 5y p-value

0.008788428

6m vs 2y p-value

0.08866341

2y vs 5y p-value

0.1923711

6m vs 5y p-value

0.8343482

SRS22 - Pain tests L5

Preop vs 6m p-value

9.020891e-07

Preop vs 2y p-value
4.950859e-05

Preop vs 5y p-value
0.002440434

6m vs 2y p-value
0.6089766

2y vs 5y p-value
0.3669379

6w vs 5y p-value
1.699573e-13

SRS22 - Self image / Appearance - mean

All

[1] 2.38

L4

[1] 2.59

L5

[1] 2.34

L4 vs L5 p-value:[1] 0.1548127

SRS22 - Self image / Appearance - sd

All

[1] 0.74

L4

[1] 0.82

L5

[1] 0.71

6M. SRS22 - Self image / Appearance - mean

All

[1] 3.49

L4

[1] 3.7

L5

[1] 3.5

L4 vs L5 p-value:[1] 0.2922336

6M. SRS22 - Self image / Appearance - sd

All

[1] 0.83

L4

[1] 0.68

L5
[1] 0.87

1Y. SRS22 - Self image / Appearance - mean
All
[1] 3.53
L4
[1] 3.82
L5
[1] 3.44

L4 vs L5 p-value:[1] 0.05463313

1Y. SRS22 - Self image / Appearance - sd
All
[1] 0.79
L4
[1] 0.74
L5
[1] 0.89

2Y. SRS22 - Self image / Appearance - mean
All
[1] 3.43
L4
[1] 3.76
L5
[1] 3.46

L4 vs L5 p-value:[1] 0.1454374

2Y. SRS22 - Self image / Appearance - sd
All
[1] 0.93
L4
[1] 0.87
L5
[1] 0.92

5Y. SRS22 - Self image / Appearance - mean
All
[1] 3.36
L4
[1] 3.6
L5
[1] 3.27

L4 vs L5 p-value:[1] 0.1483662

5Y. SRS22 - Self image / Appearance - sd

All

[1] 0.94

L4

[1] 0.91

L5

[1] 0.92

SRS22 - Self image / Appearance tests all

Preop vs 6m p-value

1.036098e-57

Preop vs 2y p-value

5.696223e-48

Preop vs 5y p-value

2.671698e-34

6m vs 2y p-value

0.4441466

2y vs 5y p-value

0.3449467

6w vs 5y p-value

1.159136e-13

SRS22 - Self image / Appearance tests L4

Preop vs 6m p-value

6.275197e-09

Preop vs 2y p-value

1.439882e-08

Preop vs 5y p-value

3.704997e-06

6m vs 2y p-value

0.7320808

2y vs 5y p-value

0.4365176

6m vs 5y p-value

0.5995715

SRS22 - Self image / Appearance tests L5

Preop vs 6m p-value

1.377997e-12

Preop vs 2y p-value
1.651947e-07

Preop vs 5y p-value
2.457011e-05

6m vs 2y p-value
0.2092055

2y vs 5y p-value
0.3972415

6w vs 5y p-value
1.113874e-13

SRS22 - Mental health - mean

All

[1] 3.15

L4

[1] 3.2

L5

[1] 3.22

L4 vs L5 p-value:[1] 0.9285385

SRS22 - Mental health - sd

All

[1] 0.85

L4

[1] 0.82

L5

[1] 0.86

6M. SRS22 - Mental health - mean

All

[1] 3.54

L4

[1] 3.57

L5

[1] 3.56

L4 vs L5 p-value:[1] 0.9320568

6M. SRS22 - Mental health - sd

All

[1] 0.85

L4

[1] 0.81

L5
[1] 0.88

1Y. SRS22 - Mental health - mean
All
[1] 3.59
L4
[1] 3.76
L5
[1] 3.51

L4 vs L5 p-value:[1] 0.2197001

1Y. SRS22 - Mental health - sd
All
[1] 0.82
L4
[1] 0.8
L5
[1] 0.93

2Y. SRS22 - Mental health - mean
All
[1] 3.5
L4
[1] 3.63
L5
[1] 3.57

L4 vs L5 p-value:[1] 0.7500067

2Y. SRS22 - Mental health - sd
All
[1] 0.94
L4
[1] 0.87
L5
[1] 0.85

5Y. SRS22 - Mental health - mean
All
[1] 3.53
L4
[1] 3.67
L5
[1] 3.43

L4 vs L5 p-value:[1] 0.2864843

5Y. SRS22 - Mental health - sd

All

[1] 0.89

L4

[1] 0.95

L5

[1] 0.83

SRS22 - Mental health tests all

Preop vs 6m p-value

8.276809e-09

Preop vs 2y p-value

9.80005e-07

Preop vs 5y p-value

3.57605e-07

6m vs 2y p-value

0.5414079

2y vs 5y p-value

0.6506869

6w vs 5y p-value

7.566897e-14

SRS22 - Mental health tests L4

Preop vs 6m p-value

0.04483037

Preop vs 2y p-value

0.02128555

Preop vs 5y p-value

0.02531553

6m vs 2y p-value

0.7520899

2y vs 5y p-value

0.8667876

6m vs 5y p-value

0.6500717

SRS22 - Mental health tests L5

Preop vs 6m p-value

0.06643112

Preop vs 2y p-value
0.07894434

Preop vs 5y p-value
0.2941027

6m vs 2y p-value
0.9883327

2y vs 5y p-value
0.5049983

6w vs 5y p-value
7.74375e-14

SRS22 - SRS Subtotal score - mean

All

[1] 2.81

L4

[1] 2.98

L5

[1] 2.71

L4 vs L5 p-value:[1] 0.09354685

SRS22 - SRS Subtotal score - sd

All

[1] 0.69

L4

[1] 0.76

L5

[1] 0.65

6M. SRS22 - SRS Subtotal score - mean

All

[1] 3.42

L4

[1] 3.48

L5

[1] 3.37

L4 vs L5 p-value:[1] 0.5144035

6M. SRS22 - SRS Subtotal score - sd

All

[1] 0.69

L4

[1] 0.66

L5
[1] 0.69

1Y. SRS22 - SRS Subtotal score - mean
All
[1] 3.52
L4
[1] 3.77
L5
[1] 3.36

L4 vs L5 p-value:[1] 0.02219664

1Y. SRS22 - SRS Subtotal score - sd
All
[1] 0.73
L4
[1] 0.72
L5
[1] 0.77

2Y. SRS22 - SRS Subtotal score - mean
All
[1] 3.47
L4
[1] 3.72
L5
[1] 3.44

L4 vs L5 p-value:[1] 0.111672

2Y. SRS22 - SRS Subtotal score - sd
All
[1] 0.85
L4
[1] 0.79
L5
[1] 0.78

5Y. SRS22 - SRS Subtotal score - mean
All
[1] 3.41
L4
[1] 3.58
L5
[1] 3.29

L4 vs L5 p-value:[1] 0.1461649

5Y. SRS22 - SRS Subtotal score - sd

All

[1] 0.88

L4

[1] 0.85

L5

[1] 0.76

SRS22 - SRS Subtotal score tests all

Preop vs 6m p-value

5.666437e-27

Preop vs 2y p-value

2.051315e-25

Preop vs 5y p-value

1.769115e-17

6m vs 2y p-value

0.4145993

2y vs 5y p-value

0.4257375

6w vs 5y p-value

1.013087e-13

SRS22 - SRS Subtotal score tests L4

Preop vs 6m p-value

0.002451528

Preop vs 2y p-value

3.60342e-05

Preop vs 5y p-value

0.001881916

6m vs 2y p-value

0.1367817

2y vs 5y p-value

0.4502338

6m vs 5y p-value

0.5740497

SRS22 - SRS Subtotal score tests L5

Preop vs 6m p-value

2.169867e-06

Preop vs 2y p-value
4.559858e-05

Preop vs 5y p-value
0.001364516

6m vs 2y p-value
0.7999314

2y vs 5y p-value
0.4366109

6w vs 5y p-value
1.159859e-13

SF36 - PCS - mean

All

[1] 36.37

L4

[1] 40.25

L5

[1] 34.85

L4 vs L5 p-value:[1] 0.008001579

SF36 - PCS - sd

All

[1] 9.34

L4

[1] 9.03

L5

[1] 8.59

6M. SF36 - PCS - mean

All

[1] 40.33

L4

[1] 42.97

L5

[1] 38.69

L4 vs L5 p-value:[1] 0.02049346

6M. SF36 - PCS - sd

All

[1] 9.02

L4

[1] 7.65


```
L5
[1] 7.54
```

```
1Y. SF36 - PCS - mean
All
[1] 41.91
L4
[1] 46.18
L5
[1] 39.67
```

```
L4 vs L5 p-value:[1] 0.005079299
```

```
1Y. SF36 - PCS - sd
All
[1] 9.91
L4
[1] 9.57
L5
[1] 9.76
```

```
2Y. SF36 - PCS - mean
All
[1] 41.89
L4
[1] 45.34
L5
[1] 41.14
```

```
L4 vs L5 p-value:[1] 0.05009991
```

```
2Y. SF36 - PCS - sd
All
[1] 10.38
L4
[1] 10.01
L5
[1] 8.77
```

```
5Y. SF36 - PCS - mean
All
[1] 41.29
L4
[1] 43.55
L5
[1] 40.62
```

L4 vs L5 p-value:[1] 0.185434

5Y. SF36 - PCS - sd

All

[1] 11.28

L4

[1] 9.06

L5

[1] 8.38

SF36 - PCS tests all

Preop vs 6m p-value

7.448317e-08

Preop vs 2y p-value

3.406167e-12

Preop vs 5y p-value

7.205896e-08

6m vs 2y p-value

0.04488095

2y vs 5y p-value

0.5181065

6w vs 5y p-value

2.220629e-54

SF36 - PCS tests L4

Preop vs 6m p-value

0.154334

Preop vs 2y p-value

0.01781341

Preop vs 5y p-value

0.1206343

6m vs 2y p-value

0.2403903

2y vs 5y p-value

0.417447

6m vs 5y p-value

0.7736433

SF36 - PCS tests L5

Preop vs 6m p-value

4.836783e-05

Preop vs 2y p-value
0.002306935

Preop vs 5y p-value
0.00697263

6m vs 2y p-value
0.3381004

2y vs 5y p-value
0.8072016

6w vs 5y p-value
3.339344e-32

SF36 - MCS - mean

All

[1] 42.71

L4

[1] 41.89

L5

[1] 44.91

L4 vs L5 p-value:[1] 0.2671804

SF36 - MCS - sd

All

[1] 11.73

L4

[1] 11.8

L5

[1] 12.21

6M. SF36 - MCS - mean

All

[1] 46.87

L4

[1] 48.24

L5

[1] 47.58

L4 vs L5 p-value:[1] 0.8190889

6M. SF36 - MCS - sd

All

[1] 11.91

L4

[1] 11.55

L5
[1] 12.44

1Y. SF36 - MCS - mean
All
[1] 47.37
L4
[1] 50.8
L5
[1] 47

L4 vs L5 p-value:[1] 0.1710523

1Y. SF36 - MCS - sd
All
[1] 11.5
L4
[1] 9.86
L5
[1] 13.26

2Y. SF36 - MCS - mean
All
[1] 47.01
L4
[1] 49.38
L5
[1] 49.08

L4 vs L5 p-value:[1] 0.905938

2Y. SF36 - MCS - sd
All
[1] 12.04
L4
[1] 10.33
L5
[1] 12.11

5Y. SF36 - MCS - mean
All
[1] 47.46
L4
[1] 50.28
L5
[1] 47.63

L4 vs L5 p-value:[1] 0.3406633

5Y. SF36 - MCS - sd

All

[1] 11.35

L4

[1] 10.39

L5

[1] 11.5

SF36 - MCS tests all

Preop vs 6m p-value

1.116871e-05

Preop vs 2y p-value

5.388458e-06

Preop vs 5y p-value

1.783548e-06

6m vs 2y p-value

0.8787294

2y vs 5y p-value

0.6565847

6w vs 5y p-value

1.791352e-58

SF36 - MCS tests L4

Preop vs 6m p-value

0.0188427

Preop vs 2y p-value

0.003017321

Preop vs 5y p-value

0.001627255

6m vs 2y p-value

0.646381

2y vs 5y p-value

0.7112284

6m vs 5y p-value

0.4356675

SF36 - MCS tests L5

Preop vs 6m p-value

0.229428

Preop vs 2y p-value
0.1391076

Preop vs 5y p-value
0.3491436

6m vs 2y p-value
0.757567

2y vs 5y p-value
0.6157796

6w vs 5y p-value
2.171426e-26

Surgery

Total Operative Blood Loss st1+st2+st3 - mean

All

[1] 1541.9

L4

[1] 1102.82

L5

[1] 1356.53

L4 vs L5 p-value:[1] 0.2336043

Total Operative Blood Loss st1+st2+st3 - sd

All

[1] 1257.93

L4

[1] 778.62

L5

[1] 1021.54

Total surgical time st1+st2+st3 - mean

All

[1] 321.94

L4

[1] 268.21

L5

[1] 352.08

L4 vs L5 p-value:[1] 0.03805626

Total surgical time st1+st2+st3 - sd

All

[1] 163.2
L4
[1] 135.05
L5
[1] 210.24

Number of Posterior Instrumented Levels - mean
All
[1] 9.72
L4
[1] 9.33
L5
[1] 8.62

L4 vs L5 p-value:[1] 0.4527274

Number of Posterior Instrumented Levels - sd
All
[1] 4.01
L4
[1] 3.96
L5
[1] 4.55

Pelvic fixation - table
All
variable
No Yes
214 134
L4
variable
No
42
L5
variable
No
39

Pelvic fixation - proportion
All
variable
No Yes
0.6149425 0.3850575
L4
variable
No
1
L5
variable

No
1

Surgical Approach - table

All

variable

Anterior-Posterior	Posterior
4	329
Posterior-Anterior	Posterior-Posterior
11	3

Posterior-Posterior-Anterior
1

L4

variable

Posterior

42

L5

variable

Anterior-Posterior	Posterior	Posterior-Posterior
1	37	1

Surgical Approach - proportion

All

variable

Anterior-Posterior	Posterior
0.011494253	0.945402299
Posterior-Anterior	Posterior-Posterior
0.031609195	0.008620690

Posterior-Posterior-Anterior
0.002873563

L4

variable

Posterior

1

L5

variable

Anterior-Posterior	Posterior	Posterior-Posterior
0.02564103	0.94871795	0.02564103

Number of Interbody Fusions - mean

All

[1] 0.85

L4

[1] 0.31

L5

[1] 1.03

L4 vs L5 p-value:[1] 0.004462937

Number of Interbody Fusions - sd

All

[1] 1.18

L4

[1] 0.6

L5

[1] 1.39

Decompression - table

All

variable

No Yes

261 87

L4

variable

No Yes

33 9

L5

variable

No Yes

26 13

Decompression - proportion

All

variable

No Yes

0.75 0.25

L4

variable

No Yes

0.7857143 0.2142857

L5

variable

No Yes

0.6666667 0.3333333

Interbody Fusion - table

All

variable

No Yes

193 155

L4

variable

No Yes

32 10

L5

variable

No Yes

19 20

Interbody Fusion - proportion

All

variable

No	Yes
----	-----

0.5545977	0.4454023
-----------	-----------

L4

variable

No	Yes
----	-----

0.7619048	0.2380952
-----------	-----------

L5

variable

No	Yes
----	-----

0.4871795	0.5128205
-----------	-----------

Osteotomy - table

All

variable

No	Yes
----	-----

178	170
-----	-----

L4

variable

No	Yes
----	-----

23	19
----	----

L5

variable

No	Yes
----	-----

25	14
----	----

Osteotomy - proportion

All

variable

No	Yes
----	-----

0.5114943	0.4885057
-----------	-----------

L4

variable

No	Yes
----	-----

0.547619	0.452381
----------	----------

L5

variable

No	Yes
----	-----

0.6410256	0.3589744
-----------	-----------

3C0 - table

All

variable

No	Yes
----	-----

295	53
-----	----

L4

variable

No	Yes
----	-----

```

37 5
L5
variable
  No Yes
33 6

3C0 - proportion
All
variable
  No Yes
0.8477011 0.1522989
L4
variable
  No Yes
0.8809524 0.1190476
L5
variable
  No Yes
0.8461538 0.1538462

```

Before 2Y

Reinterventions

```

group reiqs patients total
1: all 143 80 348
2: L4 3 3 42
3: L5 19 10 39

p_val_1_total p_val_2_total p_val_1_2
1 0.02997251 0.8634625 0.04961024

```

Impacts

```

Complication Impact all_num all_patients L4_num L4_patients L5_num
1: 0 1 1 0 0 0
2: Adverse Event 2 2 0 0 1
3: Major Complication 166 91 4 3 23
4: Minor Complication 170 119 7 7 18
L5_patients total_all L4 L5 p_val_1_total p_val_2_total p_val_1_2
1: 0 348 42 39 1.00000000 1.00000000 NaN
2: 1 348 42 39 1.00000000 0.7035001 0.97025108
3: 12 348 42 39 0.01142290 0.6686503 0.01432929
4: 14 348 42 39 0.03400885 0.9725162 0.08549423

```

Categories

```

Category of the complication all_num all_patients L4_num L4_patients
1: Central neurologic complications 1 1 0 0
2: Iatrogenic 16 16 1 1

```

3:	Infectious complications	29	25	2	2
4:	Mechanical complications	141	99	4	4
5:	Other complications	101	65	3	3
6:	Pain	11	10	0	0
7:	Peripheral neurologic complications	40	35	1	1

	L5_num	L5_patients	total_all	L4	L5	p_val_1_total	p_val_2_total	p_val_1_2
1:	0	0	348	42	39	1.00000000	1.00000000	NaN
2:	3	3	348	42	39	0.79129930	0.6473799	0.55572674
3:	7	5	348	42	39	0.79305213	0.3510713	0.37131720
4:	15	11	348	42	39	0.01458003	1.00000000	0.06059619
5:	11	9	348	42	39	0.09977667	0.6543683	0.08837420
6:	2	1	348	42	39	0.55102623	1.00000000	0.97025108
7:	4	4	348	42	39	0.17980406	1.00000000	0.31270068

Categories Major Complications

	Category of the complication	all_num	all_patients	L4_num	L4_patients
1:	Central neurologic complications	1	1	0	0
2:	Iatrogenic	13	13	1	1
3:	Infectious complications	24	20	1	1
4:	Mechanical complications	81	57	0	0
5:	Other complications	30	23	1	1
6:	Pain	6	5	0	0
7:	Peripheral neurologic complications	11	11	1	1

	L5_num	L5_patients	total_all	L4	L5	p_val_1_total	p_val_2_total	p_val_1_2
1:	0	0	348	42	39	1.000000000	1.00000000	NaN
2:	2	2	348	42	39	0.994610877	1.00000000	0.94784205
3:	6	4	348	42	39	0.581546646	0.4489724	0.31270068
4:	9	7	348	42	39	0.009127102	0.9817283	0.01325498
5:	1	1	348	42	39	0.460972955	0.5201249	1.00000000
6:	2	1	348	42	39	0.955464299	1.00000000	0.97025108
7:	3	3	348	42	39	1.000000000	0.3246503	0.55572674

From 2Y - 5Y

Reinterventions

	group	reiqs	patients	total
1:	all	55	37	348
2:	L4	3	3	42
3:	L5	8	5	39

	p_val_1_total	p_val_2_total	p_val_1_2
1	0.6636531	0.8845601	0.6290236

Impacts

	Complication Impact	all_num	all_patients	L4_num	L4_patients	L5_num
1:	Adverse Event	1	1	0	0	0
2:	Major Complication	59	40	3	3	9

3:	Minor Complication	30	29	1	1	1	
	L5_patients	total_all	L4	L5	p_val_1_total	p_val_2_total	p_val_1_2
1:	0	348	42	39	1.0000000	1.0000000	NaN
2:	6	348	42	39	0.5553676	0.6519918	0.409074
3:	1	348	42	39	0.2886960	0.3361080	1.000000

Categories

	Category of the complication	all_num	all_patients	L4_num	L4_patients			
1:	Iatrogenic	3	3	0	0			
2:	Infectious complications	3	2	1	1			
3:	Mechanical complications	75	57	3	2			
4:	Other complications	1	1	0	0			
5:	Pain	6	6	0	0			
6:	Peripheral neurologic complications	2	1	0	0			
	L5_num	L5_patients	total_all	L4	L5	p_val_1_total	p_val_2_total	p_val_1_2
1:	0	0	348	42	39	1.00000000	1.0000000	NaN
2:	2	1	348	42	39	0.74080389	0.7035001	1.0000000
3:	7	6	348	42	39	0.07894177	1.0000000	0.2192750
4:	0	0	348	42	39	1.00000000	1.0000000	NaN
5:	1	1	348	42	39	0.84619340	1.0000000	0.9702511
6:	0	0	348	42	39	1.00000000	1.0000000	NaN

Categories Major Complications

	Category of the complication	all_num	all_patients	L4_num	L4_patients			
1:	Iatrogenic	3	3	0	0			
2:	Infectious complications	3	2	1	1			
3:	Mechanical complications	45	32	2	2			
4:	Other complications	1	1	0	0			
5:	Pain	5	5	0	0			
6:	Peripheral neurologic complications	2	1	0	0			
	L5_num	L5_patients	total_all	L4	L5	p_val_1_total	p_val_2_total	p_val_1_2
1:	0	0	348	42	39	1.0000000	1.0000000	NaN
2:	2	1	348	42	39	0.7408039	0.7035001	1.0000000
3:	6	5	348	42	39	0.5012068	0.6578105	0.3713172
4:	0	0	348	42	39	1.0000000	1.0000000	NaN
5:	1	1	348	42	39	0.9554643	1.0000000	0.9702511
6:	0	0	348	42	39	1.0000000	1.0000000	NaN

Before 5Y

Reinterventions

	group	reiqs	patients	total
1:	all	198	101	348
2:	L4	6	6	42
3:	L5	27	12	39
	p_val_1_total	p_val_2_total	p_val_1_2	
1	0.06592413	0.9667017	0.1296407	

Impacts

	Complication	Impact	all_num	all_patients	L4_num	L4_patients	L5_num
1:		0	1	1	0	0	0
2:	Adverse Event		3	3	0	0	1
3:	Major Complication		225	109	7	6	32
4:	Minor Complication		200	134	8	8	19
	L5_patients	total_all	L4	L5	p_val_1_total	p_val_2_total	p_val_1_2
1:	0	348	42	39	1.00000000	1.00000000	NaN
2:	1	348	42	39	1.00000000	0.8714760	0.9702511
3:	14	348	42	39	0.03502475	0.6887118	0.0459426
4:	14	348	42	39	0.02111933	0.8854176	0.1460626

Categories

	Category of the complication	all_num	all_patients	L4_num	L4_patients			
1:	Central neurologic complications	1	1	0	0			
2:	Iatrogenic	19	19	1	1			
3:	Infectious complications	32	27	3	3			
4:	Mechanical complications	216	131	7	6			
5:	Other complications	102	66	3	3			
6:	Pain	17	16	0	0			
7:	Peripheral neurologic complications	42	35	1	1			
	L5_num	L5_patients	total_all	L4	L5	p_val_1_total	p_val_2_total	p_val_1_2
1:	0	0	348	42	39	1.000000000	1.0000000	NaN
2:	3	3	348	42	39	0.628230034	0.8365229	0.55572674
3:	9	6	348	42	39	1.000000000	0.1886083	0.40907399
4:	22	13	348	42	39	0.004737666	0.7237798	0.07856588
5:	11	9	348	42	39	0.092450867	0.6874134	0.08837420
6:	3	2	348	42	39	0.313810922	1.0000000	0.44155696
7:	4	4	348	42	39	0.179804061	1.0000000	0.31270068

Categories Major Complications

	Category of the complication	all_num	all_patients	L4_num	L4_patients			
1:	Central neurologic complications	1	1	0	0			
2:	Iatrogenic	16	16	1	1			
3:	Infectious complications	27	22	2	2			
4:	Mechanical complications	126	77	2	2			
5:	Other complications	31	24	1	1			
6:	Pain	11	10	0	0			
7:	Peripheral neurologic complications	13	11	1	1			
	L5_num	L5_patients	total_all	L4	L5	p_val_1_total	p_val_2_total	p_val_1_2
1:	0	0	348	42	39	1.00000000	1.00000000	NaN
2:	2	2	348	42	39	0.79129930	1.00000000	0.94784205
3:	8	5	348	42	39	0.95413446	0.2383003	0.37131720
4:	15	10	348	42	39	0.01461731	0.7669829	0.01980564
5:	1	1	348	42	39	0.42652041	0.4837680	1.00000000
6:	3	2	348	42	39	0.55102623	0.7770302	0.44155696
7:	3	3	348	42	39	1.00000000	0.3246503	0.55572674