Pelvis UT vs Pelvis LT

Initial Patients: 372

With Posterior Instrumented Fusion: 348

Posterior Instrumental Fusion is Iliac: 134

- Upper Thoracic (UT): T2-T6-Pelvis
- Lower Thoracic (LT): T7-T12- Iliac

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

P-valor ASA 1 UT vs LT

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

[1] 0.08823184

P-valor 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
Degenerative   Idiopathic  Scheuermann     Syndromic
           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
Degenerative   Idiopathic  Scheuermann     Syndromic
  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    84       44   134
2:    UT    20        9    28
3:    LT    53       28    88


  p_val_1_total p_val_2_total   p_val_1_2
1  1.220851e-06    0.07636915 0.002563208
```

Impacts

```
   Complication Impact all_num all_patients UT_num UT_patients LT_num
1:                   0       1            1      0           0      1
2:  Major Complication     100           51     22          10     61
3:  Minor Complication      95           62     15          12     69
   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:          33       134 28 88  9.624425e-08    0.06297226 6.061066e-04
3:          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       5         5        1          1
3:           Infectious complications       15       13        4          4
4:          Mechanical complications        96       65       16         12
5:               Other complications        51       27       11          5
6:                               Pain        5         5        2          2
7: Peripheral neurologic complications      23       20        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:      4           4       134 28 88  2.187500e-01    1.00000000 3.750000e-01
3:      5           5       134 28 88  4.904175e-02    0.09625244 1.000000e+00
4:     72          47       134 28 88  5.917715e-10    0.10778228 5.125629e-06
5:     34          21       134 28 88  1.130742e-04    0.47087901 2.493918e-03
6:      3           3       134 28 88  4.531250e-01    0.72656250 1.000000e+00
7:     13          11       134 28 88  4.882812e-04    0.14961278 5.737305e-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       3         3         0          0
3:           Infectious complications       14       12         4          4
4:          Mechanical complications        55       37         9          7
5:               Other complications        20       14         5          3
6:                               Pain        3         3         2          2
7: Peripheral neurologic complications       4        4         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:      3           3       134 28 88  2.500000e-01    1.00000000 0.250000000
3:      4           4       134 28 88  7.681274e-02    0.07681274 1.000000000
4:     39          24       134 28 88  5.299582e-06    0.12373144 0.003326893
5:     12          10       134 28 88  1.272583e-02    0.54125619 0.092285156
6:      1           1       134 28 88  1.000000e+00    0.62500000 1.000000000
7:      2           2       134 28 88  6.875000e-01    0.68750000 1.000000000
```

From 2Y - 5Y

Reinterventions

```
   group reiqs patients total
1:   all    32       20   134
2:    UT     9        6    28
3:    LT    22       13    88
```

```
  p_val_1_total p_val_2_total p_val_1_2
1   0.009355307     0.2962064 0.1670685
```

Impacts

```
   Complication Impact all_num all_patients UT_num UT_patients LT_num
```

```
1:        Adverse Event       1            1       0            0       0
2:  Major Complication       33           21       9            6      23
3:  Minor Complication       22           21       6            6      14
   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:          13      134 28 88   0.005924612    0.2294810 0.1670685
```

Categories

```
   Category of the complication all_num all_patients UT_num UT_patients LT_num
1:                    Iatrogenic       2            2      2            2      0
2:       Mechanical complications      51           36     13           10     34
3:                          Pain       3            3      0            0      3
   LT_patients total_all UT LT p_val_1_total p_val_2_total  p_val_1_2
1:           0      134 28 88   1.0000000000    0.5000000 0.50000000
2:          23      134 28 88   0.0001564172    0.1174774 0.03508203
3:           3      134 28 88   0.2500000000    1.0000000 0.25000000
```

Categories Major Complications

```
   Category of the complication all_num all_patients UT_num UT_patients LT_num
1:                    Iatrogenic       2            2      2            2      0
2:       Mechanical complications      29           18      7            5     21
3:                          Pain       2            2      0            0      2
   LT_patients total_all UT LT p_val_1_total p_val_2_total p_val_1_2
1:           0      134 28 88   1.00000000    0.5000000 0.5000000
2:          12      134 28 88   0.01062202    0.3615946 0.1434631
3:           2      134 28 88   0.50000000    1.0000000 0.5000000
```