

## Pelvis UT vs Pelvis LT

Initial Patients: 372

With Posterior Instrumented Fusion: 348

Posterior Instrumental Fusion is Iliac: 134

- Upper Thoracic (UT): T1-T9-Pelvis
- Lower Thoracic (LT): T10-T12- Iliac

```
thoracic_type  N
1:             LT 88
2:             UT 28
3:             <NA> 18
```

P-value ASA 1 UT vs LT

```
treatment asa_1  N
1:         LT    17 88
2:         UT     1 28
```

[1] 0.08823184

P-value Prior Spine Surgery Yes UT vs LT

```
treatment prior_yes  N
1:         LT        36 88
2:         UT         6 28
```

[1] 0.1005058

### Demographics

Age - mean

All

[1] 63.73

UT

[1] 60.96

LT

[1] 65.39

UT vs LT p-value:[1] 0.04294713

Gender - table

All

variable

Female	Male
114	20

UT

variable

Female	Male
26	2

LT

variable

Female	Male
74	14

Gender - proportion

All

variable

Female	Male
0.8507463	0.1492537

UT

variable

Female	Male
0.92857143	0.07142857

LT

variable

Female	Male
0.8409091	0.1590909

Prior Spine Surgery - table

All

variable

No	Yes
80	54

UT

variable

No	Yes
22	6

LT

variable

No	Yes
52	36

Prior Spine Surgery - proportion

All

variable

No	Yes
0.5970149	0.4029851

UT

variable

No	Yes
0.7857143	0.2142857

```

LT
variable
      No      Yes
0.5909091 0.4090909

```

```

Height (cm)_First Visit - mean
All
[1] 160.77
UT
[1] 158.46
LT
[1] 160.38

```

```

UT vs LT p-value:[1] 0.3058912

```

```

Weight (kgs)_First Visit - mean
All
[1] 66.59
UT
[1] 62.36
LT
[1] 67.06

```

```

UT vs LT p-value:[1] 0.02762383

```

```

BMI_First Visit - mean
All
[1] 25.75
UT
[1] 24.93
LT
[1] 26.08

```

```

UT vs LT p-value:[1] 0.1734408

```

```

ASA classification - table
All
variable
  1  2  3
23 93 18
UT
variable
  1  2  3

```

```

1 23 4
LT
variable
1 2 3
17 62 9

```

#### ASA classification - proportion

All

variable

```

      1      2      3
0.1716418 0.6940299 0.1343284

```

UT

variable

```

      1      2      3
0.03571429 0.82142857 0.14285714

```

LT

variable

```

      1      2      3
0.1931818 0.7045455 0.1022727

```

#### Tobacco use\_First Visit - table

All

variable

```

Current      Ex Non-User
      23      31      80

```

UT

variable

```

Current      Ex Non-User
      5      8      15

```

LT

variable

```

Current      Ex Non-User
      14      18      56

```

#### Tobacco use\_First Visit - proportion

All

variable

```

Current      Ex Non-User
0.1716418 0.2313433 0.5970149

```

UT

variable

```

Current      Ex Non-User
0.1785714 0.2857143 0.5357143

```

LT

variable

```

Current      Ex Non-User
0.1590909 0.2045455 0.6363636

```

#### ESSG Diagnosis - table

All

variable	Congenital	Degenerative	Failed-back
	3	65	13
	Idiopathic	Neuromuscular	Other: spondylolisthesis
	43	3	1
	Post-traumatic	Scheuermann	Syndromic
	4	1	1

UT

variable	Idiopathic	Scheuermann	Syndromic
Degenerative	9	17	1
			1

LT

variable	Congenital	Degenerative	Failed-back
	3	48	10
	Idiopathic	Neuromuscular	Other: spondylolisthesis
	20	2	1
	Post-traumatic		
	4		

ESSG Diagnosis - proportion

All

variable	Congenital	Degenerative	Failed-back
	0.022388060	0.485074627	0.097014925
	Idiopathic	Neuromuscular	Other: spondylolisthesis
	0.320895522	0.022388060	0.007462687
	Post-traumatic	Scheuermann	Syndromic
	0.029850746	0.007462687	0.007462687

UT

variable	Idiopathic	Scheuermann	Syndromic
Degenerative	0.32142857	0.60714286	0.03571429
			0.03571429

LT

variable	Congenital	Degenerative	Failed-back
	0.03409091	0.54545455	0.11363636
	Idiopathic	Neuromuscular	Other: spondylolisthesis
	0.22727273	0.02272727	0.01136364
	Post-traumatic		
	0.04545455		

## Radiology

Static Major curve Cobb angle - mean

All

[1] 39.33

UT

[1] 52.96

LT

[1] 36.1

UT vs LT p-value:[1] 0.0004160785

6W. Static Major curve Cobb angle - mean

All

[1] 21.54

UT

[1] 27.08

LT

[1] 19.02

UT vs LT p-value:[1] 0.01053276

6M. Static Major curve Cobb angle - mean

All

[1] 20.21

UT

[1] 25.92

LT

[1] 18.26

UT vs LT p-value:[1] 0.006989493

1Y. Static Major curve Cobb angle - mean

All

[1] 18.72

UT

[1] 25.23

LT

[1] 16

UT vs LT p-value:[1] 0.001728984

2Y. Static Major curve Cobb angle - mean

All

[1] 18.53

UT

[1] 24.2

LT

[1] 15.63

UT vs LT p-value:[1] 0.006279107

5Y. Static Major curve Cobb angle - mean

All

[1] 21

UT

[1] 24.95

LT

[1] 19.74

UT vs LT p-value:[1] 0.1741924

Static Major curve Cobb angle tests all

Preop vs 6w p-value

1.151766e-12

Preop vs 2y p-value

8.671057e-17

Preop vs 5y p-value

4.326229e-11

6w vs 2y p-value

0.1171427

2y vs 5y p-value

0.2674977

6w vs 5y p-value

0.8108428

Static Major curve Cobb angle tests UT

Preop vs 6w p-value

1.18949e-06

Preop vs 2y p-value

1.744657e-07

Preop vs 5y p-value

7.792054e-07

6w vs 2y p-value

0.4419127

2y vs 5y p-value

0.8523635

6w vs 5y p-value

0.5916367

Static Major curve Cobb angle tests LT

Preop vs 6w p-value  
2.258326e-09

Preop vs 2y p-value  
1.377424e-13

Preop vs 5y p-value  
9.672582e-07

6w vs 2y p-value  
0.09571487

2y vs 5y p-value  
0.1199411

6w vs 5y p-value  
0.7991171

Coronal Balance (C7PL to CSVL) - mean

All

[1] 28.49

UT

[1] 34.48

LT

[1] 28.39

UT vs LT p-value:[1] 0.2859805

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

All

[1] 20.86

UT

[1] 21.69

LT

[1] 21.49

UT vs LT p-value:[1] 0.9534163

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

All

[1] 22.34

UT

[1] 21.91

LT

[1] 23.68

UT vs LT p-value:[1] 0.6654379



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

All

[1] 20.98

UT

[1] 21.43

LT

[1] 21.99

UT vs LT p-value:[1] 0.8863372

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

All

[1] 21.75

UT

[1] 22.47

LT

[1] 21.99

UT vs LT p-value:[1] 0.9098506

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

All

[1] 25.42

UT

[1] 25.32

LT

[1] 26.46

UT vs LT p-value:[1] 0.836756

Coronal Balance (C7PL to CSVL) tests all

Preop vs 6w p-value

0.003060812

Preop vs 2y p-value

0.01432238

Preop vs 5y p-value

0.3517997

6w vs 2y p-value

0.6877176

2y vs 5y p-value  
0.2263993

6w vs 5y p-value  
0.1133042

Coronal Balance (C7PL to CSVL) tests UT  
Preop vs 6w p-value  
0.0333438

Preop vs 2y p-value  
0.0581975

Preop vs 5y p-value  
0.1747362

6w vs 2y p-value  
0.8703819

2y vs 5y p-value  
0.6216213

6w vs 5y p-value  
0.5002307

Coronal Balance (C7PL to CSVL) tests LT  
Preop vs 6w p-value  
0.03141798

Preop vs 2y p-value  
0.05966597

Preop vs 5y p-value  
0.6460202

6w vs 2y p-value  
0.8543034

2y vs 5y p-value  
0.2515729

6w vs 5y p-value  
0.1833317

Sagittal Balance - mean  
All  
[1] 80.42  
UT  
[1] 71.92  
LT  
[1] 82.23

UT vs LT p-value:[1] 0.4305199

6W. Sagittal Balance - mean

All

[1] 26.18

UT

[1] 15.2

LT

[1] 27.78

UT vs LT p-value:[1] 0.120815

6M. Sagittal Balance - mean

All

[1] 22.61

UT

[1] 4.74

LT

[1] 29.88

UT vs LT p-value:[1] 0.008062488

1Y. Sagittal Balance - mean

All

[1] 31.69

UT

[1] 19.87

LT

[1] 35.94

UT vs LT p-value:[1] 0.164856

2Y. Sagittal Balance - mean

All

[1] 41.77

UT

[1] 28.98

LT

[1] 45.55

UT vs LT p-value:[1] 0.1567454

5Y. Sagittal Balance - mean

All

[1] 47.77

UT

[1] 33.21

LT

[1] 55.87

UT vs LT p-value:[1] 0.1288258

Sagittal Balance tests all

Preop vs 6w p-value

3.105499e-15

Preop vs 2y p-value

1.315205e-07

Preop vs 5y p-value

0.0001733978

6w vs 2y p-value

0.004450738

2y vs 5y p-value

0.4445516

6w vs 5y p-value

0.003187024

Sagittal Balance tests UT

Preop vs 6w p-value

6.644975e-05

Preop vs 2y p-value

0.005615203

Preop vs 5y p-value

0.02226426

6w vs 2y p-value

0.2684233

2y vs 5y p-value

0.791251

6w vs 5y p-value

0.2085758

Sagittal Balance tests LT

Preop vs 6w p-value  
9.537461e-10

Preop vs 2y p-value  
6.963742e-05

Preop vs 5y p-value  
0.01578677

6w vs 2y p-value  
0.008114182

2y vs 5y p-value  
0.2825234

6w vs 5y p-value  
0.002359206

Sagittal T2-T5 - mean

All

[1] 9.88

UT

[1] 10.02

LT

[1] 9.83

UT vs LT p-value:[1] 0.9356263

6W. Sagittal T2-T5 - mean

All

[1] 13.72

UT

[1] 17.9

LT

[1] 12.35

UT vs LT p-value:[1] 0.00659933

6M. Sagittal T2-T5 - mean

All

[1] 13.06

UT

[1] 20.64

LT

[1] 10.92

UT vs LT p-value:[1] 0.000171518

1Y. Sagittal T2-T5 - mean

All

[1] 13.17

UT

[1] 21.46

LT

[1] 10.45

UT vs LT p-value:[1] 0.0002741557

2Y. Sagittal T2-T5 - mean

All

[1] 13.69

UT

[1] 22.68

LT

[1] 10.97

UT vs LT p-value:[1] 6.290939e-05

5Y. Sagittal T2-T5 - mean

All

[1] 16.7

UT

[1] 24.89

LT

[1] 13.25

UT vs LT p-value:[1] 0.008589489

Sagittal T2-T5 tests all

Preop vs 6w p-value

0.0005578936

Preop vs 2y p-value

0.002088157

Preop vs 5y p-value

0.0001421992

6w vs 2y p-value

0.9786831

2y vs 5y p-value  
0.1006742

6w vs 5y p-value  
0.08985838

Sagittal T2-T5 tests UT  
Preop vs 6w p-value  
0.007385498

Preop vs 2y p-value  
0.0003160775

Preop vs 5y p-value  
0.002078364

6w vs 2y p-value  
0.1062198

2y vs 5y p-value  
0.624251

6w vs 5y p-value  
0.1045839

Sagittal T2-T5 tests LT  
Preop vs 6w p-value  
0.0531028

Preop vs 2y p-value  
0.3701078

Preop vs 5y p-value  
0.04233767

6w vs 2y p-value  
0.3173948

2y vs 5y p-value  
0.1890382

6w vs 5y p-value  
0.6059194

Sagittal T5-T12 - mean  
All  
[1] 29.15  
UT  
[1] 41.5  
LT  
[1] 27.07

UT vs LT p-value:[1] 0.001942375

6W. Sagittal T5-T12 - mean

All

[1] 35.21

UT

[1] 33.69

LT

[1] 37.33

UT vs LT p-value:[1] 0.1527764

6M. Sagittal T5-T12 - mean

All

[1] 37.69

UT

[1] 32.67

LT

[1] 40.73

UT vs LT p-value:[1] 0.00447505

1Y. Sagittal T5-T12 - mean

All

[1] 37.89

UT

[1] 33.83

LT

[1] 41.81

UT vs LT p-value:[1] 0.003571498

2Y. Sagittal T5-T12 - mean

All

[1] 38.81

UT

[1] 35.22

LT

[1] 42.53

UT vs LT p-value:[1] 0.01072185



5Y. Sagittal T5-T12 - mean

All

[1] 42.88

UT

[1] 35.42

LT

[1] 47.33

UT vs LT p-value:[1] 0.006292739

Sagittal T5-T12 tests all

Preop vs 6w p-value

0.002492656

Preop vs 2y p-value

3.822721e-06

Preop vs 5y p-value

1.665164e-07

6w vs 2y p-value

0.04786855

2y vs 5y p-value

0.08775496

6w vs 5y p-value

0.001204054

Sagittal T5-T12 tests UT

Preop vs 6w p-value

0.08933467

Preop vs 2y p-value

0.1793944

Preop vs 5y p-value

0.2561773

6w vs 2y p-value

0.6156019

2y vs 5y p-value

0.9629512

6w vs 5y p-value

0.6696198

Sagittal T5-T12 tests LT

Preop vs 6w p-value  
5.279388e-06

Preop vs 2y p-value  
1.084441e-10

Preop vs 5y p-value  
3.718068e-11

6w vs 2y p-value  
0.01758205

2y vs 5y p-value  
0.07630014

6w vs 5y p-value  
0.0002731379

Sagittal T2-T12 - mean

All

[1] 35.22

UT

[1] 46.64

LT

[1] 32.94

UT vs LT p-value:[1] 0.003279118

6W. Sagittal T2-T12 - mean

All

[1] 44.77

UT

[1] 45.85

LT

[1] 45.86

UT vs LT p-value:[1] 0.9963678

6M. Sagittal T2-T12 - mean

All

[1] 48.38

UT

[1] 51.27

LT

[1] 49.26

UT vs LT p-value:[1] 0.5771984

1Y. Sagittal T2-T12 - mean

All

[1] 47.82

UT

[1] 51.9

LT

[1] 49.1

UT vs LT p-value:[1] 0.4320431

2Y. Sagittal T2-T12 - mean

All

[1] 47.67

UT

[1] 53.06

LT

[1] 48.33

UT vs LT p-value:[1] 0.209763

5Y. Sagittal T2-T12 - mean

All

[1] 53.27

UT

[1] 54.52

LT

[1] 53.82

UT vs LT p-value:[1] 0.8879055

Sagittal T2-T12 tests all

Preop vs 6w p-value

4.422467e-06

Preop vs 2y p-value

3.302942e-08

Preop vs 5y p-value

1.063313e-10

6w vs 2y p-value

0.146034

2y vs 5y p-value  
0.03006078

6w vs 5y p-value  
0.0006541637

Sagittal T2-T12 tests UT  
Preop vs 6w p-value  
0.8674158

Preop vs 2y p-value  
0.2206101

Preop vs 5y p-value  
0.1885826

6w vs 2y p-value  
0.08635265

2y vs 5y p-value  
0.7907104

6w vs 5y p-value  
0.09259087

Sagittal T2-T12 tests LT  
Preop vs 6w p-value  
6.30192e-08

Preop vs 2y p-value  
2.134456e-09

Preop vs 5y p-value  
2.143305e-10

6w vs 2y p-value  
0.2834428

2y vs 5y p-value  
0.06370308

6w vs 5y p-value  
0.005795335

Lordosis (top of L1-S1) - mean  
All  
[1] -33.34  
UT  
[1] -39.69  
LT  
[1] -32.5

UT vs LT p-value:[1] 0.07012955

6W. Lordosis (top of L1-S1) - mean  
All  
[1] -53.19  
UT  
[1] -53.05  
LT  
[1] -54.67

UT vs LT p-value:[1] 0.5816813

6M. Lordosis (top of L1-S1) - mean  
All  
[1] -51.8  
UT  
[1] -50.86  
LT  
[1] -53.74

UT vs LT p-value:[1] 0.2514692

1Y. Lordosis (top of L1-S1) - mean  
All  
[1] -50.21  
UT  
[1] -50.42  
LT  
[1] -51.61

UT vs LT p-value:[1] 0.6657483

2Y. Lordosis (top of L1-S1) - mean  
All  
[1] -49.82  
UT  
[1] -49.41  
LT  
[1] -51.72

UT vs LT p-value:[1] 0.4030065

5Y. Lordosis (top of L1-S1) - mean  
All  
[1] -50.31  
UT  
[1] -48.32  
LT  
[1] -52.06

UT vs LT p-value:[1] 0.2917341

Lordosis (top of L1-S1) tests all  
Preop vs 6w p-value  
1.606492e-19

Preop vs 2y p-value  
3.105112e-14

Preop vs 5y p-value  
3.672314e-12

6w vs 2y p-value  
0.05570628

2y vs 5y p-value  
0.8104892

6w vs 5y p-value  
0.1567381

Lordosis (top of L1-S1) tests UT  
Preop vs 6w p-value  
0.002497992

Preop vs 2y p-value  
0.02093101

Preop vs 5y p-value  
0.05800589

6w vs 2y p-value  
0.2903952

2y vs 5y p-value  
0.7684313

6w vs 5y p-value  
0.2241984

Lordosis (top of L1-S1) tests LT

Preop vs 6w p-value  
3.692027e-16

Preop vs 2y p-value  
4.976514e-13

Preop vs 5y p-value  
9.93738e-11

6w vs 2y p-value  
0.161436

2y vs 5y p-value  
0.8904851

6w vs 5y p-value  
0.2907233

Pelvic Incidence - mean

All

[1] 57.33

UT

[1] 54.02

LT

[1] 58.56

UT vs LT p-value:[1] 0.106867

6W. Pelvic Incidence - mean

All

[1] 57.51

UT

[1] 53.13

LT

[1] 58.98

UT vs LT p-value:[1] 0.040185

6M. Pelvic Incidence - mean

All

[1] 57.44

UT

[1] 53.54

LT

[1] 58.84

UT vs LT p-value:[1] 0.06714908

1Y. Pelvic Incidence - mean

All

[1] 56.98

UT

[1] 53.83

LT

[1] 58.12

UT vs LT p-value:[1] 0.1374643

2Y. Pelvic Incidence - mean

All

[1] 56.87

UT

[1] 52.89

LT

[1] 58.33

UT vs LT p-value:[1] 0.05686181

5Y. Pelvic Incidence - mean

All

[1] 57.15

UT

[1] 54.52

LT

[1] 58.8

UT vs LT p-value:[1] 0.1946151

Pelvic Incidence tests all

Preop vs 6w p-value

0.9118388

Preop vs 2y p-value

0.7749771

Preop vs 5y p-value

0.9214629

6w vs 2y p-value

0.6942759



2y vs 5y p-value  
0.8833555

6w vs 5y p-value  
0.8474302

Pelvic Incidence tests UT  
Preop vs 6w p-value  
0.7923856

Preop vs 2y p-value  
0.7380676

Preop vs 5y p-value  
0.8886549

6w vs 2y p-value  
0.9437257

2y vs 5y p-value  
0.6493242

6w vs 5y p-value  
0.6983424

Pelvic Incidence tests LT  
Preop vs 6w p-value  
0.8374468

Preop vs 2y p-value  
0.909038

Preop vs 5y p-value  
0.9194975

6w vs 2y p-value  
0.7519564

2y vs 5y p-value  
0.8430841

6w vs 5y p-value  
0.9407994

Pelvic Tilt - mean  
All  
[1] 28.14  
UT  
[1] 26.84  
LT  
[1] 28.57

UT vs LT p-value:[1] 0.4567529

6W. Pelvic Tilt - mean

All

[1] 20.34

UT

[1] 16.72

LT

[1] 21.11

UT vs LT p-value:[1] 0.04629138

6M. Pelvic Tilt - mean

All

[1] 23.21

UT

[1] 20.64

LT

[1] 23.73

UT vs LT p-value:[1] 0.1336049

1Y. Pelvic Tilt - mean

All

[1] 23.64

UT

[1] 20.98

LT

[1] 24.6

UT vs LT p-value:[1] 0.1267194

2Y. Pelvic Tilt - mean

All

[1] 23.31

UT

[1] 21.29

LT

[1] 24.03

UT vs LT p-value:[1] 0.1793761

5Y. Pelvic Tilt - mean

All

[1] 24.81

UT

[1] 23.42

LT

[1] 25.52

UT vs LT p-value:[1] 0.3873846

Pelvic Tilt tests all

Preop vs 6w p-value

1.145462e-10

Preop vs 2y p-value

2.120399e-05

Preop vs 5y p-value

0.0124794

6w vs 2y p-value

0.007831914

2y vs 5y p-value

0.2408959

6w vs 5y p-value

0.0008481963

Pelvic Tilt tests UT

Preop vs 6w p-value

0.000812658

Preop vs 2y p-value

0.05127784

Preop vs 5y p-value

0.2505956

6w vs 2y p-value

0.08696169

2y vs 5y p-value

0.4407094

6w vs 5y p-value

0.02112915

Pelvic Tilt tests LT

Preop vs 6w p-value  
6.145562e-08

Preop vs 2y p-value  
0.0003325821

Preop vs 5y p-value  
0.05202106

6w vs 2y p-value  
0.02556385

2y vs 5y p-value  
0.3307422

6w vs 5y p-value  
0.006683947

Sacral Slope - mean

All

[1] 29.17

UT

[1] 27.17

LT

[1] 29.96

UT vs LT p-value:[1] 0.3127967

6W. Sacral Slope - mean

All

[1] 37.17

UT

[1] 36.41

LT

[1] 37.93

UT vs LT p-value:[1] 0.5110775

6M. Sacral Slope - mean

All

[1] 34.2

UT

[1] 32.86

LT

[1] 35.11

UT vs LT p-value:[1] 0.334128

1Y. Sacral Slope - mean

All

[1] 33.31

UT

[1] 32.81

LT

[1] 33.48

UT vs LT p-value:[1] 0.7626933

2Y. Sacral Slope - mean

All

[1] 33.8

UT

[1] 32.53

LT

[1] 34.34

UT vs LT p-value:[1] 0.4250854

5Y. Sacral Slope - mean

All

[1] 32.34

UT

[1] 31.1

LT

[1] 33.28

UT vs LT p-value:[1] 0.355283

Sacral Slope tests all

Preop vs 6w p-value

3.457491e-08

Preop vs 2y p-value

0.0008739056

Preop vs 5y p-value

0.03739082

6w vs 2y p-value

0.01189328

2y vs 5y p-value  
0.3129219

6w vs 5y p-value  
0.001261725

Sacral Slope tests UT  
Preop vs 6w p-value  
0.004604006

Preop vs 2y p-value  
0.09182575

Preop vs 5y p-value  
0.2070252

6w vs 2y p-value  
0.1602135

2y vs 5y p-value  
0.5962049

6w vs 5y p-value  
0.0531146

Sacral Slope tests LT  
Preop vs 6w p-value  
7.99437e-06

Preop vs 2y p-value  
0.009404931

Preop vs 5y p-value  
0.07532591

6w vs 2y p-value  
0.03654749

2y vs 5y p-value  
0.5599778

6w vs 5y p-value  
0.01478401

RLL - mean  
All  
[1] -31.21  
UT  
[1] -22.8  
LT  
[1] -32.81

UT vs LT p-value:[1] 0.005751802

6W. RLL - mean

All

[1] -11.43

UT

[1] -8.89

LT

[1] -10.83

UT vs LT p-value:[1] 0.4719321

6M. RLL - mean

All

[1] -12.81

UT

[1] -11.33

LT

[1] -11.75

UT vs LT p-value:[1] 0.8584863

1Y. RLL - mean

All

[1] -14.12

UT

[1] -11.96

LT

[1] -13.42

UT vs LT p-value:[1] 0.5797712

2Y. RLL - mean

All

[1] -14.36

UT

[1] -12.38

LT

[1] -13.33

UT vs LT p-value:[1] 0.7106094

5Y. RLL - mean

All

[1] -14.12

UT

[1] -14.49

LT

[1] -13.4

UT vs LT p-value:[1] 0.741183

RLL tests all

Preop vs 6w p-value

1.275195e-22

Preop vs 2y p-value

2.62431e-17

Preop vs 5y p-value

1.461175e-14

6w vs 2y p-value

0.05681475

2y vs 5y p-value

0.8935707

6w vs 5y p-value

0.1304363

RLL tests UT

Preop vs 6w p-value

0.000590275

Preop vs 2y p-value

0.007327632

Preop vs 5y p-value

0.04717794

6w vs 2y p-value

0.2904524

2y vs 5y p-value

0.560333

6w vs 5y p-value

0.1340291

RLL tests LT



Preop vs 6w p-value  
8.487873e-19

Preop vs 2y p-value  
6.571176e-16

Preop vs 5y p-value  
1.439153e-12

6w vs 2y p-value  
0.1502907

2y vs 5y p-value  
0.9754815

6w vs 5y p-value  
0.2255219

Global Tilt - mean

All

[1] 37.42

UT

[1] 34.57

LT

[1] 38.41

UT vs LT p-value:[1] 0.3080907

6W. Global Tilt - mean

All

[1] 21.56

UT

[1] 15.92

LT

[1] 22.58

UT vs LT p-value:[1] 0.01136033

6M. Global Tilt - mean

All

[1] 24.5

UT

[1] 19.09

LT

[1] 25.62

UT vs LT p-value:[1] 0.02575126

1Y. Global Tilt - mean

All

[1] 25.86

UT

[1] 20.62

LT

[1] 27.65

UT vs LT p-value:[1] 0.02357315

2Y. Global Tilt - mean

All

[1] 27.44

UT

[1] 23.53

LT

[1] 28.6

UT vs LT p-value:[1] 0.1290605

5Y. Global Tilt - mean

All

[1] 29.59

UT

[1] 26.62

LT

[1] 31.26

UT vs LT p-value:[1] 0.2552254

Global Tilt tests all

Preop vs 6w p-value

4.272585e-18

Preop vs 2y p-value

5.125482e-08

Preop vs 5y p-value

0.0004999244

6w vs 2y p-value

0.0001208684

2y vs 5y p-value  
0.3002192

6w vs 5y p-value  
9.829168e-05

Global Tilt tests UT  
Preop vs 6w p-value  
2.814701e-05

Preop vs 2y p-value  
0.01692403

Preop vs 5y p-value  
0.1014097

6w vs 2y p-value  
0.04554696

2y vs 5y p-value  
0.4964784

6w vs 5y p-value  
0.01233339

Global Tilt tests LT  
Preop vs 6w p-value  
1.100306e-12

Preop vs 2y p-value  
8.16903e-06

Preop vs 5y p-value  
0.009787351

6w vs 2y p-value  
0.0009737975

2y vs 5y p-value  
0.2966465

6w vs 5y p-value  
0.0007226073

T1 Sagittal Tilt - mean  
All  
[1] 0.9  
UT  
[1] 0.37  
LT  
[1] 1.02

UT vs LT p-value:[1] 0.6531528

6W. T1 Sagittal Tilt - mean

All

[1] -3.54

UT

[1] -3.96

LT

[1] -3.63

UT vs LT p-value:[1] 0.7311998

6M. T1 Sagittal Tilt - mean

All

[1] -4.06

UT

[1] -6.26

LT

[1] -3.51

UT vs LT p-value:[1] 0.008491395

1Y. T1 Sagittal Tilt - mean

All

[1] -3.73

UT

[1] -5.82

LT

[1] -3.16

UT vs LT p-value:[1] 0.04198134

2Y. T1 Sagittal Tilt - mean

All

[1] -2.81

UT

[1] -4.23

LT

[1] -2.41

UT vs LT p-value:[1] 0.1059311

5Y. T1 Sagittal Tilt - mean

All

[1] -1.77

UT

[1] -2.83

LT

[1] -1.09

UT vs LT p-value:[1] 0.2644677

T1 Sagittal Tilt tests all

Preop vs 6w p-value

1.393605e-08

Preop vs 2y p-value

4.2005e-06

Preop vs 5y p-value

0.006783126

6w vs 2y p-value

0.230332

2y vs 5y p-value

0.2321972

6w vs 5y p-value

0.03628728

T1 Sagittal Tilt tests UT

Preop vs 6w p-value

0.004457637

Preop vs 2y p-value

0.003719552

Preop vs 5y p-value

0.06336743

6w vs 2y p-value

0.834563

2y vs 5y p-value

0.3635138

6w vs 5y p-value

0.4439481

T1 Sagittal Tilt tests LT

Preop vs 6w p-value  
6.568103e-06

Preop vs 2y p-value  
0.00118199

Preop vs 5y p-value  
0.10442

6w vs 2y p-value  
0.1037789

2y vs 5y p-value  
0.2416944

6w vs 5y p-value  
0.02081587

Thoracolumbar L2-T10 - mean

All

[1] 10.09

UT

[1] 22.05

LT

[1] 7.2

UT vs LT p-value:[1] 0.001204606

6W. Thoracolumbar L2-T10 - mean

All

[1] 7.5

UT

[1] 7.18

LT

[1] 7.27

UT vs LT p-value:[1] 0.9705336

6M. Thoracolumbar L2-T10 - mean

All

[1] 7.8

UT

[1] 5.45

LT

[1] 9.27

UT vs LT p-value:[1] 0.08557813

1Y. Thoracolumbar L2-T10 - mean  
All  
[1] 7.45  
UT  
[1] 5.51  
LT  
[1] 8.78

UT vs LT p-value:[1] 0.2072704

2Y. Thoracolumbar L2-T10 - mean  
All  
[1] 7.41  
UT  
[1] 5.41  
LT  
[1] 9.06

UT vs LT p-value:[1] 0.1844053

5Y. Thoracolumbar L2-T10 - mean  
All  
[1] 7.89  
UT  
[1] 0.38  
LT  
[1] 11.34

UT vs LT p-value:[1] 0.001207391

Thoracolumbar L2-T10 tests all  
Preop vs 6w p-value  
0.1975031

Preop vs 2y p-value  
0.2075124

Preop vs 5y p-value  
0.378653

6w vs 2y p-value  
0.9538072

2y vs 5y p-value  
0.820896

6w vs 5y p-value  
0.8451113

Thoracolumbar L2-T10 tests UT  
Preop vs 6w p-value  
0.001323144

Preop vs 2y p-value  
0.0004557858

Preop vs 5y p-value  
1.345151e-05

6w vs 2y p-value  
0.569714

2y vs 5y p-value  
0.1198425

6w vs 5y p-value  
0.03285922

Thoracolumbar L2-T10 tests LT  
Preop vs 6w p-value  
0.9752786

Preop vs 2y p-value  
0.467201

Preop vs 5y p-value  
0.1826316

6w vs 2y p-value  
0.3338705

2y vs 5y p-value  
0.4110482

6w vs 5y p-value  
0.1126548

RSA - mean  
All  
[1] 24.9  
UT  
[1] 23.64  
LT  
[1] 25.3

UT vs LT p-value:[1] 0.6402888



6W. RSA - mean

All

[1] 8.86

UT

[1] 5.47

LT

[1] 9.13

UT vs LT p-value:[1] 0.0587347

6M. RSA - mean

All

[1] 11.92

UT

[1] 8.43

LT

[1] 12.37

UT vs LT p-value:[1] 0.07130209

1Y. RSA - mean

All

[1] 13.47

UT

[1] 9.81

LT

[1] 14.7

UT vs LT p-value:[1] 0.03629373

2Y. RSA - mean

All

[1] 15.04

UT

[1] 12.8

LT

[1] 15.59

UT vs LT p-value:[1] 0.2903962

5Y. RSA - mean

All

[1] 17.16

UT

[1] 15.45

LT

[1] 18.03

UT vs LT p-value:[1] 0.4289167

RSA tests all

Preop vs 6w p-value

5.407071e-23

Preop vs 2y p-value

5.282738e-10

Preop vs 5y p-value

4.842609e-05

6w vs 2y p-value

3.426983e-07

2y vs 5y p-value

0.2042676

6w vs 5y p-value

8.1873e-07

RSA tests UT

Preop vs 6w p-value

1.173725e-05

Preop vs 2y p-value

0.009373224

Preop vs 5y p-value

0.05851155

6w vs 2y p-value

0.01463849

2y vs 5y p-value

0.4667474

6w vs 5y p-value

0.003677035

RSA tests LT

Preop vs 6w p-value  
8.732553e-17

Preop vs 2y p-value  
1.985266e-07

Preop vs 5y p-value  
0.001640124

6w vs 2y p-value  
1.122806e-05

2y vs 5y p-value  
0.2322613

6w vs 5y p-value  
2.422945e-05

RPV - mean  
All  
[1] -13.66  
UT  
[1] -13.7  
LT  
[1] -13.59

UT vs LT p-value:[1] 0.9605977

6W. RPV - mean  
All  
[1] -5.76  
UT  
[1] -3.93  
LT  
[1] -5.87

UT vs LT p-value:[1] 0.2714932

6M. RPV - mean  
All  
[1] -8.69  
UT  
[1] -7.72  
LT  
[1] -8.61

UT vs LT p-value:[1] 0.587466

1Y. RPV - mean

All

[1] -9.31

UT

[1] -7.95

LT

[1] -9.81

UT vs LT p-value:[1] 0.307199

2Y. RPV - mean

All

[1] -8.76

UT

[1] -7.68

LT

[1] -9.07

UT vs LT p-value:[1] 0.4112194

5Y. RPV - mean

All

[1] -10.38

UT

[1] -10.06

LT

[1] -10.42

UT vs LT p-value:[1] 0.8426548

RPV tests all

Preop vs 6w p-value

1.025799e-13

Preop vs 2y p-value

4.723301e-07

Preop vs 5y p-value

0.002256949

6w vs 2y p-value

0.001364533

2y vs 5y p-value  
0.1007442

6w vs 5y p-value  
1.562604e-05

RPV tests UT  
Preop vs 6w p-value  
0.0002265302

Preop vs 2y p-value  
0.01830739

Preop vs 5y p-value  
0.1421404

6w vs 2y p-value  
0.08849781

2y vs 5y p-value  
0.2678974

6w vs 5y p-value  
0.005820162

RPV tests LT  
Preop vs 6w p-value  
2.103937e-10

Preop vs 2y p-value  
1.778106e-05

Preop vs 5y p-value  
0.01040085

6w vs 2y p-value  
0.004044163

2y vs 5y p-value  
0.2573896

6w vs 5y p-value  
0.0005735295

### **Quality of Life**

ODI - Score (%) - mean

All

[1] 45.39

UT

[1] 42.48

LT

[1] 47.24

UT vs LT p-value:[1] 0.2641883

6M. ODI - Score (%) - mean

All

[1] 33.19

UT

[1] 32.04

LT

[1] 33.15

UT vs LT p-value:[1] 0.7907663

1Y. ODI - Score (%) - mean

All

[1] 32.07

UT

[1] 34.38

LT

[1] 31.17

UT vs LT p-value:[1] 0.4463975

2Y. ODI - Score (%) - mean

All

[1] 34.97

UT

[1] 30.08

LT

[1] 35.59

UT vs LT p-value:[1] 0.2782185

5Y. ODI - Score (%) - mean

All

[1] 37.47

UT

[1] 34.8

LT

[1] 37.69

UT vs LT p-value:[1] 0.6434

ODI - Score (%) tests all  
Preop vs 6m p-value  
2.641367e-07

Preop vs 2y p-value  
6.135507e-05

Preop vs 5y p-value  
0.005987551

6m vs 2y p-value  
0.5047968

2y vs 5y p-value  
0.427148

6w vs 5y p-value  
1.090396e-33

ODI - Score (%) tests UT  
Preop vs 6m p-value  
0.05316691

Preop vs 2y p-value  
0.03797865

Preop vs 5y p-value  
0.265418

6m vs 2y p-value  
0.7336436

2y vs 5y p-value  
0.5131148

6w vs 5y p-value  
1.799872e-07

ODI - Score (%) tests LT  
Preop vs 6m p-value  
0.0006322193

Preop vs 2y p-value  
0.0001524535

Preop vs 5y p-value  
0.002618294

6m vs 2y p-value

0.4209287

2y vs 5y p-value  
0.548482

6w vs 5y p-value  
6.777729e-27

SRS22 - Function / Activity - mean  
All  
[1] 2.74  
UT  
[1] 2.9  
LT  
[1] 2.64

UT vs LT p-value:[1] 0.1109399

6M. SRS22 - Function / Activity - mean  
All  
[1] 2.99  
UT  
[1] 2.98  
LT  
[1] 3.01

UT vs LT p-value:[1] 0.8202379

1Y. SRS22 - Function / Activity - mean  
All  
[1] 3.08  
UT  
[1] 2.99  
LT  
[1] 3.05

UT vs LT p-value:[1] 0.7202619

2Y. SRS22 - Function / Activity - mean  
All  
[1] 3.15  
UT  
[1] 3.15  
LT  
[1] 3.18



UT vs LT p-value:[1] 0.8822219

5Y. SRS22 - Function / Activity - mean

All

[1] 3.19

UT

[1] 3.24

LT

[1] 3.19

UT vs LT p-value:[1] 0.835051

SRS22 - Function / Activity tests all

Preop vs 6m p-value

0.005209729

Preop vs 2y p-value

4.40169e-05

Preop vs 5y p-value

8.759409e-05

6m vs 2y p-value

0.1187939

2y vs 5y p-value

0.7560881

6w vs 5y p-value

5.157944e-17

SRS22 - Function / Activity tests UT

Preop vs 6m p-value

0.6909416

Preop vs 2y p-value

0.2807514

Preop vs 5y p-value

0.2118015

6m vs 2y p-value

0.4208335

2y vs 5y p-value

0.7525176

6w vs 5y p-value  
5.006994e-17

SRS22 - Function / Activity tests LT  
Preop vs 6m p-value  
0.01924373

Preop vs 2y p-value  
5.814402e-06

Preop vs 5y p-value  
1.881468e-05

6m vs 2y p-value  
0.1873662

2y vs 5y p-value  
0.9467866

6w vs 5y p-value  
5.019226e-17

SRS22 - Pain - mean  
All  
[1] 2.3  
UT  
[1] 2.17  
LT  
[1] 2.28

UT vs LT p-value:[1] 0.5521584

6M. SRS22 - Pain - mean  
All  
[1] 3.31  
UT  
[1] 3.31  
LT  
[1] 3.32

UT vs LT p-value:[1] 0.9501571

1Y. SRS22 - Pain - mean  
All  
[1] 3.37  
UT  
[1] 3.24  
LT

[1] 3.41

UT vs LT p-value:[1] 0.4876742

2Y. SRS22 - Pain - mean

All

[1] 3.31

UT

[1] 3.56

LT

[1] 3.32

UT vs LT p-value:[1] 0.3679061

5Y. SRS22 - Pain - mean

All

[1] 3.09

UT

[1] 3.08

LT

[1] 3.1

UT vs LT p-value:[1] 0.9495386

SRS22 - Pain tests all

Preop vs 6m p-value

2.786954e-18

Preop vs 2y p-value

7.428262e-14

Preop vs 5y p-value

9.838289e-08

6m vs 2y p-value

0.9717105

2y vs 5y p-value

0.1669307

6w vs 5y p-value

8.871428e-17

SRS22 - Pain tests UT

Preop vs 6m p-value

1.115975e-05

Preop vs 2y p-value  
8.932931e-06

Preop vs 5y p-value  
0.007288091

6m vs 2y p-value  
0.3910485

2y vs 5y p-value  
0.1940124

6w vs 5y p-value  
1.73425e-16

SRS22 - Pain tests LT  
Preop vs 6m p-value  
3.671359e-06

Preop vs 2y p-value  
2.29785e-10

Preop vs 5y p-value  
1.805182e-06

6m vs 2y p-value  
0.9630999

2y vs 5y p-value  
0.244056

6w vs 5y p-value  
8.236008e-17

SRS22 - Self image / Appearance - mean

All

[1] 2.05

UT

[1] 1.9

LT

[1] 2.05

UT vs LT p-value:[1] 0.2280209

6M. SRS22 - Self image / Appearance - mean

All

[1] 3.3

UT

[1] 3.41

LT  
[1] 3.32

UT vs LT p-value:[1] 0.6718435

1Y. SRS22 - Self image / Appearance - mean  
All  
[1] 3.33  
UT  
[1] 3.37  
LT  
[1] 3.32

UT vs LT p-value:[1] 0.8107108

2Y. SRS22 - Self image / Appearance - mean  
All  
[1] 3.19  
UT  
[1] 3.46  
LT  
[1] 3.16

UT vs LT p-value:[1] 0.2144389

5Y. SRS22 - Self image / Appearance - mean  
All  
[1] 3.08  
UT  
[1] 3.24  
LT  
[1] 3.06

UT vs LT p-value:[1] 0.5049689

SRS22 - Self image / Appearance tests all  
Preop vs 6m p-value  
4.5482e-29

Preop vs 2y p-value  
4.774737e-23

Preop vs 5y p-value  
1.469375e-15

6m vs 2y p-value  
0.3434209

2y vs 5y p-value  
0.4152314

6w vs 5y p-value  
8.934226e-17

SRS22 - Self image / Appearance tests UT  
Preop vs 6m p-value  
3.735277e-08

Preop vs 2y p-value  
2.320571e-07

Preop vs 5y p-value  
1.408047e-05

6m vs 2y p-value  
0.8556326

2y vs 5y p-value  
0.4933477

6w vs 5y p-value  
5.708383e-17

SRS22 - Self image / Appearance tests LT  
Preop vs 6m p-value  
2.222115e-07

Preop vs 2y p-value  
2.294144e-16

Preop vs 5y p-value  
1.964354e-11

6m vs 2y p-value  
0.2524084

2y vs 5y p-value  
0.5077463

6w vs 5y p-value  
1.041575e-16

SRS22 - Mental health - mean  
All  
[1] 2.92  
UT

[1] 3.05  
LT  
[1] 2.87

UT vs LT p-value:[1] 0.4205863

6M. SRS22 - Mental health - mean  
All  
[1] 3.41  
UT  
[1] 3.61  
LT  
[1] 3.39

UT vs LT p-value:[1] 0.2696805

1Y. SRS22 - Mental health - mean  
All  
[1] 3.48  
UT  
[1] 3.52  
LT  
[1] 3.51

UT vs LT p-value:[1] 0.9547109

2Y. SRS22 - Mental health - mean  
All  
[1] 3.33  
UT  
[1] 3.72  
LT  
[1] 3.29

UT vs LT p-value:[1] 0.06210427

5Y. SRS22 - Mental health - mean  
All  
[1] 3.3  
UT  
[1] 3.5  
LT

[1] 3.26

UT vs LT p-value:[1] 0.3204926

SRS22 - Mental health tests all  
Preop vs 6m p-value  
1.979881e-05

Preop vs 2y p-value  
0.0007223483

Preop vs 5y p-value  
0.003637971

6m vs 2y p-value  
0.5348257

2y vs 5y p-value  
0.806078

6w vs 5y p-value  
2.850895e-17

SRS22 - Mental health tests UT  
Preop vs 6m p-value  
0.03600857

Preop vs 2y p-value  
0.02106505

Preop vs 5y p-value  
0.1281484

6m vs 2y p-value  
0.6908002

2y vs 5y p-value  
0.4731402

6w vs 5y p-value  
1.171633e-17

SRS22 - Mental health tests LT  
Preop vs 6m p-value  
0.0004270589

Preop vs 2y p-value  
0.003611761

Preop vs 5y p-value  
0.01301424



6m vs 2y p-value  
0.1098037

2y vs 5y p-value  
0.8417695

6w vs 5y p-value  
3.613739e-17

SRS22 - SRS Subtotal score - mean

All

[1] 2.51

UT

[1] 2.51

LT

[1] 2.47

UT vs LT p-value:[1] 0.7331165

6M. SRS22 - SRS Subtotal score - mean

All

[1] 3.26

UT

[1] 3.33

LT

[1] 3.26

UT vs LT p-value:[1] 0.6314849

1Y. SRS22 - SRS Subtotal score - mean

All

[1] 3.32

UT

[1] 3.29

LT

[1] 3.33

UT vs LT p-value:[1] 0.7840485

2Y. SRS22 - SRS Subtotal score - mean

All

[1] 3.24

UT

[1] 3.47

LT  
[1] 3.23

UT vs LT p-value:[1] 0.2442933

5Y. SRS22 - SRS Subtotal score - mean  
All  
[1] 3.17  
UT  
[1] 3.27  
LT  
[1] 3.15

UT vs LT p-value:[1] 0.6408109

SRS22 - SRS Subtotal score tests all  
Preop vs 6m p-value  
5.960475e-18

Preop vs 2y p-value  
2.017802e-13

Preop vs 5y p-value  
3.417195e-09

6m vs 2y p-value  
0.8993853

2y vs 5y p-value  
0.5248112

6w vs 5y p-value  
5.756928e-17

SRS22 - SRS Subtotal score tests UT  
Preop vs 6m p-value  
1.871305e-05

Preop vs 2y p-value  
6.101258e-05

Preop vs 5y p-value  
0.003925291

6m vs 2y p-value  
0.5356368

2y vs 5y p-value

0.4711429

6w vs 5y p-value  
4.277433e-17

SRS22 - SRS Subtotal score tests LT  
Preop vs 6m p-value  
6.15114e-07

Preop vs 2y p-value  
1.242761e-10

Preop vs 5y p-value  
7.758512e-08

6m vs 2y p-value  
0.5263014

2y vs 5y p-value  
0.5687202

6w vs 5y p-value  
6.151306e-17

SF36 - PCS - mean  
All  
[1] 33.2  
UT  
[1] 33.52  
LT  
[1] 32.28

UT vs LT p-value:[1] 0.5066843

6M. SF36 - PCS - mean  
All  
[1] 37.7  
UT  
[1] 36.81  
LT  
[1] 38.13

UT vs LT p-value:[1] 0.5606941

1Y. SF36 - PCS - mean  
All  
[1] 38.61  
UT

[1] 37.62  
LT  
[1] 38.46

UT vs LT p-value:[1] 0.6711088

2Y. SF36 - PCS - mean  
All  
[1] 39.16  
UT  
[1] 39.05  
LT  
[1] 39.2

UT vs LT p-value:[1] 0.9488244

5Y. SF36 - PCS - mean  
All  
[1] 37.42  
UT  
[1] 37.06  
LT  
[1] 37.53

UT vs LT p-value:[1] 0.8597305

SF36 - PCS tests all  
Preop vs 6m p-value  
1.922192e-05

Preop vs 2y p-value  
2.251152e-07

Preop vs 5y p-value  
0.001697199

6m vs 2y p-value  
0.2198412

2y vs 5y p-value  
0.2291401

6w vs 5y p-value  
6.434645e-71

SF36 - PCS tests UT  
Preop vs 6m p-value  
0.2300624

Preop vs 2y p-value  
0.04940239

Preop vs 5y p-value  
0.2255641

6m vs 2y p-value  
0.4590548

2y vs 5y p-value  
0.5322686

6w vs 5y p-value  
2.029223e-17

SF36 - PCS tests LT  
Preop vs 6m p-value  
0.05067251

Preop vs 2y p-value  
1.20466e-07

Preop vs 5y p-value  
0.0006380642

6m vs 2y p-value  
0.3117589

2y vs 5y p-value  
0.3151814

6w vs 5y p-value  
1.320738e-52

SF36 - MCS - mean  
All  
[1] 40.67  
UT  
[1] 43.63  
LT  
[1] 40.06

UT vs LT p-value:[1] 0.2198899

6M. SF36 - MCS - mean  
All  
[1] 45.61

```
UT
[1] 47.81
LT
[1] 46.29

UT vs LT p-value:[1] 0.6133361
```

```
1Y. SF36 - MCS - mean
All
[1] 45.48
UT
[1] 43.65
LT
[1] 46.67

UT vs LT p-value:[1] 0.3587236
```

```
2Y. SF36 - MCS - mean
All
[1] 45.14
UT
[1] 46.89
LT
[1] 45.45

UT vs LT p-value:[1] 0.625681
```

```
5Y. SF36 - MCS - mean
All
[1] 44.58
UT
[1] 46.19
LT
[1] 44.51

UT vs LT p-value:[1] 0.5833487
```

```
SF36 - MCS tests all
Preop vs 6m p-value
0.001659429
```

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

0.004094832

Preop vs 5y p-value  
0.01844923

6m vs 2y p-value  
0.7660176

2y vs 5y p-value  
0.7415884

6w vs 5y p-value  
5.383902e-75

SF36 - MCS tests UT  
Preop vs 6m p-value  
0.2641384

Preop vs 2y p-value  
0.3762988

Preop vs 5y p-value  
0.4905063

6m vs 2y p-value  
0.8056209

2y vs 5y p-value  
0.8512303

6w vs 5y p-value  
8.633791e-18

SF36 - MCS tests LT  
Preop vs 6m p-value  
0.01305092

Preop vs 2y p-value  
0.003682056

Preop vs 5y p-value  
0.02458002

6m vs 2y p-value  
0.4340199

2y vs 5y p-value  
0.6342724

6w vs 5y p-value  
2.480368e-52

## Surgery

Total Operative Blood Loss st1+st2+st3 - mean

All

[1] 2038.09

UT

[1] 2175.4

LT

[1] 2044.89

UT vs LT p-value:[1] 0.6414715

Total surgical time st1+st2+st3 - mean

All

[1] 315.83

UT

[1] 364.54

LT

[1] 318.06

UT vs LT p-value:[1] 0.2632536

Number of Posterior Instrumented Levels - mean

All

[1] 10.67

UT

[1] 17

LT

[1] 9.8

UT vs LT p-value:[1] 8.412249e-35

Pelvic fixation - table

All

variable

Yes

134

UT

variable

Yes

28

LT

variable

Yes

88



# Pelvic fixation - proportion

All

variable

Yes

1

UT

variable

Yes

1

LT

variable

Yes

1

## Surgical Approach - table

All

variable

Anterior-Posterior	Posterior
2	121
Posterior-Anterior	Posterior-Posterior-Anterior
10	1

UT

variable

Anterior-Posterior	Posterior
1	22
Posterior-Anterior	Posterior-Posterior-Anterior
4	1

LT

variable

Anterior-Posterior	Posterior	Posterior-Anterior
1	81	6

## Surgical Approach - proportion

All

variable

Anterior-Posterior	Posterior
0.014925373	0.902985075
Posterior-Anterior	Posterior-Posterior-Anterior
0.074626866	0.007462687

UT

variable

Anterior-Posterior	Posterior
0.03571429	0.78571429
Posterior-Anterior	Posterior-Posterior-Anterior
0.14285714	0.03571429

LT

variable

Anterior-Posterior	Posterior	Posterior-Anterior
0.01136364	0.92045455	0.06818182

Number of Interbody Fusions - mean

All

[1] 1.17

UT

[1] 1.07

LT

[1] 1.31

UT vs LT p-value:[1] 0.4498222

Decompression - table

All

variable

No Yes

101 33

UT

variable

No Yes

25 3

LT

variable

No Yes

66 22

Decompression - proportion

All

variable

No Yes

0.7537313 0.2462687

UT

variable

No Yes

0.8928571 0.1071429

LT

variable

No Yes

0.75 0.25

Interbody Fusion - table

All

variable

No Yes

52 82

UT

variable

No Yes

12 16

LT

variable  
No Yes  
30 58

#### Interbody Fusion - proportion

All

variable  
No Yes  
0.3880597 0.6119403

UT

variable  
No Yes  
0.4285714 0.5714286

LT

variable  
No Yes  
0.3409091 0.6590909

#### Osteotomy - table

All

variable  
No Yes  
53 81

UT

variable  
No Yes  
13 15

LT

variable  
No Yes  
35 53

#### Osteotomy - proportion

All

variable  
No Yes  
0.3955224 0.6044776

UT

variable  
No Yes  
0.4642857 0.5357143

LT

variable  
No Yes  
0.3977273 0.6022727

#### 3CO - table

All

variable  
No Yes

```

100 34
UT
variable
  No Yes
  24  4
LT
variable
  No Yes
  66 22

3CO - proportion
All
variable
  No      Yes
0.7462687 0.2537313
UT
variable
  No      Yes
0.8571429 0.1428571
LT
variable
  No Yes
0.75 0.25

```

## Before 2Y

### Reinterventions

```

      group reiqs patients total
1:   all    120         44    134
2:   UT     28          9     28
3:   LT     78         28     88

      p_val_1_total p_val_2_total   p_val_1_2
1 9.105897e-15    0.003465986 1.251224e-06

```

### Impacts

```

      Complication Impact all_num all_patients UT_num UT_patients LT_num
1:              0         1         1         0         0         1
2:      Adverse Event         2         2         0         0         0
3: Major Complication       142        53        30        10        89
4: Minor Complication       103        62        16        12        74

      LT_patients total_all UT LT p_val_1_total p_val_2_total   p_val_1_2
1:              1       134 28 88 1.000000e+00 1.00000000 1.000000e+00
2:              0       134 28 88 5.000000e-01 0.50000000 1.000000e+00
3:             34       134 28 88 3.382169e-08 0.05300311 3.881309e-04
4:             42       134 28 88 2.855549e-09 0.06192638 5.209447e-05

```

## Categories

	Category of the complication	all_num	all_patients	UT_num	UT_patients			
1:	Central neurologic complications	1	1	0	0			
2:	Iatrogenic	7	7	1	1			
3:	Infectious complications	16	13	4	4			
4:	Mechanical complications	128	65	25	12			
5:	Other complications	60	30	11	5			
6:	Pain	7	7	2	2			
7:	Peripheral neurologic complications	29	23	3	3			
	LT_num	LT_patients	total_all	UT	LT	p_val_1_total	p_val_2_total	p_val_1_2
1:	0	0	134	28	88	1.000000e+00	1.00000000	1.000000e+00
2:	6	6	134	28	88	7.031250e-02	1.00000000	1.250000e-01
3:	6	5	134	28	88	4.904175e-02	0.09625244	1.000000e+00
4:	92	47	134	28	88	5.917715e-10	0.10778228	5.125629e-06
5:	38	22	134	28	88	2.236152e-05	0.33174976	1.513720e-03
6:	4	4	134	28	88	1.796875e-01	0.54882813	6.875000e-01
7:	18	13	134	28	88	8.797646e-05	0.13249816	2.127075e-02

## Categories Major Complications

	Category of the complication	all_num	all_patients	UT_num	UT_patients			
1:	Central neurologic complications	1	1	0	0			
2:	Iatrogenic	5	5	0	0			
3:	Infectious complications	15	12	4	4			
4:	Mechanical complications	83	37	17	7			
5:	Other complications	25	15	5	3			
6:	Pain	5	5	2	2			
7:	Peripheral neurologic complications	8	6	2	2			
	LT_num	LT_patients	total_all	UT	LT	p_val_1_total	p_val_2_total	p_val_1_2
1:	0	0	134	28	88	1.000000e+00	1.00000000	1.000000000
2:	5	5	134	28	88	6.250000e-02	1.00000000	0.062500000
3:	5	4	134	28	88	7.681274e-02	0.07681274	1.000000000
4:	57	24	134	28	88	5.299582e-06	0.12373144	0.003326893
5:	15	11	134	28	88	7.537842e-03	0.55719709	0.057373047
6:	2	2	134	28	88	4.531250e-01	0.45312500	1.000000000
7:	5	3	134	28	88	2.890625e-01	0.50781250	1.000000000

## From 2Y - 5Y

### Reinterventions

	group	reiqs	patients	total
1:	all	42	20	134
2:	UT	13	6	28
3:	LT	28	13	88

  

	p_val_1_total	p_val_2_total	p_val_1_2
1	0.0001136106	0.1196093	0.02753316

## Impacts

	Complication	Impact	all_num	all_patients	UT_num	UT_patients	LT_num
1:	Adverse Event		1	1	0	0	0
2:	Major Complication		43	21	13	6	29
3:	Minor Complication		27	22	9	6	16
	LT_patients	total_all	UT	LT	p_val_1_total	p_val_2_total	p_val_1_2
1:	0	134	28	88	1.000000000	1.0000000	1.0000000
2:	14	134	28	88	0.005924612	0.3105047	0.1153183
3:	14	134	28	88	0.003719166	0.2429850	0.1153183

## Categories

Category of the complication			all_num	all_patients	UT_num	UT_patients		
1:	Central neurologic complications		1		1	1		
2:	Iatrogenic		2		2	2		
3:	Infectious complications		1		1	1		
4:	Mechanical complications		64		37	18		
5:	Pain		3		3	0		
	LT_num	LT_patients	total_all	UT	LT	p_val_1_total	p_val_2_total	p_val_1_2
1:	0	0	134	28	88	1.000000e+00	1.0000000	1.00000000
2:	0	0	134	28	88	1.000000e+00	0.5000000	0.50000000
3:	0	0	134	28	88	1.000000e+00	1.0000000	1.00000000
4:	42	24	134	28	88	9.848878e-05	0.1237314	0.02430651
5:	3	3	134	28	88	2.500000e-01	1.0000000	0.25000000

## Categories Major Complications

Category of the complication			all_num	all_patients	UT_num	UT_patients		
1:	Central neurologic complications		1	1	1	1		
2:	Iatrogenic		2	2	2	2		
3:	Infectious complications		1	1	1	1		
4:	Mechanical complications		37	18	9	5		
5:	Pain		2	2	0	0		
	LT_num	LT_patients	total_all	UT	LT	p_val_1_total	p_val_2_total	p_val_1_2
1:	0	0	134	28	88	1.00000000	1.00000000	1.00000000
2:	0	0	134	28	88	1.00000000	0.50000000	0.50000000
3:	0	0	134	28	88	1.00000000	1.00000000	1.00000000
4:	27	12	134	28	88	0.01062202	0.3615946	0.1434631
5:	2	2	134	28	88	0.50000000	1.00000000	0.50000000