

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 66
2:             UT 50
3:             <NA> 18
```

Demographics

Age - mean

All

[1] 63.73134

UT

[1] 64.3

LT

[1] 64.33333

UT vs LT p-value:[1] 0.9858047

Age - sd

All

[1] 10.29283

UT

[1] 9.687463

LT

[1] 10.33044

Gender - table

All

variable

Female Male

114 20

UT

variable

Female Male

47 3

```

LT
variable
Female  Male
    53    13

```

Gender - proportion

```

All
variable
    Female    Male
0.8507463 0.1492537

```

```

UT
variable
Female  Male
    0.94  0.06

```

```

LT
variable
    Female    Male
0.8030303 0.1969697

```

Prior Spine Surgery - table

```

All
variable
    No Yes
    80  54

```

```

UT
variable
    No Yes
    35  15

```

```

LT
variable
    No Yes
    39  27

```

Prior Spine Surgery - proportion

```

All
variable
    No    Yes
0.5970149 0.4029851

```

```

UT
variable
    No Yes
0.7 0.3

```

```

LT
variable
    No    Yes
0.5909091 0.4090909

```

Height (cm)_First Visit - mean

```

All
[1] 160.7669

```

```
UT
[1] 157.76
LT
[1] 161.5692

UT vs LT p-value:[1] 0.01460318
```

```
Height (cm)_First Visit - sd
All
[1] 8.973773
UT
[1] 8.232737
LT
[1] 8.050561
```

```
Weight (kgs)_First Visit - mean
All
[1] 66.58647
UT
[1] 62.92
LT
[1] 68.21538

UT vs LT p-value:[1] 0.008777494
```

```
Weight (kgs)_First Visit - sd
All
[1] 11.90946
UT
[1] 9.707645
LT
[1] 11.56164
```

```
BMI_First Visit - mean
All
[1] 25.74714
UT
[1] 25.399
LT
[1] 26.10554

UT vs LT p-value:[1] 0.3622448
```

```
BMI_First Visit - sd
All
[1] 3.972195
UT
```

```
[1] 4.252811
LT
[1] 3.901593
```

ASA classification - table

All

variable

1	2	3
23	93	18

23 93 18

UT

variable

1	2	3
4	40	6

4 40 6

LT

variable

1	2	3
14	45	7

14 45 7

ASA classification - proportion

All

variable

1	2	3
0.1716418	0.6940299	0.1343284

0.1716418 0.6940299 0.1343284

UT

variable

1	2	3
0.08	0.80	0.12

0.08 0.80 0.12

LT

variable

1	2	3
0.2121212	0.6818182	0.1060606

0.2121212 0.6818182 0.1060606

Tobacco use_First Visit - table

All

variable

Current	Ex	Non-User
23	31	80

23 31 80

UT

variable

Current	Ex	Non-User
6	14	30

6 14 30

LT

variable

Current	Ex	Non-User
13	12	41

13 12 41

Tobacco use_First Visit - proportion

All

variable

Current	Ex	Non-User

Current Ex Non-User

0.1716418 0.2313433 0.5970149

UT

variable

Current	Ex	Non-User
0.12	0.28	0.60

LT

variable

Current	Ex	Non-User
0.1969697	0.1818182	0.6212121

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

Degenerative	Failed-back	Idiopathic	Post-traumatic	Scheuermann
20	1	25	2	1
Syndromic				
1				

LT

variable

Congenital	Degenerative	Failed-back
3	37	9
Idiopathic	Neuromuscular	Other: spondylolisthesis
12	2	1
Post-traumatic		
2		

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

Degenerative	Failed-back	Idiopathic	Post-traumatic	Scheuermann
0.40	0.02	0.50	0.04	0.02
Syndromic				
0.02				

LT

variable

Congenital	Degenerative	Failed-back
------------	--------------	-------------

0.04545455	0.56060606	0.13636364
Idiopathic	Neuromuscular	Other: spondylolisthesis
0.18181818	0.03030303	0.01515152
Post-traumatic		
0.03030303		

Radiology

Static Major curve Cobb angle - mean

All

[1] 39.32677

UT

[1] 46.5724

LT

[1] 35.25213

UT vs LT p-value:[1] 0.004583437

Static Major curve Cobb angle - sd

All

[1] 21.39411

UT

[1] 21.02163

LT

[1] 19.77347

6W. Static Major curve Cobb angle - mean

All

[1] 21.54085

UT

[1] 23.21255

LT

[1] 19.38211

UT vs LT p-value:[1] 0.1672764

6W. Static Major curve Cobb angle - sd

All

[1] 15.24844

UT

[1] 12.71703

LT

[1] 15.36723

6M. Static Major curve Cobb angle - mean

All

[1] 20.20621

UT
[1] 22.22523
LT
[1] 18.53902

UT vs LT p-value:[1] 0.1926667

6M. Static Major curve Cobb angle - sd
All
[1] 15.84264
UT
[1] 11.82459
LT
[1] 16.97595

1Y. Static Major curve Cobb angle - mean
All
[1] 18.71733
UT
[1] 21.00087
LT
[1] 16.1623

UT vs LT p-value:[1] 0.06523393

1Y. Static Major curve Cobb angle - sd
All
[1] 15.05361
UT
[1] 12.54507
LT
[1] 14.22949

2Y. Static Major curve Cobb angle - mean
All
[1] 18.52983
UT
[1] 20.56574
LT
[1] 15.61818

UT vs LT p-value:[1] 0.04107005

2Y. Static Major curve Cobb angle - sd
All
[1] 14.08187
UT

[1] 12.46909
LT
[1] 11.48519

5Y. Static Major curve Cobb angle - mean
All
[1] 20.99522
UT
[1] 23.33226
LT
[1] 19.35063

UT vs LT p-value:[1] 0.286008

5Y. Static Major curve Cobb angle - sd
All
[1] 14.65905
UT
[1] 13.92865
LT
[1] 15.41381

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
2.893485e-09

Preop vs 2y p-value
8.78215e-11

Preop vs 5y p-value

6.188105e-08

6w vs 2y p-value
0.3109539

2y vs 5y p-value
0.3746937

6w vs 5y p-value
0.9694669

Static Major curve Cobb angle tests LT
Preop vs 6w p-value
3.452511e-06

Preop vs 2y p-value
1.965953e-09

Preop vs 5y p-value
5.373204e-05

6w vs 2y p-value
0.144145

2y vs 5y p-value
0.2391875

6w vs 5y p-value
0.9926437

Coronal Balance (C7PL to CSVL) - mean
All
[1] 28.49481
UT
[1] 31.79604
LT
[1] 28.31692

UT vs LT p-value:[1] 0.4714836

Coronal Balance (C7PL to CSVL) - sd
All
[1] 24.46328
UT
[1] 26.24335
LT
[1] 23.93327

6W. Coronal Balance (C7PL to CSVL) - mean
All
[1] 20.85951

UT
[1] 22.69553
LT
[1] 20.62733

UT vs LT p-value:[1] 0.5112421

6W. Coronal Balance (C7PL to CSVL) - sd
All
[1] 15.35383
UT
[1] 17.5614
LT
[1] 14.00469

6M. Coronal Balance (C7PL to CSVL) - mean
All
[1] 22.33781
UT
[1] 22.75364
LT
[1] 23.62383

UT vs LT p-value:[1] 0.8004424

6M. Coronal Balance (C7PL to CSVL) - sd
All
[1] 16.88819
UT
[1] 17.67534
LT
[1] 16.75894

1Y. Coronal Balance (C7PL to CSVL) - mean
All
[1] 20.9818
UT
[1] 22.09419
LT
[1] 21.6814

UT vs LT p-value:[1] 0.9024385

1Y. Coronal Balance (C7PL to CSVL) - sd
All
[1] 16.0745
UT

[1] 16.72558
LT
[1] 16.48898

2Y. Coronal Balance (C7PL to CSVL) - mean
All
[1] 21.74561
UT
[1] 22.76773
LT
[1] 21.59125

UT vs LT p-value:[1] 0.7503399

2Y. Coronal Balance (C7PL to CSVL) - sd
All
[1] 18.22865
UT
[1] 18.74791
LT
[1] 17.70702

5Y. Coronal Balance (C7PL to CSVL) - mean
All
[1] 25.42418
UT
[1] 22.426
LT
[1] 29.50545

UT vs LT p-value:[1] 0.1772125

5Y. Coronal Balance (C7PL to CSVL) - sd
All
[1] 20.45071
UT
[1] 19.05233
LT
[1] 22.09284

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
0.04989489

Preop vs 2y p-value
0.05946465

Preop vs 5y p-value
0.072487

6w vs 2y p-value
0.9849426

2y vs 5y p-value
0.9394706

6w vs 5y p-value
0.9504635

Coronal Balance (C7PL to CSVL) tests LT
Preop vs 6w p-value
0.02911719

Preop vs 2y p-value
0.07906326

Preop vs 5y p-value
0.8074594

6w vs 2y p-value
0.7468165

2y vs 5y p-value
0.08511729

6w vs 5y p-value
0.0421976

Sagittal Balance - mean
All
[1] 80.41574

```
UT
[1] 79.89936
LT
[1] 79.91672

UT vs LT p-value:[1] 0.9988718
```

```
Sagittal Balance - sd
All
[1] 62.85756
UT
[1] 61.39535
LT
[1] 66.81294
```

```
6W. Sagittal Balance - mean
All
[1] 26.1777
UT
[1] 20.60783
LT
[1] 28.04017

UT vs LT p-value:[1] 0.2775311
```

```
6W. Sagittal Balance - sd
All
[1] 34.1803
UT
[1] 31.62051
LT
[1] 38.43379
```

```
6M. Sagittal Balance - mean
All
[1] 22.60868
UT
[1] 13.33822
LT
[1] 31.83797

UT vs LT p-value:[1] 0.01835329
```

```
6M. Sagittal Balance - sd
All
[1] 41.28151
UT
```

[1] 36.46192
LT
[1] 42.06556

1Y. Sagittal Balance - mean
All
[1] 31.69496
UT
[1] 23.412
LT
[1] 38.41729

UT vs LT p-value:[1] 0.1277416

1Y. Sagittal Balance - sd
All
[1] 48.10853
UT
[1] 49.84074
LT
[1] 48.66941

2Y. Sagittal Balance - mean
All
[1] 41.76593
UT
[1] 35.19311
LT
[1] 46.50222

UT vs LT p-value:[1] 0.2329367

2Y. Sagittal Balance - sd
All
[1] 47.28969
UT
[1] 44.50432
LT
[1] 49.15602

5Y. Sagittal Balance - mean
All
[1] 47.76544
UT
[1] 35.30065
LT

[1] 62.14788

UT vs LT p-value:[1] 0.04389935

5Y. Sagittal Balance - sd

All

[1] 53.06602

UT

[1] 45.48742

LT

[1] 58.40339

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

1.357398e-07

Preop vs 2y p-value

0.0001305205

Preop vs 5y p-value

0.0004383962

6w vs 2y p-value

0.07586664

2y vs 5y p-value

0.9918795

6w vs 5y p-value

0.1246944

Sagittal Balance tests LT

Preop vs 6w p-value
5.674249e-07

Preop vs 2y p-value
0.002271294

Preop vs 5y p-value
0.1810322

6w vs 2y p-value
0.02890587

2y vs 5y p-value
0.2036065

6w vs 5y p-value
0.004113597

Sagittal T2-T5 - mean

All

[1] 9.880159

UT

[1] 9.787917

LT

[1] 9.940667

UT vs LT p-value:[1] 0.9301138

Sagittal T2-T5 - sd

All

[1] 8.484775

UT

[1] 10.0321

LT

[1] 7.424478

6W. Sagittal T2-T5 - mean

All

[1] 13.72075

UT

[1] 15.21761

LT

[1] 12.65661

UT vs LT p-value:[1] 0.1592035

6W. Sagittal T2-T5 - sd

All

[1] 8.724172

UT

[1] 9.838987
LT
[1] 8.232766

6M. Sagittal T2-T5 - mean
All
[1] 13.06254
UT
[1] 15.28978
LT
[1] 11.65651

UT vs LT p-value:[1] 0.06342868

6M. Sagittal T2-T5 - sd
All
[1] 9.501831
UT
[1] 10.33338
LT
[1] 9.265847

1Y. Sagittal T2-T5 - mean
All
[1] 13.16741
UT
[1] 15.97522
LT
[1] 10.98644

UT vs LT p-value:[1] 0.02091048

1Y. Sagittal T2-T5 - sd
All
[1] 10.21013
UT
[1] 12.39753
LT
[1] 8.154028

2Y. Sagittal T2-T5 - mean
All
[1] 13.68737
UT
[1] 17.21818
LT

[1] 11.29564

UT vs LT p-value:[1] 0.006804271

2Y. Sagittal T2-T5 - sd

All

[1] 10.25786

UT

[1] 11.85805

LT

[1] 8.568763

5Y. Sagittal T2-T5 - mean

All

[1] 16.70471

UT

[1] 20.10871

LT

[1] 13.51212

UT vs LT p-value:[1] 0.04539882

5Y. Sagittal T2-T5 - sd

All

[1] 12.7823

UT

[1] 14.60059

LT

[1] 10.7519

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

0.009501355

Preop vs 2y p-value

0.00176467

Preop vs 5y p-value

0.001190687

6w vs 2y p-value

0.3873482

2y vs 5y p-value

0.3663238

6w vs 5y p-value

0.1091853

Sagittal T2-T5 tests LT

Preop vs 6w p-value

0.06142316

Preop vs 2y p-value

0.368773

Preop vs 5y p-value

0.09575251

6w vs 2y p-value

0.3896955

2y vs 5y p-value

0.3179222

6w vs 5y p-value

0.6932087

Sagittal T5-T12 - mean

All

[1] 29.14908

UT

[1] 34.62184

LT

[1] 27.37172

UT vs LT p-value:[1] 0.0356883

Sagittal T5-T12 - sd

All

[1] 17.76927

UT

[1] 20.17371
LT
[1] 14.36257

6W. Sagittal T5-T12 - mean
All
[1] 35.2077
UT
[1] 35.78146
LT
[1] 36.94194

UT vs LT p-value:[1] 0.6356924

6W. Sagittal T5-T12 - sd
All
[1] 13.84089
UT
[1] 11.68403
LT
[1] 13.91396

6M. Sagittal T5-T12 - mean
All
[1] 37.69412
UT
[1] 37.08156
LT
[1] 40.13683

UT vs LT p-value:[1] 0.2410361

6M. Sagittal T5-T12 - sd
All
[1] 13.71477
UT
[1] 13.14751
LT
[1] 13.43799

1Y. Sagittal T5-T12 - mean
All
[1] 37.88812
UT
[1] 38.22913
LT

[1] 41.09133

UT vs LT p-value:[1] 0.2449936

1Y. Sagittal T5-T12 - sd

All

[1] 13.60215

UT

[1] 12.26746

LT

[1] 12.76919

2Y. Sagittal T5-T12 - mean

All

[1] 38.81209

UT

[1] 40.10978

LT

[1] 41.18291

UT vs LT p-value:[1] 0.6912301

2Y. Sagittal T5-T12 - sd

All

[1] 14.24226

UT

[1] 13.18073

LT

[1] 13.66471

5Y. Sagittal T5-T12 - mean

All

[1] 42.88353

UT

[1] 40.70613

LT

[1] 46.69758

UT vs LT p-value:[1] 0.1257993

5Y. Sagittal T5-T12 - sd

All

[1] 16.14944

UT

[1] 15.57681

LT

[1] 15.28228

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
0.7293233

Preop vs 2y p-value
0.1194235

Preop vs 5y p-value
0.134036

6w vs 2y p-value
0.09816026

2y vs 5y p-value
0.8621364

6w vs 5y p-value
0.1377875

Sagittal T5-T12 tests LT
Preop vs 6w p-value
0.0002263382

Preop vs 2y p-value
4.139887e-07

Preop vs 5y p-value
1.057887e-07

6w vs 2y p-value
0.09942463

2y vs 5y p-value
0.09339375

6w vs 5y p-value
0.003352377

Sagittal T2-T12 - mean
All
[1] 35.22197
UT
[1] 39.90673
LT
[1] 33.38262

UT vs LT p-value:[1] 0.06231162

Sagittal T2-T12 - sd
All
[1] 18.04679
UT
[1] 19.54847
LT
[1] 16.43948

6W. Sagittal T2-T12 - mean
All
[1] 44.7676
UT
[1] 46.19531
LT
[1] 45.58333

UT vs LT p-value:[1] 0.8157152

6W. Sagittal T2-T12 - sd
All
[1] 14.43577
UT
[1] 14.09788
LT
[1] 12.96642

6M. Sagittal T2-T12 - mean
All
[1] 48.38246
UT
[1] 50.68533
LT

[1] 49.04603

UT vs LT p-value:[1] 0.5754632

6M. Sagittal T2-T12 - sd

All

[1] 15.2538

UT

[1] 15.36393

LT

[1] 14.33354

1Y. Sagittal T2-T12 - mean

All

[1] 47.82461

UT

[1] 51.14109

LT

[1] 48.73241

UT vs LT p-value:[1] 0.3992509

1Y. Sagittal T2-T12 - sd

All

[1] 15.17845

UT

[1] 14.47056

LT

[1] 14.32949

2Y. Sagittal T2-T12 - mean

All

[1] 47.66922

UT

[1] 51.56333

LT

[1] 47.92786

UT vs LT p-value:[1] 0.2483952

2Y. Sagittal T2-T12 - sd

All

[1] 16.29913

UT

[1] 16.39816

LT

[1] 14.6167

5Y. Sagittal T2-T12 - mean

All

[1] 53.26824

UT

[1] 54.60097

LT

[1] 53.48636

UT vs LT p-value:[1] 0.7919418

5Y. Sagittal T2-T12 - sd

All

[1] 16.96503

UT

[1] 17.38702

LT

[1] 16.19265

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

0.07120428

Preop vs 2y p-value

0.002271363

Preop vs 5y p-value

0.0007978842

6w vs 2y p-value

0.09367552

2y vs 5y p-value
0.4466002

6w vs 5y p-value
0.0277195

Sagittal T2-T12 tests LT
Preop vs 6w p-value
9.532226e-06

Preop vs 2y p-value
1.039873e-06

Preop vs 5y p-value
2.28897e-07

6w vs 2y p-value
0.3640691

2y vs 5y p-value
0.1101406

6w vs 5y p-value
0.01930236

Lordosis (top of L1-S1) - mean
All
[1] -33.33932
UT
[1] -37.13388
LT
[1] -31.99803

UT vs LT p-value:[1] 0.1324747

Lordosis (top of L1-S1) - sd
All
[1] 18.4722
UT
[1] 17.60483
LT
[1] 18.43757

6W. Lordosis (top of L1-S1) - mean
All
[1] -53.19291
UT
[1] -55.41
LT

[1] -53.40968

UT vs LT p-value:[1] 0.4437531

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

All

[1] 13.74339

UT

[1] 13.96687

LT

[1] 13.04767

6M. Lordosis (top of L1-S1) - mean

All

[1] -51.80355

UT

[1] -53.70267

LT

[1] -52.64109

UT vs LT p-value:[1] 0.6575971

6M. Lordosis (top of L1-S1) - sd

All

[1] 13.26392

UT

[1] 12.64692

LT

[1] 11.71408

1Y. Lordosis (top of L1-S1) - mean

All

[1] -50.21151

UT

[1] -51.8013

LT

[1] -50.94733

UT vs LT p-value:[1] 0.7403

1Y. Lordosis (top of L1-S1) - sd

All

[1] 13.39463

UT

[1] 14.17277

LT

[1] 11.56299

2Y. Lordosis (top of L1-S1) - mean
All
[1] -49.81788
UT
[1] -52.11152
LT
[1] -50.35281

UT vs LT p-value:[1] 0.4893299

2Y. Lordosis (top of L1-S1) - sd
All
[1] 13.71632
UT
[1] 13.17019
LT
[1] 12.28808

5Y. Lordosis (top of L1-S1) - mean
All
[1] -50.31058
UT
[1] -51.16323
LT
[1] -50.78412

UT vs LT p-value:[1] 0.9092628

5Y. Lordosis (top of L1-S1) - sd
All
[1] 13.42462
UT
[1] 14.61839
LT
[1] 11.77053

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
1.663928e-07

Preop vs 2y p-value
8.971258e-06

Preop vs 5y p-value
0.0002454054

6w vs 2y p-value
0.2416684

2y vs 5y p-value
0.7725226

6w vs 5y p-value
0.2042885

Lordosis (top of L1-S1) tests LT
Preop vs 6w p-value
6.464052e-12

Preop vs 2y p-value
1.548947e-09

Preop vs 5y p-value
1.626072e-08

6w vs 2y p-value
0.1889154

2y vs 5y p-value
0.8683615

6w vs 5y p-value
0.3164753

Pelvic Incidence - mean
All
[1] 57.32962
UT
[1] 58.04776
LT

[1] 57.08727

UT vs LT p-value:[1] 0.7048287

Pelvic Incidence - sd

All

[1] 12.92752

UT

[1] 13.92194

LT

[1] 12.6795

6W. Pelvic Incidence - mean

All

[1] 57.50635

UT

[1] 57.34813

LT

[1] 57.68935

UT vs LT p-value:[1] 0.8933454

6W. Pelvic Incidence - sd

All

[1] 12.72999

UT

[1] 13.79345

LT

[1] 12.39857

6M. Pelvic Incidence - mean

All

[1] 57.43876

UT

[1] 57.69844

LT

[1] 57.5775

UT vs LT p-value:[1] 0.9627459

6M. Pelvic Incidence - sd

All

[1] 12.77058

UT

[1] 13.99149

LT

[1] 12.17404

1Y. Pelvic Incidence - mean

All

[1] 56.98151

UT

[1] 57.1213

LT

[1] 57.02533

UT vs LT p-value:[1] 0.969961

1Y. Pelvic Incidence - sd

All

[1] 12.63303

UT

[1] 13.32586

LT

[1] 12.49009

2Y. Pelvic Incidence - mean

All

[1] 56.86807

UT

[1] 56.78174

LT

[1] 57.12017

UT vs LT p-value:[1] 0.8961766

2Y. Pelvic Incidence - sd

All

[1] 12.64936

UT

[1] 13.6459

LT

[1] 12.37675

5Y. Pelvic Incidence - mean

All

[1] 57.14551

UT

[1] 57.83129

LT

[1] 57.29265

UT vs LT p-value:[1] 0.8634318

5Y. Pelvic Incidence - sd
All
[1] 12.37284
UT
[1] 13.09987
LT
[1] 11.93297

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
0.8041958

Preop vs 2y p-value
0.6555537

Preop vs 5y p-value
0.9441941

6w vs 2y p-value
0.8418443

2y vs 5y p-value
0.7356601

6w vs 5y p-value
0.8759052

Pelvic Incidence tests LT
Preop vs 6w p-value
0.786399

Preop vs 2y p-value
0.9883745

Preop vs 5y p-value
0.9366251

6w vs 2y p-value
0.8018419

2y vs 5y p-value
0.947563

6w vs 5y p-value
0.8783383

Pelvic Tilt - mean

All

[1] 28.13797

UT

[1] 29.38327

LT

[1] 27.26227

UT vs LT p-value:[1] 0.2271137

Pelvic Tilt - sd

All

[1] 9.504553

UT

[1] 9.916312

LT

[1] 8.268536

6W. Pelvic Tilt - mean

All

[1] 20.33603

UT

[1] 19.08042

LT

[1] 20.7671

UT vs LT p-value:[1] 0.3418861

6W. Pelvic Tilt - sd

All

[1] 9.170741

UT

[1] 8.980618

LT

[1] 9.449312

6M. Pelvic Tilt - mean

All

[1] 23.21298

UT

[1] 23.17511

LT

[1] 22.90656

UT vs LT p-value:[1] 0.8688681

6M. Pelvic Tilt - sd

All

[1] 8.719259

UT

[1] 8.593542

LT

[1] 7.958946

1Y. Pelvic Tilt - mean

All

[1] 23.64202

UT

[1] 23.64152

LT

[1] 23.76683

UT vs LT p-value:[1] 0.9457442

1Y. Pelvic Tilt - sd

All

[1] 9.400252

UT

[1] 10.05492

LT

[1] 8.390729

2Y. Pelvic Tilt - mean

All

[1] 23.30915

UT

[1] 23.09489

LT

[1] 23.57414

UT vs LT p-value:[1] 0.765077

2Y. Pelvic Tilt - sd

All

[1] 8.14145

UT

[1] 8.080561

LT

[1] 8.010542

5Y. Pelvic Tilt - mean

All

[1] 24.80725

UT

[1] 25.6029

LT

[1] 24.27559

UT vs LT p-value:[1] 0.5414092

5Y. Pelvic Tilt - sd

All

[1] 8.535904

UT

[1] 8.713313

LT

[1] 8.694201

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

5.736509e-07

Preop vs 2y p-value
0.001064304

Preop vs 5y p-value
0.07763912

6w vs 2y p-value
0.02565724

2y vs 5y p-value
0.2088897

6w vs 5y p-value
0.002057593

Pelvic Tilt tests LT
Preop vs 6w p-value
6.752917e-05

Preop vs 2y p-value
0.01304572

Preop vs 5y p-value
0.1029524

6w vs 2y p-value
0.08118715

2y vs 5y p-value
0.7019291

6w vs 5y p-value
0.07086717

Sacral Slope - mean
All
[1] 29.16887
UT
[1] 28.68469
LT
[1] 29.76409

UT vs LT p-value:[1] 0.6351505

Sacral Slope - sd
All
[1] 11.79675
UT
[1] 13.01713
LT
[1] 10.53582

6W. Sacral Slope - mean

All

[1] 37.1704

UT

[1] 38.43438

LT

[1] 36.87403

UT vs LT p-value:[1] 0.4666164

6W. Sacral Slope - sd

All

[1] 10.83215

UT

[1] 11.36505

LT

[1] 10.75989

6M. Sacral Slope - mean

All

[1] 34.20091

UT

[1] 34.52333

LT

[1] 34.63953

UT vs LT p-value:[1] 0.9554193

6M. Sacral Slope - sd

All

[1] 10.56087

UT

[1] 11.44759

LT

[1] 9.405277

1Y. Sacral Slope - mean

All

[1] 33.30605

UT

[1] 33.43652

LT

[1] 33.225

UT vs LT p-value:[1] 0.9144979

1Y. Sacral Slope - sd

All

[1] 9.570563

UT

[1] 11.02087

LT

[1] 8.545606

2Y. Sacral Slope - mean

All

[1] 33.79681

UT

[1] 34.25413

LT

[1] 33.59759

UT vs LT p-value:[1] 0.7484465

2Y. Sacral Slope - sd

All

[1] 10.00184

UT

[1] 10.98583

LT

[1] 9.456738

5Y. Sacral Slope - mean

All

[1] 32.33797

UT

[1] 32.22774

LT

[1] 33.01706

UT vs LT p-value:[1] 0.7323264

5Y. Sacral Slope - sd

All

[1] 9.232743

UT

[1] 9.922095

LT

[1] 8.449545

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
0.0001614065

Preop vs 2y p-value
0.02628577

Preop vs 5y p-value
0.1730269

6w vs 2y p-value
0.07304834

2y vs 5y p-value
0.40301

6w vs 5y p-value
0.01253971

Sacral Slope tests LT
Preop vs 6w p-value
0.0002468874

Preop vs 2y p-value
0.03475547

Preop vs 5y p-value
0.09824427

6w vs 2y p-value
0.0785702

2y vs 5y p-value
0.7618061

6w vs 5y p-value
0.05623723

RLL - mean
All
[1] -31.20526
UT
[1] -27.85592
LT
[1] -32.39636

UT vs LT p-value:[1] 0.154616

RLL - sd
All
[1] 16.99722
UT
[1] 16.80203
LT
[1] 16.77838

6W. RLL - mean
All
[1] -11.42754
UT
[1] -9.145833
LT
[1] -11.28629

UT vs LT p-value:[1] 0.3370016

6W. RLL - sd
All
[1] 11.9567
UT
[1] 11.50005
LT
[1] 11.594

6M. RLL - mean
All
[1] -12.80843
UT
[1] -11.07022
LT
[1] -12.05703

UT vs LT p-value:[1] 0.6174753


```
6M. RLL - sd
All
[1] 11.60084
UT
[1] 10.0016
LT
[1] 10.29455
```

```
1Y. RLL - mean
All
[1] -14.11714
UT
[1] -12.61391
LT
[1] -13.4085
```

```
UT vs LT p-value:[1] 0.7288452
```

```
1Y. RLL - sd
All
[1] 12.30395
UT
[1] 12.27742
LT
[1] 10.8009
```

```
2Y. RLL - mean
All
[1] -14.36068
UT
[1] -12.09326
LT
[1] -13.89947
```

```
UT vs LT p-value:[1] 0.4039805
```

```
2Y. RLL - sd
All
[1] 11.96885
UT
[1] 11.1951
LT
[1] 10.4542
```

5Y. RLL - mean

All

[1] -14.12043

UT

[1] -13.69226

LT

[1] -13.73882

UT vs LT p-value:[1] 0.9873371

5Y. RLL - sd

All

[1] 11.74509

UT

[1] 12.18539

LT

[1] 11.28904

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

7.735522e-09

Preop vs 2y p-value

5.801655e-07

Preop vs 5y p-value

4.000946e-05

6w vs 2y p-value

0.2111799

2y vs 5y p-value

0.5618426

6w vs 5y p-value
0.1029905

RLL tests LT
Preop vs 6w p-value
1.92115e-13

Preop vs 2y p-value
2.325444e-11

Preop vs 5y p-value
2.790424e-09

6w vs 2y p-value
0.1986092

2y vs 5y p-value
0.9463958

6w vs 5y p-value
0.3168057

Global Tilt - mean
All
[1] 37.41583
UT
[1] 38.92653
LT
[1] 36.41877

UT vs LT p-value:[1] 0.4184608

Global Tilt - sd
All
[1] 15.65997
UT
[1] 17.42111
LT
[1] 14.70759

6W. Global Tilt - mean
All
[1] 21.55992
UT
[1] 19.74587
LT
[1] 21.96746

UT vs LT p-value:[1] 0.3050412

6W. Global Tilt - sd

All

[1] 10.83496

UT

[1] 10.5807

LT

[1] 11.41784

6M. Global Tilt - mean

All

[1] 24.50067

UT

[1] 23.00636

LT

[1] 24.96547

UT vs LT p-value:[1] 0.4004804

6M. Global Tilt - sd

All

[1] 11.97089

UT

[1] 11.89371

LT

[1] 11.76929

1Y. Global Tilt - mean

All

[1] 25.85863

UT

[1] 24.41311

LT

[1] 27.14678

UT vs LT p-value:[1] 0.2963713

1Y. Global Tilt - sd

All

[1] 13.00601

UT

[1] 13.4457

LT

[1] 12.75651

```
2Y. Global Tilt - mean
All
[1] 27.43893
UT
[1] 26.4969
LT
[1] 28.09375

UT vs LT p-value:[1] 0.5298836
```

```
2Y. Global Tilt - sd
All
[1] 12.0053
UT
[1] 12.47319
LT
[1] 12.31073
```

```
5Y. Global Tilt - mean
All
[1] 29.58783
UT
[1] 28.96097
LT
[1] 30.75765

UT vs LT p-value:[1] 0.6224227
```

```
5Y. Global Tilt - sd
All
[1] 14.34015
UT
[1] 13.21061
LT
[1] 16.02301
```

```
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
5.59285e-09

Preop vs 2y p-value
0.0001586354

Preop vs 5y p-value
0.004912815

6w vs 2y p-value
0.007881775

2y vs 5y p-value
0.4229919

6w vs 5y p-value
0.002004502

Global Tilt tests LT
Preop vs 6w p-value
1.112664e-08

Preop vs 2y p-value
0.0009521047

Preop vs 5y p-value
0.09106801

6w vs 2y p-value
0.006702508

2y vs 5y p-value
0.4090431

6w vs 5y p-value
0.00687607

T1 Sagittal Tilt - mean
All
[1] 0.89531
UT
[1] 0.8575145
LT
[1] 0.8724589

UT vs LT p-value:[1] 0.9916898

T1 Sagittal Tilt - sd

All

[1] 6.901359

UT

[1] 6.946382

LT

[1] 7.298485

6W. T1 Sagittal Tilt - mean

All

[1] -3.535074

UT

[1] -3.736336

LT

[1] -3.705679

UT vs LT p-value:[1] 0.9714292

6W. T1 Sagittal Tilt - sd

All

[1] 4.071843

UT

[1] 4.556314

LT

[1] 3.57108

6M. T1 Sagittal Tilt - mean

All

[1] -4.06248

UT

[1] -5.498332

LT

[1] -3.174677

UT vs LT p-value:[1] 0.00597074

6M. T1 Sagittal Tilt - sd

All

[1] 4.353201

UT

[1] 4.022662

LT

[1] 4.249171

1Y. T1 Sagittal Tilt - mean

All

[1] -3.725109

UT

[1] -4.923439

LT

[1] -2.966462

UT vs LT p-value:[1] 0.09418523

1Y. T1 Sagittal Tilt - sd

All

[1] 5.255397

UT

[1] 6.193764

LT

[1] 4.705629

2Y. T1 Sagittal Tilt - mean

All

[1] -2.808082

UT

[1] -3.439201

LT

[1] -2.423156

UT vs LT p-value:[1] 0.3055629

2Y. T1 Sagittal Tilt - sd

All

[1] 4.720359

UT

[1] 4.545917

LT

[1] 4.865099

5Y. T1 Sagittal Tilt - mean

All

[1] -1.768644

UT

[1] -3.390563

LT

[1] 0.03445605

UT vs LT p-value:[1] 0.02231991

5Y. T1 Sagittal Tilt - sd

All
[1] 6.098895
UT
[1] 4.717571
LT
[1] 6.926982

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
0.0004759627

Preop vs 2y p-value
0.001144449

Preop vs 5y p-value
0.002342076

6w vs 2y p-value
0.7670634

2y vs 5y p-value
0.9652215

6w vs 5y p-value
0.7533782

T1 Sagittal Tilt tests LT
Preop vs 6w p-value
7.165564e-05

Preop vs 2y p-value
0.006555795

Preop vs 5y p-value
0.5872806

6w vs 2y p-value
0.1287851

2y vs 5y p-value
0.07761634

6w vs 5y p-value
0.005681698

Thoracolumbar L2-T10 - mean

All

[1] 10.09445

UT

[1] 16.55271

LT

[1] 6.202381

UT vs LT p-value:[1] 0.009809645

Thoracolumbar L2-T10 - sd

All

[1] 19.92459

UT

[1] 23.39716

LT

[1] 15.62605

6W. Thoracolumbar L2-T10 - mean

All

[1] 7.497417

UT

[1] 6.133617

LT

[1] 8.152759

UT vs LT p-value:[1] 0.2979986

6W. Thoracolumbar L2-T10 - sd

All

[1] 10.57649

UT

[1] 10.17245

LT

[1] 9.392997

6M. Thoracolumbar L2-T10 - mean
All
[1] 7.796053
UT
[1] 6.291905
LT
[1] 9.751129

UT vs LT p-value:[1] 0.07149419

6M. Thoracolumbar L2-T10 - sd
All
[1] 10.17511
UT
[1] 9.338628
LT
[1] 9.711992

1Y. Thoracolumbar L2-T10 - mean
All
[1] 7.449565
UT
[1] 6.337111
LT
[1] 9.205

UT vs LT p-value:[1] 0.1664197

1Y. Thoracolumbar L2-T10 - sd
All
[1] 10.88731
UT
[1] 10.3551
LT
[1] 10.34863

2Y. Thoracolumbar L2-T10 - mean
All
[1] 7.408621
UT
[1] 4.766444
LT
[1] 10.82107

UT vs LT p-value:[1] 0.01483952

2Y. Thoracolumbar L2-T10 - sd

All
[1] 12.79969
UT
[1] 11.04109
LT
[1] 13.49672

5Y. Thoracolumbar L2-T10 - mean

All
[1] 7.891912
UT
[1] 3.082581
LT
[1] 12.78

UT vs LT p-value:[1] 0.007065408

5Y. Thoracolumbar L2-T10 - sd

All
[1] 14.57937
UT
[1] 10.06361
LT
[1] 16.94312

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
0.006293502

Preop vs 2y p-value

0.002521864

Preop vs 5y p-value
0.000777807

6w vs 2y p-value
0.5388478

2y vs 5y p-value
0.4932721

6w vs 5y p-value
0.1966093

Thoracolumbar L2-T10 tests LT
Preop vs 6w p-value
0.4031079

Preop vs 2y p-value
0.08629132

Preop vs 5y p-value
0.06847461

6w vs 2y p-value
0.2249391

2y vs 5y p-value
0.5732357

6w vs 5y p-value
0.1549637

RSA - mean
All
[1] 24.90394
UT
[1] 26.06367
LT
[1] 24.03138

UT vs LT p-value:[1] 0.4641439

RSA - sd
All
[1] 14.09656
UT
[1] 15.81032
LT
[1] 12.85144

6W. RSA - mean

All

[1] 8.855785

UT

[1] 7.159348

LT

[1] 9.113729

UT vs LT p-value:[1] 0.2369487

6W. RSA - sd

All

[1] 8.375629

UT

[1] 7.928084

LT

[1] 8.865584

6M. RSA - mean

All

[1] 11.92252

UT

[1] 10.28182

LT

[1] 12.32828

UT vs LT p-value:[1] 0.2443634

6M. RSA - sd

All

[1] 9.382194

UT

[1] 8.51521

LT

[1] 9.484359

1Y. RSA - mean

All

[1] 13.46641

UT

[1] 11.972

LT

[1] 14.70932

UT vs LT p-value:[1] 0.1772613

1Y. RSA - sd

```
All
[1] 10.00494
UT
[1] 10.5739
LT
[1] 9.615454
```

2Y. RSA - mean

```
All
[1] 15.0433
UT
[1] 13.79429
LT
[1] 15.78571
```

UT vs LT p-value:[1] 0.3185885

2Y. RSA - sd

```
All
[1] 9.497141
UT
[1] 9.670365
LT
[1] 9.802041
```

5Y. RSA - mean

```
All
[1] 17.15725
UT
[1] 16.20097
LT
[1] 18.25647
```

UT vs LT p-value:[1] 0.4808679

5Y. RSA - sd

```
All
[1] 11.56455
UT
[1] 10.4014
LT
[1] 12.92169
```

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
1.783886e-10

Preop vs 2y p-value
1.99111e-05

Preop vs 5y p-value
0.001191172

6w vs 2y p-value
0.0007649056

2y vs 5y p-value
0.3180437

6w vs 5y p-value
0.0001421322

RSA tests LT
Preop vs 6w p-value
9.953301e-12

Preop vs 2y p-value
0.0001126156

Preop vs 5y p-value
0.03812072

6w vs 2y p-value
0.0002195756

2y vs 5y p-value
0.3412786

6w vs 5y p-value
0.0005985329


```
RPV - mean
All
[1] -13.65526
UT
[1] -14.56327
LT
[1] -12.91697

UT vs LT p-value:[1] 0.2860396
```

```
RPV - sd
All
[1] 8.352423
UT
[1] 8.973744
LT
[1] 6.838108
```

```
6W. RPV - mean
All
[1] -5.758254
UT
[1] -4.400833
LT
[1] -6.162742

UT vs LT p-value:[1] 0.2394746
```

```
6W. RPV - sd
All
[1] 7.806764
UT
[1] 7.556897
LT
[1] 7.983781
```

```
6M. RPV - mean
All
[1] -8.687934
UT
[1] -8.518667
LT
[1] -8.331094

UT vs LT p-value:[1] 0.8859282
```

```
6M. RPV - sd
```

```
All
[1] 7.161054
UT
[1] 7.053948
LT
[1] 6.164593
```

```
1Y. RPV - mean
All
[1] -9.313193
UT
[1] -9.265217
LT
[1] -9.419833
```

```
UT vs LT p-value:[1] 0.9136583
```

```
1Y. RPV - sd
All
[1] 7.166444
UT
[1] 8.177811
LT
[1] 5.830123
```

```
2Y. RPV - mean
All
[1] -8.755294
UT
[1] -8.247174
LT
[1] -9.103103
```

```
UT vs LT p-value:[1] 0.5173185
```

```
2Y. RPV - sd
All
[1] 6.653436
UT
[1] 7.028439
LT
[1] 6.186714
```

```
5Y. RPV - mean
All
[1] -10.37768
```

UT
[1] -10.89226
LT
[1] -9.785588

UT vs LT p-value:[1] 0.4923841

5Y. RPV - sd
All
[1] 6.396002
UT
[1] 6.607279
LT
[1] 6.278502

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
3.184183e-08

Preop vs 2y p-value
0.0002351296

Preop vs 5y p-value
0.0389132

6w vs 2y p-value
0.01221239

2y vs 5y p-value
0.09781836

6w vs 5y p-value

0.0001409533

RPV tests LT

Preop vs 6w p-value

1.145975e-06

Preop vs 2y p-value

0.001443021

Preop vs 5y p-value

0.02488087

6w vs 2y p-value

0.02551705

2y vs 5y p-value

0.614493

6w vs 5y p-value

0.01642413

Quality of Life

ODI - Score (%) - mean

All

[1] 45.38583

UT

[1] 43.30612

LT

[1] 48.29508

UT vs LT p-value:[1] 0.138456

ODI - Score (%) - sd

All

[1] 17.30953

UT

[1] 18.32599

LT

[1] 16.19295

6M. ODI - Score (%) - mean

All

[1] 33.18852

UT

[1] 32.32609

LT

[1] 33.29688

UT vs LT p-value:[1] 0.7860108

6M. ODI - Score (%) - sd

All

[1] 18.95071

UT

[1] 18.2733

LT

[1] 18.68849

1Y. ODI - Score (%) - mean

All

[1] 32.06504

UT

[1] 31.21277

LT

[1] 32.5082

UT vs LT p-value:[1] 0.6991855

1Y. ODI - Score (%) - sd

All

[1] 17.90674

UT

[1] 18.49669

LT

[1] 15.39764

2Y. ODI - Score (%) - mean

All

[1] 34.96774

UT

[1] 30.85106

LT

[1] 36.91667

UT vs LT p-value:[1] 0.1562687

2Y. ODI - Score (%) - sd

All

[1] 22.68768

UT

[1] 22.03651

LT

[1] 21.48258

5Y. ODI - Score (%) - mean

All

[1] 37.46875

UT

[1] 34.925

LT

[1] 38.46

UT vs LT p-value:[1] 0.4803839

5Y. ODI - Score (%) - sd

All

[1] 23.45071

UT

[1] 26.02601

LT

[1] 19.87123

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

6.517998e-34

ODI - Score (%) tests UT

Preop vs 6m p-value

0.004359141

Preop vs 2y p-value

0.003450846

Preop vs 5y p-value

0.09027846

6m vs 2y p-value

0.72591

2y vs 5y p-value

0.4376713

6w vs 5y p-value
1.817713e-12

ODI - Score (%) tests LT
Preop vs 6m p-value
9.37933e-06

Preop vs 2y p-value
0.001365108

Preop vs 5y p-value
0.005919652

6m vs 2y p-value
0.2378699

2y vs 5y p-value
0.6966599

6w vs 5y p-value
3.60124e-22

SRS22 - Function / Activity - mean
All
[1] 2.737
UT
[1] 2.8456
LT
[1] 2.591613

UT vs LT p-value:[1] 0.05511297

SRS22 - Function / Activity - sd
All
[1] 0.7049566
UT
[1] 0.6986055
LT
[1] 0.6764909

6M. SRS22 - Function / Activity - mean
All
[1] 2.990574
UT
[1] 3.040217
LT
[1] 2.98125

UT vs LT p-value:[1] 0.6407194

6M. SRS22 - Function / Activity - sd
All
[1] 0.7217498
UT
[1] 0.5369274
LT
[1] 0.7841435

1Y. SRS22 - Function / Activity - mean
All
[1] 3.076371
UT
[1] 3.071875
LT
[1] 3.006774

UT vs LT p-value:[1] 0.6580784

1Y. SRS22 - Function / Activity - sd
All
[1] 0.779309
UT
[1] 0.7852975
LT
[1] 0.7326524

2Y. SRS22 - Function / Activity - mean
All
[1] 3.149032
UT
[1] 3.244681
LT
[1] 3.123443

UT vs LT p-value:[1] 0.464053

2Y. SRS22 - Function / Activity - sd
All
[1] 0.8607866
UT
[1] 0.880417
LT
[1] 0.8080262


```
5Y. SRS22 - Function / Activity - mean
All
[1] 3.186735
UT
[1] 3.3325
LT
[1] 3.107843
```

```
UT vs LT p-value:[1] 0.2540803
```

```
5Y. SRS22 - Function / Activity - sd
All
[1] 0.9242593
UT
[1] 0.9881704
LT
[1] 0.8391885
```

```
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
3.606983e-13
```

```
SRS22 - Function / Activity tests UT
Preop vs 6m p-value
0.1276993
```

```
Preop vs 2y p-value
0.01573023
```

```
Preop vs 5y p-value
0.01044835
```

```
6m vs 2y p-value
0.1793191
```

```
2y vs 5y p-value
```

0.6653166

6w vs 5y p-value
2.067139e-13

SRS22 - Function / Activity tests LT
Preop vs 6m p-value
0.0002102953

Preop vs 2y p-value
0.0001318648

Preop vs 5y p-value
0.0006075494

6m vs 2y p-value
0.5243242

2y vs 5y p-value
0.9208224

6w vs 5y p-value
4.909452e-13

SRS22 - Pain - mean
All
[1] 2.301538
UT
[1] 2.3044
LT
[1] 2.216935

UT vs LT p-value:[1] 0.571902

SRS22 - Pain - sd
All
[1] 0.8126304
UT
[1] 0.8158936
LT
[1] 0.8060195

6M. SRS22 - Pain - mean
All
[1] 3.313525
UT
[1] 3.323913
LT
[1] 3.31875

UT vs LT p-value:[1] 0.9749666

6M. SRS22 - Pain - sd

All

[1] 0.8821938

UT

[1] 0.7756531

LT

[1] 0.9419879

1Y. SRS22 - Pain - mean

All

[1] 3.368468

UT

[1] 3.338542

LT

[1] 3.386935

UT vs LT p-value:[1] 0.8053658

1Y. SRS22 - Pain - sd

All

[1] 1.008803

UT

[1] 1.071797

LT

[1] 0.9456346

2Y. SRS22 - Pain - mean

All

[1] 3.308871

UT

[1] 3.551064

LT

[1] 3.244262

UT vs LT p-value:[1] 0.1586165

2Y. SRS22 - Pain - sd

All

[1] 1.157409

UT

[1] 1.056784

LT

[1] 1.182444

5Y. SRS22 - Pain - mean

All

[1] 3.087245

UT

[1] 3.1325

LT

[1] 3.071569

UT vs LT p-value:[1] 0.8142032

5Y. SRS22 - Pain - sd

All

[1] 1.201338

UT

[1] 1.309803

LT

[1] 1.103325

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

5.316567e-13

SRS22 - Pain tests UT

Preop vs 6m p-value

1.065709e-08

Preop vs 2y p-value

5.538537e-09

Preop vs 5y p-value

0.0008853114

6m vs 2y p-value

0.2399515

2y vs 5y p-value

0.1091694

6w vs 5y p-value
4.671229e-13

SRS22 - Pain tests LT
Preop vs 6m p-value
1.115399e-10

Preop vs 2y p-value
1.556111e-07

Preop vs 5y p-value
1.326198e-05

6m vs 2y p-value
0.6755068

2y vs 5y p-value
0.4264022

6w vs 5y p-value
5.712676e-13

SRS22 - Self image / Appearance - mean
All
[1] 2.049846
UT
[1] 1.87
LT
[1] 2.135484

UT vs LT p-value:[1] 0.01954816

SRS22 - Self image / Appearance - sd
All
[1] 0.6234338
UT
[1] 0.5035588
LT
[1] 0.6809099

6M. SRS22 - Self image / Appearance - mean
All
[1] 3.304918
UT
[1] 3.481522
LT
[1] 3.235156

UT vs LT p-value:[1] 0.1421289

6M. SRS22 - Self image / Appearance - sd
All
[1] 0.8756676
UT
[1] 0.8941389
LT
[1] 0.8120462

1Y. SRS22 - Self image / Appearance - mean
All
[1] 3.332258
UT
[1] 3.34625
LT
[1] 3.322258

UT vs LT p-value:[1] 0.8747993

1Y. SRS22 - Self image / Appearance - sd
All
[1] 0.7851455
UT
[1] 0.8711294
LT
[1] 0.669875

2Y. SRS22 - Self image / Appearance - mean
All
[1] 3.193548
UT
[1] 3.429787
LT
[1] 3.07541

UT vs LT p-value:[1] 0.0580529

2Y. SRS22 - Self image / Appearance - sd
All
[1] 0.9629935
UT
[1] 1.013209
LT
[1] 0.8638877

```
5Y. SRS22 - Self image / Appearance - mean
All
[1] 3.084184
UT
[1] 3.2875
LT
[1] 2.963725
```

```
UT vs LT p-value:[1] 0.1417772
```

```
5Y. SRS22 - Self image / Appearance - sd
All
[1] 1.012794
UT
[1] 1.140218
LT
[1] 0.8744758
```

```
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
5.367606e-13
```

```
SRS22 - Self image / Appearance tests UT
Preop vs 6m p-value
1.892906e-16
```

```
Preop vs 2y p-value
5.130801e-14
```

```
Preop vs 5y p-value
1.721936e-09
```

```
6m vs 2y p-value
0.7945165
```

```
2y vs 5y p-value
```

0.543378

6w vs 5y p-value
2.487551e-13

SRS22 - Self image / Appearance tests LT
Preop vs 6m p-value
6.535681e-13

Preop vs 2y p-value
8.544067e-10

Preop vs 5y p-value
2.967336e-07

6m vs 2y p-value
0.02032001

2y vs 5y p-value
0.4999885

6w vs 5y p-value
8.610168e-13

SRS22 - Mental health - mean
All
[1] 2.921385
UT
[1] 2.916
LT
[1] 2.915806

UT vs LT p-value:[1] 0.9991302

SRS22 - Mental health - sd
All
[1] 0.8953279
UT
[1] 0.9963935
LT
[1] 0.8443827

6M. SRS22 - Mental health - mean
All
[1] 3.406639
UT
[1] 3.554348
LT
[1] 3.367344

UT vs LT p-value:[1] 0.2727963

6M. SRS22 - Mental health - sd
All
[1] 0.8748881
UT
[1] 0.881339
LT
[1] 0.8712703

1Y. SRS22 - Mental health - mean
All
[1] 3.475403
UT
[1] 3.55
LT
[1] 3.479839

UT vs LT p-value:[1] 0.674828

1Y. SRS22 - Mental health - sd
All
[1] 0.8549591
UT
[1] 0.8986988
LT
[1] 0.8247931

2Y. SRS22 - Mental health - mean
All
[1] 3.331855
UT
[1] 3.565957
LT
[1] 3.254918

UT vs LT p-value:[1] 0.1108344

2Y. SRS22 - Mental health - sd
All
[1] 1.008527
UT
[1] 1.079709
LT
[1] 0.8725301

5Y. SRS22 - Mental health - mean
All
[1] 3.298469
UT
[1] 3.445
LT
[1] 3.228431

UT vs LT p-value:[1] 0.3188781

5Y. SRS22 - Mental health - sd
All
[1] 1.00202
UT
[1] 1.079874
LT
[1] 0.9434116

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
2.342302e-13

SRS22 - Mental health tests UT
Preop vs 6m p-value
0.001241491

Preop vs 2y p-value
0.002757877

Preop vs 5y p-value
0.01920686

6m vs 2y p-value
0.9547857

2y vs 5y p-value

0.6039477

6w vs 5y p-value
1.338575e-13

SRS22 - Mental health tests LT
Preop vs 6m p-value
0.0002647627

Preop vs 2y p-value
0.03045711

Preop vs 5y p-value
0.0690852

6m vs 2y p-value
0.08376415

2y vs 5y p-value
0.8786229

6w vs 5y p-value
3.080019e-13

SRS22 - SRS Subtotal score - mean
All
[1] 2.506231
UT
[1] 2.4838
LT
[1] 2.472419

UT vs LT p-value:[1] 0.9191315

SRS22 - SRS Subtotal score - sd
All
[1] 0.5888871
UT
[1] 0.575166
LT
[1] 0.6042763

6M. SRS22 - SRS Subtotal score - mean
All
[1] 3.255492
UT
[1] 3.354565
LT
[1] 3.222812

UT vs LT p-value:[1] 0.2892153

6M. SRS22 - SRS Subtotal score - sd

All

[1] 0.6756633

UT

[1] 0.5995728

LT

[1] 0.6919778

1Y. SRS22 - SRS Subtotal score - mean

All

[1] 3.323145

UT

[1] 3.337083

LT

[1] 3.31

UT vs LT p-value:[1] 0.8439715

1Y. SRS22 - SRS Subtotal score - sd

All

[1] 0.7107804

UT

[1] 0.760193

LT

[1] 0.648835

2Y. SRS22 - SRS Subtotal score - mean

All

[1] 3.242903

UT

[1] 3.44234

LT

[1] 3.172131

UT vs LT p-value:[1] 0.1044387

2Y. SRS22 - SRS Subtotal score - sd

All

[1] 0.8732081

UT

[1] 0.8767559

LT

[1] 0.8120983

5Y. SRS22 - SRS Subtotal score - mean
All
[1] 3.16602
UT
[1] 3.299
LT
[1] 3.095882

UT vs LT p-value:[1] 0.2994017

5Y. SRS22 - SRS Subtotal score - sd
All
[1] 0.9081858
UT
[1] 1.002407
LT
[1] 0.8033136

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
3.907577e-13

SRS22 - SRS Subtotal score tests UT
Preop vs 6m p-value
1.243987e-10

Preop vs 2y p-value
1.434867e-08

Preop vs 5y p-value
2.489603e-05

6m vs 2y p-value
0.5739062

2y vs 5y p-value

0.4836256

6w vs 5y p-value
2.35703e-13

SRS22 - SRS Subtotal score tests LT
Preop vs 6m p-value
2.506969e-11

Preop vs 2y p-value
3.605091e-07

Preop vs 5y p-value
1.476828e-05

6m vs 2y p-value
0.1842041

2y vs 5y p-value
0.6196713

6w vs 5y p-value
5.138926e-13

SF36 - PCS - mean
All
[1] 33.1957
UT
[1] 33.13163
LT
[1] 32.13869

UT vs LT p-value:[1] 0.4785594

SF36 - PCS - sd
All
[1] 7.609383
UT
[1] 7.726337
LT
[1] 6.671866

6M. SF36 - PCS - mean
All
[1] 37.69933
UT
[1] 38.14682
LT
[1] 37.61794

UT vs LT p-value:[1] 0.7451637

6M. SF36 - PCS - sd

All

[1] 8.544207

UT

[1] 8.514085

LT

[1] 7.872421

1Y. SF36 - PCS - mean

All

[1] 38.61164

UT

[1] 39.04565

LT

[1] 37.6829

UT vs LT p-value:[1] 0.3905862

1Y. SF36 - PCS - sd

All

[1] 8.712728

UT

[1] 8.086252

LT

[1] 8.16609

2Y. SF36 - PCS - mean

All

[1] 39.15934

UT

[1] 40.25289

LT

[1] 38.36984

UT vs LT p-value:[1] 0.3206407

2Y. SF36 - PCS - sd

All

[1] 9.848393

UT

[1] 9.940389

LT

[1] 9.107156

```
5Y. SF36 - PCS - mean
All
[1] 37.41546
UT
[1] 38.6955
LT
[1] 36.3664

UT vs LT p-value:[1] 0.3195528
```

```
5Y. SF36 - PCS - sd
All
[1] 11.20565
UT
[1] 11.60901
LT
[1] 10.08994
```

```
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
1.018515e-63
```

```
SF36 - PCS tests UT
Preop vs 6m p-value
0.003930214
```

```
Preop vs 2y p-value
0.0002282296
```

```
Preop vs 5y p-value
0.01158439
```

```
6m vs 2y p-value
0.285715
```

```
2y vs 5y p-value
```


0.5111

6w vs 5y p-value
1.652374e-30

SF36 - PCS tests LT
Preop vs 6m p-value
0.0002039053

Preop vs 2y p-value
3.558592e-05

Preop vs 5y p-value
0.01290518

6m vs 2y p-value
0.8979378

2y vs 5y p-value
0.2795708

6w vs 5y p-value
7.836835e-42

SF36 - MCS - mean
All
[1] 40.67375
UT
[1] 41.95776
LT
[1] 40.10754

UT vs LT p-value:[1] 0.433693

SF36 - MCS - sd
All
[1] 12.09412
UT
[1] 12.85983
LT
[1] 11.48953

6M. SF36 - MCS - mean
All
[1] 45.60563
UT
[1] 47.8525
LT
[1] 45.77825

UT vs LT p-value:[1] 0.3853768

6M. SF36 - MCS - sd

All

[1] 12.25145

UT

[1] 11.95693

LT

[1] 12.31679

1Y. SF36 - MCS - mean

All

[1] 45.48172

UT

[1] 44.99196

LT

[1] 46.68952

UT vs LT p-value:[1] 0.5068176

1Y. SF36 - MCS - sd

All

[1] 12.54993

UT

[1] 14.05073

LT

[1] 11.66205

2Y. SF36 - MCS - mean

All

[1] 45.13557

UT

[1] 46.27711

LT

[1] 45.40738

UT vs LT p-value:[1] 0.7166485

2Y. SF36 - MCS - sd

All

[1] 12.23986

UT

[1] 12.33076

LT

[1] 11.91885

```
5Y. SF36 - MCS - mean
All
[1] 44.58361
UT
[1] 45.99475
LT
[1] 44.1556

UT vs LT p-value:[1] 0.4863939
```

```
5Y. SF36 - MCS - sd
All
[1] 12.32628
UT
[1] 12.70002
LT
[1] 12.01214
```

```
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
9.336918e-70
```

```
SF36 - MCS tests UT
Preop vs 6m p-value
0.02431659
```

```
Preop vs 2y p-value
0.09991349
```

```
Preop vs 5y p-value
0.1417428
```

```
6m vs 2y p-value
0.5421883
```

```
2y vs 5y p-value
```

0.9176471

6w vs 5y p-value
2.529305e-31

SF36 - MCS tests LT
Preop vs 6m p-value
0.001262495

Preop vs 2y p-value
0.01375908

Preop vs 5y p-value
0.07457433

6m vs 2y p-value
0.3032342

2y vs 5y p-value
0.5847462

6w vs 5y p-value
1.33258e-40

Surgery

Total Operative Blood Loss st1+st2+st3 - mean

All

[1] 2038.088

UT

[1] 1995.022

LT

[1] 2132.302

UT vs LT p-value:[1] 0.5900444

Total Operative Blood Loss st1+st2+st3 - sd

All

[1] 1491.783

UT

[1] 1280.577

LT

[1] 1329.364

Total surgical time st1+st2+st3 - mean

All

[1] 315.8284

UT

[1] 322

LT

[1] 334.7879

UT vs LT p-value:[1] 0.7179277

Total surgical time st1+st2+st3 - sd

All

[1] 181.9499

UT

[1] 205.9294

LT

[1] 161.9307

Number of Posterior Instrumented Levels - mean

All

[1] 10.67442

UT

[1] 14.51064

LT

[1] 9.265625

UT vs LT p-value:[1] 1.626679e-16

Number of Posterior Instrumented Levels - sd

All

[1] 3.708442

UT

[1] 2.918251

LT

[1] 0.8589803

Pelvic fixation - table

All

variable

Yes

134

UT

variable

Yes

50

LT

variable

Yes

66

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
2	41
Posterior-Anterior	Posterior-Posterior-Anterior
6	1

LT

variable

Posterior	Posterior-Anterior
62	4

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
0.04	0.82
Posterior-Anterior	Posterior-Posterior-Anterior
0.12	0.02

LT

variable

Posterior	Posterior-Anterior
0.93939394	0.06060606

Number of Interbody Fusions - mean

All

[1] 1.171642

UT

[1] 1.22
LT
[1] 1.272727

UT vs LT p-value:[1] 0.8399707

Number of Interbody Fusions - sd
All
[1] 1.283359
UT
[1] 1.555635
LT
[1] 1.130629

Decompression - table
All
variable
No Yes
101 33
UT
variable
No Yes
42 8
LT
variable
No Yes
49 17

Decompression - proportion
All
variable
No Yes
0.7537313 0.2462687
UT
variable
No Yes
0.84 0.16
LT
variable
No Yes
0.7424242 0.2575758

Interbody Fusion - table
All
variable
No Yes
52 82
UT
variable

No Yes
 19 31
 LT
 variable
 No Yes
 23 43

Interbody Fusion - proportion

All
 variable
 No Yes
 0.3880597 0.6119403
 UT
 variable
 No Yes
 0.38 0.62
 LT
 variable
 No Yes
 0.3484848 0.6515152

Osteotomy - table

All
 variable
 No Yes
 53 81
 UT
 variable
 No Yes
 21 29
 LT
 variable
 No Yes
 27 39

Osteotomy - proportion

All
 variable
 No Yes
 0.3955224 0.6044776
 UT
 variable
 No Yes
 0.42 0.58
 LT
 variable
 No Yes
 0.4090909 0.5909091

3C0 - table


```

All
variable
  No Yes
100  34
UT
variable
  No Yes
  41   9
LT
variable
  No Yes
  49  17

3CO - proportion
All
variable
  No      Yes
0.7462687 0.2537313
UT
variable
  No  Yes
0.82 0.18
LT
variable
  No      Yes
0.7424242 0.2575758

```

Reinterventions

```

      group reiqs patients total
1:   all    168         56    134
2:   UT     62         20     50
3:   LT     91         28     66

      p_val_1_total p_val_2_total p_val_1_2
1 1.774297e-12 1.976333e-06 0.02328012

```

Impacts

```

Complication Impact all_num all_patients UT_num UT_patients LT_num
1:           0         1         1         0         0         1
2:      Adverse Event         4         3         1         1         0
3: Major Complication        197        65        66        22        105
4: Minor Complication        162        83        59        29         84
      LT_patients total_all UT LT p_val_1_total p_val_2_total p_val_1_2
1:           1        134 50 66 1.000000e+00 1.0000000000 1.00000000
2:           0        134 50 66 6.250000e-01 0.2500000000 1.00000000
3:          33        134 50 66 4.348703e-06 0.0016005802 0.1770014
4:          43        134 50 66 3.290846e-07 0.0004639398 0.1249182

```

Categories

	Category of the complication	all_num	all_patients	UT_num	UT_patients			
1:	Central neurologic complications	2	2	1	1			
2:	Iatrogenic	32	25	11	8			
3:	Infectious complications	18	14	5	4			
4:	Mechanical complications	197	85	78	31			
5:	Other complications	70	36	19	11			
6:	Pain	10	10	5	5			
7:	Peripheral neurologic complications	35	28	7	6			
	LT_num	LT_patients	total_all	UT	LT	p_val_1_total	p_val_2_total	p_val_1_2
1:	0	0	134	50	66	1.000000e+00	0.5000000000	1.00000000
2:	17	14	134	50	66	4.551384e-03	0.1081290214	0.28627872
3:	7	6	134	50	66	3.088379e-02	0.1153182983	0.75390625
4:	104	46	134	50	66	5.444609e-07	0.0008320421	0.11001560
5:	40	22	134	50	66	3.460011e-04	0.0869488997	0.08014331
6:	4	4	134	50	66	3.017578e-01	0.1795654297	1.00000000
7:	18	14	134	50	66	1.951256e-04	0.0435585219	0.11531830