LIV L4/L5

Initial Patients: 372

With Posterior Instrumented Fusion & Number of Posterior Instrumented Levels > 3: 303

```
    type  N
1:    L5 34
2:    L4 38
```

Patients who end up intrumented until pelvis

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

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

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

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

```
    type V1
1:    L5  8
2:    L4  1
```

UIV frequencies

```
     uiv  N
 1:   L1  7
 2:   L2  3
 3:  T10 19
 4:  T11  3
 5:  T12  1
 6:   T2  7
 7:   T3  8
 8:   T4 10
 9:   T5  3
10:   T6  1
11:   T7  1
12:   T8  3
13:   T9  6
```

P-valor ASA 1 L4 vs L5

```
   treatment asa_1  N
1:       L5     8 34
2:       L4    16 38
```

[1] 0.1559404

P-valor Prior Spine Surgery Yes L4 vs L5

```
   treatment prior_yes  N
1:       L5        10 34
2:       L4         5 38
```

[1] 0.1600936

Demographics

```
Age - mean
All
[1] 48.31
L4
[1] 44.32
L5
[1] 52.76
```

L4 vs L5 p-value:[1] 0.02973694

```
Age - sd
All
[1] 16.52
L4
[1] 15.73
L5
[1] 16.46
```

```
Gender - table
All
variable
Female   Male
    61     11
L4
variable
Female   Male
    32      6
L5
variable
Female   Male
    29      5

Gender - proportion
```

```
All
variable
   Female      Male
0.8472222 0.1527778
L4
variable
   Female      Male
0.8421053 0.1578947
L5
variable
   Female      Male
0.8529412 0.1470588
```

Prior Spine Surgery - table
```
All
variable
 No Yes
 57  15
L4
variable
 No Yes
 33   5
L5
variable
 No Yes
 24  10
```

Prior Spine Surgery - proportion
```
All
variable
        No       Yes
0.7916667 0.2083333
L4
variable
        No       Yes
0.8684211 0.1315789
L5
variable
        No       Yes
0.7058824 0.2941176
```

Height (cm)_First Visit - mean
```
All
[1] 162.67
L4
[1] 164.18
L5
[1] 160.97
```

L4 vs L5 p-value:[1] 0.1340136

```
Height (cm)_First Visit - sd
All
[1] 9.05
L4
[1] 8.86
L5
[1] 9.08




Weight (kgs)_First Visit - mean
All
[1] 65.32
L4
[1] 64.76
L5
[1] 65.94

L4 vs L5 p-value:[1] 0.6763335


Weight (kgs)_First Visit - sd
All
[1] 11.84
L4
[1] 11.96
L5
[1] 11.86




BMI_First Visit - mean
All
[1] 24.82
L4
[1] 24.12
L5
[1] 25.6

L4 vs L5 p-value:[1] 0.1984229


BMI_First Visit - sd
All
[1] 4.8
L4
[1] 4.56
L5
[1] 5.02
```

```
ASA classification - table
All
variable
 1  2  3
24 42  6
L4
variable
 1  2  3
16 19  3
L5
variable
 1  2  3
 8 23  3


ASA classification - proportion
All
variable
         1          2          3
0.33333333 0.58333333 0.08333333
L4
variable
         1          2          3
0.42105263 0.50000000 0.07894737
L5
variable
         1          2          3
0.23529412 0.67647059 0.08823529




Tobacco use_First Visit - table
All
variable
 Current        Ex Non-User
     13        14        45
L4
variable
 Current        Ex Non-User
      7         9        22
L5
variable
 Current        Ex Non-User
      6         5        23

Tobacco use_First Visit - proportion
All
variable
  Current         Ex  Non-User
0.1805556 0.1944444 0.6250000
L4
variable
  Current         Ex  Non-User
0.1842105 0.2368421 0.5789474
L5
```

```
variable
  Current        Ex  Non-User
0.1764706 0.1470588 0.6764706




ESSG Diagnosis - table
All
variable
    Congenital   Degenerative   Failed-back      Idiopathic Post-traumatic
            2            11             5              47               5
     Syndromic
            2
L4
variable
  Degenerative    Failed-back     Idiopathic Post-traumatic      Syndromic
            2             1            30               4               1
L5
variable
    Congenital   Degenerative   Failed-back      Idiopathic Post-traumatic
            2             9             4              17               1
     Syndromic
            1

ESSG Diagnosis - proportion
All
variable
    Congenital   Degenerative   Failed-back      Idiopathic Post-traumatic
    0.02777778     0.15277778    0.06944444      0.65277778      0.06944444
     Syndromic
    0.02777778
L4
variable
  Degenerative    Failed-back     Idiopathic Post-traumatic      Syndromic
    0.05263158     0.02631579    0.78947368      0.10526316      0.02631579
L5
variable
    Congenital   Degenerative   Failed-back      Idiopathic Post-traumatic
    0.05882353     0.26470588    0.11764706      0.50000000      0.02941176
     Syndromic
    0.02941176




Surgical Approach - table
All
variable
 Anterior-Posterior              Posterior Posterior-Posterior
                  1                     70                    1
L4
variable
Posterior
       38
L5
```

6

```
variable
 Anterior-Posterior              Posterior Posterior-Posterior
                 1                     32                     1

Surgical Approach - proportion
All
variable
 Anterior-Posterior              Posterior Posterior-Posterior
         0.01388889             0.97222222             0.01388889
L4
variable
Posterior
        1
L5
variable
 Anterior-Posterior              Posterior Posterior-Posterior
         0.02941176             0.94117647             0.02941176
```

Radiology

```
Static Major curve Cobb angle - mean
All
[1] 49.23
L4
[1] 50.86
L5
[1] 47.5

L4 vs L5 p-value:[1] 0.5568307


Static Major curve Cobb angle - sd
All
[1] 23.23
L4
[1] 21.71
L5
[1] 24.96



6W. Static Major curve Cobb angle - mean
All
[1] 24.92
L4
[1] 24.45
L5
[1] 25.39

L4 vs L5 p-value:[1] 0.8203344


6W. Static Major curve Cobb angle - sd
```

```
All
[1] 16.38
L4
[1] 14.56
L5
[1] 18.28




6M. Static Major curve Cobb angle - mean
All
[1] 25.64
L4
[1] 24.42
L5
[1] 27.07

L4 vs L5 p-value:[1] 0.5417833


6M. Static Major curve Cobb angle - sd
All
[1] 16.7
L4
[1] 15.02
L5
[1] 18.64




1Y. Static Major curve Cobb angle - mean
All
[1] 22.88
L4
[1] 21.74
L5
[1] 24.17

L4 vs L5 p-value:[1] 0.5552403


1Y. Static Major curve Cobb angle - sd
All
[1] 16.62
L4
[1] 15.18
L5
[1] 18.27




2Y. Static Major curve Cobb angle - mean
All
[1] 25.26
```

```
L4
[1] 24
L5
[1] 26.65

L4 vs L5 p-value:[1] 0.5668644


2Y. Static Major curve Cobb angle - sd
All
[1] 17.19
L4
[1] 13.6
L5
[1] 20.62



5Y. Static Major curve Cobb angle - mean
All
[1] 30.88
L4
[1] 30.16
L5
[1] 31.54

L4 vs L5 p-value:[1] 0.8143882


5Y. Static Major curve Cobb angle - sd
All
[1] 18.6
L4
[1] 15.56
L5
[1] 21.34



Static Major curve Cobb angle tests all
Preop vs 6w p-value
1.542859e-10

Preop vs 2y p-value
8.133406e-10

Preop vs 5y p-value
1.860763e-05

6w vs 2y p-value
0.9103701

2y vs 5y p-value
0.1317268
```

6w vs 5y p-value
0.09908464

Static Major curve Cobb angle tests L4
Preop vs 6w p-value
1.688748e-07

Preop vs 2y p-value
9.57211e-08

Preop vs 5y p-value
0.0001899849

6w vs 2y p-value
0.8971691

2y vs 5y p-value
0.1635667

6w vs 5y p-value
0.2012395

Static Major curve Cobb angle tests L5
Preop vs 6w p-value
0.0001362708

Preop vs 2y p-value
0.0007119751

Preop vs 5y p-value
0.01570896

6w vs 2y p-value
0.8045245

2y vs 5y p-value
0.4249248

6w vs 5y p-value
0.2846254

Coronal Balance (C7PL to CSVL) - mean
All
[1] 19.71
L4
[1] 19.73
L5
[1] 19.68

L4 vs L5 p-value:[1] 0.9893358

Coronal Balance (C7PL to CSVL) - sd

```
All
[1] 12.89
L4
[1] 11.51
L5
[1] 14.64
```



```
6W. Coronal Balance (C7PL to CSVL) - mean
All
[1] 22.88
L4
[1] 23.2
L5
[1] 22.52
```

```
L4 vs L5 p-value:[1] 0.8748632
```



```
6W. Coronal Balance (C7PL to CSVL) - sd
All
[1] 16.83
L4
[1] 15.65
L5
[1] 18.35
```



```
6M. Coronal Balance (C7PL to CSVL) - mean
All
[1] 17.65
L4
[1] 14.62
L5
[1] 21.25
```

```
L4 vs L5 p-value:[1] 0.08939041
```



```
6M. Coronal Balance (C7PL to CSVL) - sd
All
[1] 14.19
L4
[1] 9.79
L5
[1] 17.62
```



```
1Y. Coronal Balance (C7PL to CSVL) - mean
All
[1] 16.2
```

```
L4
[1] 13.13
L5
[1] 20.26

L4 vs L5 p-value:[1] 0.02619742


1Y. Coronal Balance (C7PL to CSVL) - sd
All
[1] 11.47
L4
[1] 8.78
L5
[1] 13.41



2Y. Coronal Balance (C7PL to CSVL) - mean
All
[1] 16.01
L4
[1] 15.01
L5
[1] 17.36

L4 vs L5 p-value:[1] 0.492785


2Y. Coronal Balance (C7PL to CSVL) - sd
All
[1] 12.11
L4
[1] 10.86
L5
[1] 13.73



5Y. Coronal Balance (C7PL to CSVL) - mean
All
[1] 16.08
L4
[1] 15.85
L5
[1] 16.3

L4 vs L5 p-value:[1] 0.8971995


5Y. Coronal Balance (C7PL to CSVL) - sd
All
[1] 10.26
L4
```

```
[1] 9.61
L5
[1] 11.1
```

Coronal Balance (C7PL to CSVL) tests all
Preop vs 6w p-value
0.2320608

Preop vs 2y p-value
0.1068553

Preop vs 5y p-value
0.1220036

6w vs 2y p-value
0.01089174

2y vs 5y p-value
0.9768449

6w vs 5y p-value
0.0132386

Coronal Balance (C7PL to CSVL) tests L4
Preop vs 6w p-value
0.2967018

Preop vs 2y p-value
0.08641004

Preop vs 5y p-value
0.1990719

6w vs 2y p-value
0.01584488

2y vs 5y p-value
0.7768018

6w vs 5y p-value
0.04162302

Coronal Balance (C7PL to CSVL) tests L5
Preop vs 6w p-value
0.5132223

Preop vs 2y p-value
0.5535141

Preop vs 5y p-value
0.367828

```
6w vs 2y p-value
0.2421187


2y vs 5y p-value
0.7811212


6w vs 5y p-value
0.1455544


Sagittal Balance - mean
All
[1] 18.35
L4
[1] 11.57
L5
[1] 25.54


L4 vs L5 p-value:[1] 0.1971963



Sagittal Balance - sd
All
[1] 44.59
L4
[1] 46.82
L5
[1] 41.6




6W. Sagittal Balance - mean
All
[1] 20.3
L4
[1] 8.55
L5
[1] 32.42


L4 vs L5 p-value:[1] 0.009232721



6W. Sagittal Balance - sd
All
[1] 37.25
L4
[1] 29.89
L5
[1] 40.54




6M. Sagittal Balance - mean
All
[1] 10.72
```

```
L4
[1] 2.13
L5
[1] 22.95

L4 vs L5 p-value:[1] 0.02935491


6M. Sagittal Balance - sd
All
[1] 35.9
L4
[1] 30.94
L5
[1] 39.41



1Y. Sagittal Balance - mean
All
[1] 5.93
L4
[1] -4.46
L5
[1] 19.22

L4 vs L5 p-value:[1] 0.01694479


1Y. Sagittal Balance - sd
All
[1] 36.96
L4
[1] 33.32
L5
[1] 37.75



2Y. Sagittal Balance - mean
All
[1] 10.71
L4
[1] -2.08
L5
[1] 26.71

L4 vs L5 p-value:[1] 0.004620203


2Y. Sagittal Balance - sd
All
[1] 37.56
L4
```

```
[1] 33.58
L5
[1] 36.72




5Y. Sagittal Balance - mean
All
[1] 20.61
L4
[1] -0.12
L5
[1] 39.27


L4 vs L5 p-value:[1] 0.003030324



5Y. Sagittal Balance - sd
All
[1] 42.89
L4
[1] 34.61
L5
[1] 41.67




Sagittal Balance tests all
Preop vs 6w p-value
0.7843716

Preop vs 2y p-value
0.3066302

Preop vs 5y p-value
0.7981999

6w vs 2y p-value
0.1666698

2y vs 5y p-value
0.255222

6w vs 5y p-value
0.9704584

Sagittal Balance tests L4
Preop vs 6w p-value
0.7511953

Preop vs 2y p-value
0.17759

Preop vs 5y p-value
```

0.3092885

6w vs 2y p-value
0.1910473

2y vs 5y p-value
0.8485261

6w vs 5y p-value
0.3770144

Sagittal Balance tests L5
Preop vs 6w p-value
0.5023342

Preop vs 2y p-value
0.9115651

Preop vs 5y p-value
0.2516142

6w vs 2y p-value
0.5841649

2y vs 5y p-value
0.2999919

6w vs 5y p-value
0.563184

Sagittal T2-T5 - mean
All
[1] 9.02
L4
[1] 8.67
L5
[1] 9.4

L4 vs L5 p-value:[1] 0.7124926

Sagittal T2-T5 - sd
All
[1] 8.21
L4
[1] 9.15
L5
[1] 7.15

6W. Sagittal T2-T5 - mean
All
[1] 11.85

```
L4
[1] 11.61
L5
[1] 12.11

L4 vs L5 p-value:[1] 0.7595787


6W. Sagittal T2-T5 - sd
All
[1] 6.63
L4
[1] 7.65
L5
[1] 5.38



6M. Sagittal T2-T5 - mean
All
[1] 13.67
L4
[1] 13.62
L5
[1] 13.74

L4 vs L5 p-value:[1] 0.9677024


6M. Sagittal T2-T5 - sd
All
[1] 10.64
L4
[1] 8.9
L5
[1] 12.72



1Y. Sagittal T2-T5 - mean
All
[1] 12.17
L4
[1] 12.57
L5
[1] 11.7

L4 vs L5 p-value:[1] 0.7372767


1Y. Sagittal T2-T5 - sd
All
[1] 10.11
L4
```

```
[1] 12.34
L5
[1] 6.94




2Y. Sagittal T2-T5 - mean
All
[1] 13.32
L4
[1] 14.35
L5
[1] 12.02

L4 vs L5 p-value:[1] 0.3542676


2Y. Sagittal T2-T5 - sd
All
[1] 9.7
L4
[1] 10.51
L5
[1] 8.59




5Y. Sagittal T2-T5 - mean
All
[1] 12.02
L4
[1] 16
L5
[1] 8.24

L4 vs L5 p-value:[1] 0.0142744


5Y. Sagittal T2-T5 - sd
All
[1] 9.78
L4
[1] 11.63
L5
[1] 5.68




Sagittal T2-T5 tests all
Preop vs 6w p-value
0.02884958

Preop vs 2y p-value
0.008286509
```

```
Preop vs 5y p-value
0.1094637

6w vs 2y p-value
0.3290141

2y vs 5y p-value
0.5181866

6w vs 5y p-value
0.9238266

Sagittal T2-T5 tests L4
Preop vs 6w p-value
0.1450333

Preop vs 2y p-value
0.02009057

Preop vs 5y p-value
0.02353564

6w vs 2y p-value
0.2275702

2y vs 5y p-value
0.6127526

6w vs 5y p-value
0.1508886

Sagittal T2-T5 tests L5
Preop vs 6w p-value
0.09006447

Preop vs 2y p-value
0.2154923

Preop vs 5y p-value
0.5175328

6w vs 2y p-value
0.9644352

2y vs 5y p-value
0.0795419

6w vs 5y p-value
0.01987491

Sagittal T5-T12 - mean
All
[1] 34.25
```

```
L4
[1] 36.63
L5
[1] 31.58

L4 vs L5 p-value:[1] 0.3057825


Sagittal T5-T12 - sd
All
[1] 20.66
L4
[1] 22.11
L5
[1] 18.87


6W. Sagittal T5-T12 - mean
All
[1] 33.01
L4
[1] 33.34
L5
[1] 32.67

L4 vs L5 p-value:[1] 0.8405594


6W. Sagittal T5-T12 - sd
All
[1] 13.26
L4
[1] 13.38
L5
[1] 13.34


6M. Sagittal T5-T12 - mean
All
[1] 31.9
L4
[1] 32.85
L5
[1] 30.72

L4 vs L5 p-value:[1] 0.5513427


6M. Sagittal T5-T12 - sd
All
[1] 13.73
L4
```

```
[1] 12.06
L5
[1] 15.7




1Y. Sagittal T5-T12 - mean
All
[1] 34.5
L4
[1] 34.96
L5
[1] 33.96

L4 vs L5 p-value:[1] 0.7814574


1Y. Sagittal T5-T12 - sd
All
[1] 13.43
L4
[1] 12.26
L5
[1] 14.92




2Y. Sagittal T5-T12 - mean
All
[1] 34.1
L4
[1] 34.19
L5
[1] 33.99

L4 vs L5 p-value:[1] 0.9643944


2Y. Sagittal T5-T12 - sd
All
[1] 15.79
L4
[1] 14.57
L5
[1] 17.51




5Y. Sagittal T5-T12 - mean
All
[1] 36.61
L4
[1] 33.52
L5
```

```
[1] 39.4

L4 vs L5 p-value:[1] 0.2632879


5Y. Sagittal T5-T12 - sd
All
[1] 16.54
L4
[1] 15.17
L5
[1] 17.57



Sagittal T5-T12 tests all
Preop vs 6w p-value
0.677688

Preop vs 2y p-value
0.9634502

Preop vs 5y p-value
0.5135105

6w vs 2y p-value
0.6799781

2y vs 5y p-value
0.4533181

6w vs 5y p-value
0.2485449

Sagittal T5-T12 tests L4
Preop vs 6w p-value
0.4489911

Preop vs 2y p-value
0.5828591

Preop vs 5y p-value
0.5390937

6w vs 2y p-value
0.8072903

2y vs 5y p-value
0.8779753

6w vs 5y p-value
0.9664252

Sagittal T5-T12 tests L5
```

```
Preop vs 6w p-value
0.7872799

Preop vs 2y p-value
0.6129376

Preop vs 5y p-value
0.1283155

6w vs 2y p-value
0.7525136

2y vs 5y p-value
0.2994939

6w vs 5y p-value
0.1441143

Sagittal T2-T12 - mean
All
[1] 39.01
L4
[1] 40.28
L5
[1] 37.55

L4 vs L5 p-value:[1] 0.583603


Sagittal T2-T12 - sd
All
[1] 21.11
L4
[1] 23.34
L5
[1] 18.48



6W. Sagittal T2-T12 - mean
All
[1] 40.93
L4
[1] 40.42
L5
[1] 41.52

L4 vs L5 p-value:[1] 0.7526302


6W. Sagittal T2-T12 - sd
All
[1] 14.02
L4
```

```
[1] 13.85
L5
[1] 14.43




6M. Sagittal T2-T12 - mean
All
[1] 39.9
L4
[1] 41.25
L5
[1] 38.14

L4 vs L5 p-value:[1] 0.3854794




6M. Sagittal T2-T12 - sd
All
[1] 14.51
L4
[1] 14.85
L5
[1] 14.12




1Y. Sagittal T2-T12 - mean
All
[1] 40.81
L4
[1] 41.2
L5
[1] 40.34

L4 vs L5 p-value:[1] 0.8329593




1Y. Sagittal T2-T12 - sd
All
[1] 15.83
L4
[1] 16.58
L5
[1] 15.17




2Y. Sagittal T2-T12 - mean
All
[1] 42.25
L4
[1] 43.24
L5
```

```
[1] 40.99

L4 vs L5 p-value:[1] 0.5858931


2Y. Sagittal T2-T12 - sd
All
[1] 16.3
L4
[1] 18.09
L5
[1] 13.96



5Y. Sagittal T2-T12 - mean
All
[1] 42.85
L4
[1] 43.65
L5
[1] 42.09

L4 vs L5 p-value:[1] 0.7689431


5Y. Sagittal T2-T12 - sd
All
[1] 16.24
L4
[1] 16.69
L5
[1] 16.19



Sagittal T2-T12 tests all
Preop vs 6w p-value
0.5295222

Preop vs 2y p-value
0.3229296

Preop vs 5y p-value
0.2910105

6w vs 2y p-value
0.6253233

2y vs 5y p-value
0.8580372

6w vs 5y p-value
0.539445
```

Sagittal T2-T12 tests L4
Preop vs 6w p-value
0.9759774

Preop vs 2y p-value
0.5474371

Preop vs 5y p-value
0.5352977

6w vs 2y p-value
0.4677919

2y vs 5y p-value
0.9352241

6w vs 5y p-value
0.4756378

Sagittal T2-T12 tests L5
Preop vs 6w p-value
0.3405285

Preop vs 2y p-value
0.4141073

Preop vs 5y p-value
0.3537722

6w vs 2y p-value
0.8894136

2y vs 5y p-value
0.8100149

6w vs 5y p-value
0.8987984

Lordosis (top of L1-S1) - mean
All
[1] -45.49
L4
[1] -48.68
L5
[1] -41.92

L4 vs L5 p-value:[1] 0.12294

Lordosis (top of L1-S1) - sd
All
[1] 18.61
L4

```
[1] 19.09
L5
[1] 17.67




6W. Lordosis (top of L1-S1) - mean
All
[1] -47.97
L4
[1] -50.27
L5
[1] -45.47

L4 vs L5 p-value:[1] 0.1287003




6W. Lordosis (top of L1-S1) - sd
All
[1] 13.19
L4
[1] 14.11
L5
[1] 11.81




6M. Lordosis (top of L1-S1) - mean
All
[1] -48.86
L4
[1] -51.29
L5
[1] -45.87

L4 vs L5 p-value:[1] 0.08118862




6M. Lordosis (top of L1-S1) - sd
All
[1] 12.9
L4
[1] 13
L5
[1] 12.35




1Y. Lordosis (top of L1-S1) - mean
All
[1] -49.75
L4
[1] -51.18
L5
```

```
[1] -48.24

L4 vs L5 p-value:[1] 0.3558782


1Y. Lordosis (top of L1-S1) - sd
All
[1] 12.87
L4
[1] 13.39
L5
[1] 12.33



2Y. Lordosis (top of L1-S1) - mean
All
[1] -50.3
L4
[1] -52.37
L5
[1] -47.88

L4 vs L5 p-value:[1] 0.215944


2Y. Lordosis (top of L1-S1) - sd
All
[1] 14.51
L4
[1] 15.83
L5
[1] 12.64



5Y. Lordosis (top of L1-S1) - mean
All
[1] -46.52
L4
[1] -47.29
L5
[1] -45.81

L4 vs L5 p-value:[1] 0.7641856


5Y. Lordosis (top of L1-S1) - sd
All
[1] 15.27
L4
[1] 16.09
L5
[1] 14.85
```

Lordosis (top of L1-S1) tests all
Preop vs 6w p-value
0.3603094

Preop vs 2y p-value
0.09427604

Preop vs 5y p-value
0.7533304

6w vs 2y p-value
0.3383128

2y vs 5y p-value
0.2149292

6w vs 5y p-value
0.6153339

Lordosis (top of L1-S1) tests L4
Preop vs 6w p-value
0.6839665

Preop vs 2y p-value
0.3739449

Preop vs 5y p-value
0.7748126

6w vs 2y p-value
0.5615542

2y vs 5y p-value
0.2754748

6w vs 5y p-value
0.5011871

Lordosis (top of L1-S1) tests L5
Preop vs 6w p-value
0.3363784

Preop vs 2y p-value
0.1252121

Preop vs 5y p-value
0.3845384

6w vs 2y p-value
0.4426641

```
2y vs 5y p-value
0.6080935


6w vs 5y p-value
0.9291622


Pelvic Incidence - mean
All
[1] 50.32
L4
[1] 48.39
L5
[1] 52.47

L4 vs L5 p-value:[1] 0.1466306


Pelvic Incidence - sd
All
[1] 11.82
L4
[1] 11.4
L5
[1] 12.09




6W. Pelvic Incidence - mean
All
[1] 50.37
L4
[1] 48.32
L5
[1] 52.62

L4 vs L5 p-value:[1] 0.1449958


6W. Pelvic Incidence - sd
All
[1] 12.2
L4
[1] 12.03
L5
[1] 12.18




6M. Pelvic Incidence - mean
All
[1] 49.4
L4
[1] 47.72
L5
```

```
[1] 51.53

L4 vs L5 p-value:[1] 0.1836631


6M. Pelvic Incidence - sd
All
[1] 11.73
L4
[1] 11.81
L5
[1] 11.47



1Y. Pelvic Incidence - mean
All
[1] 49.78
L4
[1] 47.08
L5
[1] 52.72

L4 vs L5 p-value:[1] 0.03879011


1Y. Pelvic Incidence - sd
All
[1] 11.18
L4
[1] 10.52
L5
[1] 11.3



2Y. Pelvic Incidence - mean
All
[1] 49.97
L4
[1] 46.98
L5
[1] 53.37

L4 vs L5 p-value:[1] 0.03576933


2Y. Pelvic Incidence - sd
All
[1] 12.13
L4
[1] 12.4
L5
[1] 11.05
```

```
5Y. Pelvic Incidence - mean
All
[1] 50.48
L4
[1] 46.03
L5
[1] 54.51

L4 vs L5 p-value:[1] 0.03148711


5Y. Pelvic Incidence - sd
All
[1] 12.59
L4
[1] 11.93
L5
[1] 12.05



Pelvic Incidence tests all
Preop vs 6w p-value
0.9789628

Preop vs 2y p-value
0.8660171

Preop vs 5y p-value
0.9463674

6w vs 2y p-value
0.8495407

2y vs 5y p-value
0.8383395

6w vs 5y p-value
0.9644903

Pelvic Incidence tests L4
Preop vs 6w p-value
0.9770749

Preop vs 2y p-value
0.6197602

Preop vs 5y p-value
0.4794754

6w vs 2y p-value
```

0.6511106

2y vs 5y p-value
0.7879599

6w vs 5y p-value
0.5052706

Pelvic Incidence tests L5
Preop vs 6w p-value
0.9608386

Preop vs 2y p-value
0.758456

Preop vs 5y p-value
0.545824

6w vs 2y p-value
0.7989561

2y vs 5y p-value
0.7347283

6w vs 5y p-value
0.5781582

Pelvic Tilt - mean
All
[1] 19.12
L4
[1] 16.38
L5
[1] 22.17

L4 vs L5 p-value:[1] 0.004387954

Pelvic Tilt - sd
All
[1] 8.72
L4
[1] 7.93
L5
[1] 8.66

6W. Pelvic Tilt - mean
All
[1] 17.48
L4
[1] 14.05
L5

```
[1] 21.23

L4 vs L5 p-value:[1] 0.0009366392


6W. Pelvic Tilt - sd
All
[1] 9.24
L4
[1] 8.39
L5
[1] 8.77



6M. Pelvic Tilt - mean
All
[1] 17.1
L4
[1] 13.66
L5
[1] 21.47

L4 vs L5 p-value:[1] 6.52503e-05


6M. Pelvic Tilt - sd
All
[1] 8.39
L4
[1] 7.52
L5
[1] 7.43



1Y. Pelvic Tilt - mean
All
[1] 17.87
L4
[1] 14.69
L5
[1] 21.35

L4 vs L5 p-value:[1] 0.001135504


1Y. Pelvic Tilt - sd
All
[1] 8.63
L4
[1] 8.24
L5
[1] 7.77
```

```
2Y. Pelvic Tilt - mean
All
[1] 17.5
L4
[1] 13.55
L5
[1] 21.99

L4 vs L5 p-value:[1] 4.721634e-05


2Y. Pelvic Tilt - sd
All
[1] 8.61
L4
[1] 7.55
L5
[1] 7.56



5Y. Pelvic Tilt - mean
All
[1] 20.34
L4
[1] 15.62
L5
[1] 24.62

L4 vs L5 p-value:[1] 0.001780939


5Y. Pelvic Tilt - sd
All
[1] 9.37
L4
[1] 9.22
L5
[1] 7.37



Pelvic Tilt tests all
Preop vs 6w p-value
0.2830483

Preop vs 2y p-value
0.282847

Preop vs 5y p-value
0.4985777
```

6w vs 2y p-value
0.9929023

2y vs 5y p-value
0.1263722

6w vs 5y p-value
0.1267247

Pelvic Tilt tests L4
Preop vs 6w p-value
0.2242802

Preop vs 2y p-value
0.1277034

Preop vs 5y p-value
0.7601822

6w vs 2y p-value
0.7926739

2y vs 5y p-value
0.4113035

6w vs 5y p-value
0.540756

Pelvic Tilt tests L5
Preop vs 6w p-value
0.6581709

Preop vs 2y p-value
0.9301988

Preop vs 5y p-value
0.2700189

6w vs 2y p-value
0.7128919

2y vs 5y p-value
0.2258246

6w vs 5y p-value
0.1329411

Sacral Slope - mean
All
[1] 31.52
L4
[1] 31.88
L5

[1] 31.1

L4 vs L5 p-value:[1] 0.7430472

Sacral Slope - sd
All
[1] 10.01
L4
[1] 10.29
L5
[1] 9.81

6W. Sacral Slope - mean
All
[1] 32.86
L4
[1] 34.24
L5
[1] 31.36

L4 vs L5 p-value:[1] 0.2171011

6W. Sacral Slope - sd
All
[1] 9.66
L4
[1] 10.17
L5
[1] 8.98

6M. Sacral Slope - mean
All
[1] 32.15
L4
[1] 33.93
L5
[1] 29.9

L4 vs L5 p-value:[1] 0.07628179

6M. Sacral Slope - sd
All
[1] 9.23
L4
[1] 8.79
L5
[1] 9.42

```
1Y. Sacral Slope - mean
All
[1] 31.94
L4
[1] 32.45
L5
[1] 31.37

L4 vs L5 p-value:[1] 0.6223047


1Y. Sacral Slope - sd
All
[1] 8.83
L4
[1] 8.87
L5
[1] 8.89



2Y. Sacral Slope - mean
All
[1] 32.46
L4
[1] 33.43
L5
[1] 31.34

L4 vs L5 p-value:[1] 0.4013983


2Y. Sacral Slope - sd
All
[1] 9.79
L4
[1] 10.57
L5
[1] 8.86



5Y. Sacral Slope - mean
All
[1] 30.14
L4
[1] 30.42
L5
[1] 29.9

L4 vs L5 p-value:[1] 0.8776445
```

5Y. Sacral Slope - sd
All
[1] 10.37
L4
[1] 11.42
L5
[1] 9.59

Sacral Slope tests all
Preop vs 6w p-value
0.4200064

Preop vs 2y p-value
0.5861594

Preop vs 5y p-value
0.4989612

6w vs 2y p-value
0.8118392

2y vs 5y p-value
0.2641324

6w vs 5y p-value
0.1799347

Sacral Slope tests L4
Preop vs 6w p-value
0.3259964

Preop vs 2y p-value
0.5352005

Preop vs 5y p-value
0.6398376

6w vs 2y p-value
0.7489243

2y vs 5y p-value
0.3525422

6w vs 5y p-value
0.229412

Sacral Slope tests L5
Preop vs 6w p-value
0.9088881

```
Preop vs 2y p-value
0.9169275

Preop vs 5y p-value
0.6588064

6w vs 2y p-value
0.9938421

2y vs 5y p-value
0.589119

6w vs 5y p-value
0.577495

RLL - mean
All
[1] -14.71
L4
[1] -10.32
L5
[1] -19.62

L4 vs L5 p-value:[1] 0.01611489


RLL - sd
All
[1] 16.56
L4
[1] 16.29
L5
[1] 15.66



6W. RLL - mean
All
[1] -12.26
L4
[1] -8.68
L5
[1] -16.16

L4 vs L5 p-value:[1] 0.006612957


6W. RLL - sd
All
[1] 11.54
L4
[1] 10.4
L5
[1] 11.61
```

```
6M. RLL - mean
All
[1] -10.57
L4
[1] -7.29
L5
[1] -14.72

L4 vs L5 p-value:[1] 0.005800216


6M. RLL - sd
All
[1] 11.04
L4
[1] 9.95
L5
[1] 11.11



1Y. RLL - mean
All
[1] -10.06
L4
[1] -6.87
L5
[1] -13.45

L4 vs L5 p-value:[1] 0.02347505


1Y. RLL - sd
All
[1] 11.91
L4
[1] 11.66
L5
[1] 11.39



2Y. RLL - mean
All
[1] -9.68
L4
[1] -5.69
L5
[1] -14.21

L4 vs L5 p-value:[1] 0.006852176
```

```
2Y. RLL - sd
All
[1] 12.67
L4
[1] 12.45
L5
[1] 11.51



5Y. RLL - mean
All
[1] -13.79
L4
[1] -10.25
L5
[1] -16.99

L4 vs L5 p-value:[1] 0.1309069



5Y. RLL - sd
All
[1] 14.02
L4
[1] 13.89
L5
[1] 13.66



RLL tests all
Preop vs 6w p-value
0.3078259

Preop vs 2y p-value
0.04854301

Preop vs 5y p-value
0.7545339

6w vs 2y p-value
0.226598

2y vs 5y p-value
0.137483

6w vs 5y p-value
0.5613138

RLL tests L4
Preop vs 6w p-value
```

0.6061475

Preop vs 2y p-value
0.1796392

Preop vs 5y p-value
0.9854338

6w vs 2y p-value
0.284305

2y vs 5y p-value
0.2450917

6w vs 5y p-value
0.670074

RLL tests L5
Preop vs 6w p-value
0.3074787

Preop vs 2y p-value
0.1206221

Preop vs 5y p-value
0.5155244

6w vs 2y p-value
0.5110539

2y vs 5y p-value
0.453978

6w vs 5y p-value
0.8190048

Global Tilt - mean
All
[1] 20.38
L4
[1] 16.87
L5
[1] 24.42

L4 vs L5 p-value:[1] 0.0186626

Global Tilt - sd
All
[1] 13.53
L4
[1] 12.58
L5
[1] 13.64

```
6W. Global Tilt - mean
All
[1] 18.33
L4
[1] 13.68
L5
[1] 23.57

L4 vs L5 p-value:[1] 0.000618903


6W. Global Tilt - sd
All
[1] 12.09
L4
[1] 9.75
L5
[1] 12.45



6M. Global Tilt - mean
All
[1] 16.49
L4
[1] 12.44
L5
[1] 22.48

L4 vs L5 p-value:[1] 0.0004362483


6M. Global Tilt - sd
All
[1] 10.84
L4
[1] 8.71
L5
[1] 11.06



1Y. Global Tilt - mean
All
[1] 17.05
L4
[1] 12.22
L5
[1] 22.41

L4 vs L5 p-value:[1] 8.368771e-05
```

```
1Y. Global Tilt - sd
All
[1] 10.24
L4
[1] 8.38
L5
[1] 9.53




2Y. Global Tilt - mean
All
[1] 17.02
L4
[1] 11.45
L5
[1] 23.37

L4 vs L5 p-value:[1] 2.373262e-05




2Y. Global Tilt - sd
All
[1] 11.52
L4
[1] 9.52
L5
[1] 10.37




5Y. Global Tilt - mean
All
[1] 21.74
L4
[1] 14.25
L5
[1] 28.52

L4 vs L5 p-value:[1] 0.0004128389




5Y. Global Tilt - sd
All
[1] 13.48
L4
[1] 12.14
L5
[1] 10.96
```

Global Tilt tests all
Preop vs 6w p-value
0.3486172

Preop vs 2y p-value
0.1269529

Preop vs 5y p-value
0.6111429

6w vs 2y p-value
0.5292989

2y vs 5y p-value
0.07319704

6w vs 5y p-value
0.1919414

Global Tilt tests L4
Preop vs 6w p-value
0.2248276

Preop vs 2y p-value
0.04444055

Preop vs 5y p-value
0.4523921

6w vs 2y p-value
0.3453974

2y vs 5y p-value
0.3971063

6w vs 5y p-value
0.8604935

Global Tilt tests L5
Preop vs 6w p-value
0.7949232

Preop vs 2y p-value
0.7355823

Preop vs 5y p-value
0.2295117

6w vs 2y p-value
0.9462679

2y vs 5y p-value
0.1036081

```
6w vs 5y p-value
0.1349073


T1 Sagittal Tilt - mean
All
[1] -3.88
L4
[1] -4.54
L5
[1] -3.12

L4 vs L5 p-value:[1] 0.2499525


T1 Sagittal Tilt - sd
All
[1] 4.69
L4
[1] 3.71
L5
[1] 5.58



6W. T1 Sagittal Tilt - mean
All
[1] -3
L4
[1] -4.16
L5
[1] -1.84

L4 vs L5 p-value:[1] 0.01390567


6W. T1 Sagittal Tilt - sd
All
[1] 3.71
L4
[1] 3.24
L5
[1] 3.84



6M. T1 Sagittal Tilt - mean
All
[1] -4.5
L4
[1] -5
L5
[1] -3.75

L4 vs L5 p-value:[1] 0.1321765
```

```
6M. T1 Sagittal Tilt - sd
All
[1] 3.15
L4
[1] 3.13
L5
[1] 3.08




1Y. T1 Sagittal Tilt - mean
All
[1] -4.55
L4
[1] -5.08
L5
[1] -3.84

L4 vs L5 p-value:[1] 0.2901315


1Y. T1 Sagittal Tilt - sd
All
[1] 4.4
L4
[1] 4.7
L5
[1] 3.95




2Y. T1 Sagittal Tilt - mean
All
[1] -4.38
L4
[1] -5.2
L5
[1] -3.46

L4 vs L5 p-value:[1] 0.03993243


2Y. T1 Sagittal Tilt - sd
All
[1] 3.26
L4
[1] 3.17
L5
[1] 3.16
```

```
5Y. T1 Sagittal Tilt - mean
All
[1] -3.8
L4
[1] -5.13
L5
[1] -2.59


L4 vs L5 p-value:[1] 0.01650113


5Y. T1 Sagittal Tilt - sd
All
[1] 3.43
L4
[1] 2.9
L5
[1] 3.49



T1 Sagittal Tilt tests all
Preop vs 6w p-value
0.2525951

Preop vs 2y p-value
0.4976609

Preop vs 5y p-value
0.922657

6w vs 2y p-value
0.03347078

2y vs 5y p-value
0.4053386

6w vs 5y p-value
0.2717076

T1 Sagittal Tilt tests L4
Preop vs 6w p-value
0.6654218

Preop vs 2y p-value
0.4490107

Preop vs 5y p-value
0.5284113

6w vs 2y p-value
0.2116553

2y vs 5y p-value
```

0.9395894

6w vs 5y p-value
0.2823314

T1 Sagittal Tilt tests L5
Preop vs 6w p-value
0.3087823

Preop vs 2y p-value
0.7756784

Preop vs 5y p-value
0.6834588

6w vs 2y p-value
0.08231197

2y vs 5y p-value
0.3737486

6w vs 5y p-value
0.4673235

Thoracolumbar L2-T10 - mean
All
[1] 20.06
L4
[1] 26.02
L5
[1] 12.97

L4 vs L5 p-value:[1] 0.008790538

Thoracolumbar L2-T10 - sd
All
[1] 20.84
L4
[1] 18.97
L5
[1] 21.02

6W. Thoracolumbar L2-T10 - mean
All
[1] 2.29
L4
[1] 1.5
L5
[1] 3.17

L4 vs L5 p-value:[1] 0.5918865

```
6W. Thoracolumbar L2-T10 - sd
All
[1] 12.56
L4
[1] 14.33
L5
[1] 10.45




6M. Thoracolumbar L2-T10 - mean
All
[1] 4.07
L4
[1] 3.21
L5
[1] 5.2

L4 vs L5 p-value:[1] 0.4804379


6M. Thoracolumbar L2-T10 - sd
All
[1] 10.26
L4
[1] 9.5
L5
[1] 11.28




1Y. Thoracolumbar L2-T10 - mean
All
[1] 5.29
L4
[1] 3.64
L5
[1] 7.31

L4 vs L5 p-value:[1] 0.2702525


1Y. Thoracolumbar L2-T10 - sd
All
[1] 12.21
L4
[1] 9.63
L5
[1] 14.72
```

```
2Y. Thoracolumbar L2-T10 - mean
All
[1] 5.34
L4
[1] 3.18
L5
[1] 8.11

L4 vs L5 p-value:[1] 0.1025551


2Y. Thoracolumbar L2-T10 - sd
All
[1] 10.99
L4
[1] 9.74
L5
[1] 12.05



5Y. Thoracolumbar L2-T10 - mean
All
[1] 7.23
L4
[1] 4.55
L5
[1] 9.65

L4 vs L5 p-value:[1] 0.1676947


5Y. Thoracolumbar L2-T10 - sd
All
[1] 11.7
L4
[1] 10.44
L5
[1] 12.48



Thoracolumbar L2-T10 tests all
Preop vs 6w p-value
1.900286e-08

Preop vs 2y p-value
1.451808e-06

Preop vs 5y p-value
7.020209e-05

6w vs 2y p-value
0.1555237
```

```
2y vs 5y p-value
0.425994


6w vs 5y p-value
0.04444656


Thoracolumbar L2-T10 tests L4
Preop vs 6w p-value
3.368438e-08


Preop vs 2y p-value
2.322071e-08


Preop vs 5y p-value
1.022196e-06


6w vs 2y p-value
0.578192


2y vs 5y p-value
0.6453614


6w vs 5y p-value
0.3790552


Thoracolumbar L2-T10 tests L5
Preop vs 6w p-value
0.02280798


Preop vs 2y p-value
0.2775179


Preop vs 5y p-value
0.4737271


6w vs 2y p-value
0.1118447


2y vs 5y p-value
0.6747944


6w vs 5y p-value
0.057313


RSA - mean
All
[1] 11.16
L4
[1] 8.64
L5
[1] 14.07


L4 vs L5 p-value:[1] 0.05262429
```

```
RSA - sd
All
[1] 11.84
L4
[1] 11.86
L5
[1] 11.3
```

```
6W. RSA - mean
All
[1] 9.14
L4
[1] 5.48
L5
[1] 13.26
```

L4 vs L5 p-value:[1] 0.001241075

```
6W. RSA - sd
All
[1] 10.12
L4
[1] 8.89
L5
[1] 9.94
```

```
6M. RSA - mean
All
[1] 7.94
L4
[1] 4.55
L5
[1] 12.96
```

L4 vs L5 p-value:[1] 9.206064e-05

```
6M. RSA - sd
All
[1] 8.46
L4
[1] 7.06
L5
[1] 7.94
```

```
1Y. RSA - mean
All
[1] 8.23
L4
[1] 4.7
L5
[1] 12.15

L4 vs L5 p-value:[1] 0.0003440551


1Y. RSA - sd
All
[1] 8.2
L4
[1] 7.37
L5
[1] 7.34



2Y. RSA - mean
All
[1] 8.08
L4
[1] 3.74
L5
[1] 13.04

L4 vs L5 p-value:[1] 9.43661e-05


2Y. RSA - sd
All
[1] 9.77
L4
[1] 9.18
L5
[1] 8



5Y. RSA - mean
All
[1] 12.51
L4
[1] 7.15
L5
[1] 17.35

L4 vs L5 p-value:[1] 0.004915618


5Y. RSA - sd
```

```
All
[1] 11.59
L4
[1] 12.11
L5
[1] 8.83
```

RSA tests all
Preop vs 6w p-value
0.2814084

Preop vs 2y p-value
0.1049201

Preop vs 5y p-value
0.5613234

6w vs 2y p-value
0.5459676

2y vs 5y p-value
0.05017272

6w vs 5y p-value
0.1314973

RSA tests L4
Preop vs 6w p-value
0.1981718

Preop vs 2y p-value
0.05559563

Preop vs 5y p-value
0.662483

6w vs 2y p-value
0.4299138

2y vs 5y p-value
0.2970689

6w vs 5y p-value
0.6004202

RSA tests L5
Preop vs 6w p-value
0.7618163

Preop vs 2y p-value
0.6807908

```
Preop vs 5y p-value
0.2379728


6w vs 2y p-value
0.9238653


2y vs 5y p-value
0.08563468


6w vs 5y p-value
0.1235304


RPV - mean
All
[1] -7.21
L4
[1] -5.67
L5
[1] -8.98

L4 vs L5 p-value:[1] 0.03832301



RPV - sd
All
[1] 6.81
L4
[1] 7.1
L5
[1] 6.1




6W. RPV - mean
All
[1] -5.86
L4
[1] -3.27
L5
[1] -8.68

L4 vs L5 p-value:[1] 0.001460083



6W. RPV - sd
All
[1] 7.26
L4
[1] 6.98
L5
[1] 6.57
```

```
6M. RPV - mean
All
[1] -6
L4
[1] -3.22
L5
[1] -9.5

L4 vs L5 p-value:[1] 5.035552e-05


6M. RPV - sd
All
[1] 6.58
L4
[1] 5.58
L5
[1] 6.11



1Y. RPV - mean
All
[1] -6.43
L4
[1] -4.33
L5
[1] -8.73

L4 vs L5 p-value:[1] 0.006147918


1Y. RPV - sd
All
[1] 6.72
L4
[1] 6.7
L5
[1] 6.02



2Y. RPV - mean
All
[1] -6.03
L4
[1] -3.29
L5
[1] -9.15

L4 vs L5 p-value:[1] 0.0005193136


2Y. RPV - sd
```

```
All
[1] 6.91
L4
[1] 6.52
L5
[1] 6.05



5Y. RPV - mean
All
[1] -8.64
L4
[1] -5.74
L5
[1] -11.27

L4 vs L5 p-value:[1] 0.02234396


5Y. RPV - sd
All
[1] 7.58
L4
[1] 8.32
L5
[1] 5.89



RPV tests all
Preop vs 6w p-value
0.2593883

Preop vs 2y p-value
0.3241636

Preop vs 5y p-value
0.3241956

6w vs 2y p-value
0.8927003

2y vs 5y p-value
0.08223626

6w vs 5y p-value
0.06436927

RPV tests L4
Preop vs 6w p-value
0.146813

Preop vs 2y p-value
```

0.14488

Preop vs 5y p-value
0.9739296

6w vs 2y p-value
0.9924283

2y vs 5y p-value
0.2769242

6w vs 5y p-value
0.2767317

RPV tests L5
Preop vs 6w p-value
0.8506946

Preop vs 2y p-value
0.9141574

Preop vs 5y p-value
0.1767435

6w vs 2y p-value
0.7739999

2y vs 5y p-value
0.2204258

6w vs 5y p-value
0.1398461

Quality of Life

ODI - Score (%) - mean
All
[1] 34.77
L4
[1] 28.54
L5
[1] 41.76

L4 vs L5 p-value:[1] 0.004142111

ODI - Score (%) - sd
All
[1] 19.6
L4
[1] 18.42
L5
[1] 18.74

```
6M. ODI - Score (%) - mean
All
[1] 28.3
L4
[1] 27.57
L5
[1] 29.21

L4 vs L5 p-value:[1] 0.6930723


6M. ODI - Score (%) - sd
All
[1] 16.14
L4
[1] 15.9
L5
[1] 16.67



1Y. ODI - Score (%) - mean
All
[1] 25.22
L4
[1] 19.89
L5
[1] 31.43

L4 vs L5 p-value:[1] 0.007905313


1Y. ODI - Score (%) - sd
All
[1] 17.55
L4
[1] 15.65
L5
[1] 17.85



2Y. ODI - Score (%) - mean
All
[1] 25.01
L4
[1] 21.76
L5
[1] 28.76

L4 vs L5 p-value:[1] 0.1525069
```

```
2Y. ODI - Score (%) - sd
All
[1] 20.26
L4
[1] 18.72
L5
[1] 21.58




5Y. ODI - Score (%) - mean
All
[1] 26.96
L4
[1] 24.13
L5
[1] 30.35

L4 vs L5 p-value:[1] 0.1974465


5Y. ODI - Score (%) - sd
All
[1] 18.15
L4
[1] 18.65
L5
[1] 17.28




ODI - Score (%) tests all
Preop vs 6m p-value
0.0389325

Preop vs 2y p-value
0.004251751

Preop vs 5y p-value
0.02166438

6m vs 2y p-value
0.2983748

2y vs 5y p-value
0.5671584

6w vs 5y p-value
0.6719586

ODI - Score (%) tests L4
Preop vs 6m p-value
```

0.8115359

Preop vs 2y p-value
0.1183787

Preop vs 5y p-value
0.332294

6m vs 2y p-value
0.1565704

2y vs 5y p-value
0.6026503

6m vs 5y p-value
0.4260675

ODI - Score (%) tests L5
Preop vs 6m p-value
0.007577465

Preop vs 2y p-value
0.01121871

Preop vs 5y p-value
0.01853997

6m vs 2y p-value
0.9260893

2y vs 5y p-value
0.7546251

6w vs 5y p-value
0.807701

SRS22 - Function / Activity - mean
All
[1] 3.07
L4
[1] 3.3
L5
[1] 2.83

L4 vs L5 p-value:[1] 0.01960266

SRS22 - Function / Activity - sd
All
[1] 0.86
L4
[1] 0.91
L5
[1] 0.74

```
6M. SRS22 - Function / Activity - mean
All
[1] 3.12
L4
[1] 3.19
L5
[1] 3.04

L4 vs L5 p-value:[1] 0.5185818


6M. SRS22 - Function / Activity - sd
All
[1] 0.88
L4
[1] 0.88
L5
[1] 0.89



1Y. SRS22 - Function / Activity - mean
All
[1] 3.39
L4
[1] 3.66
L5
[1] 3.07

L4 vs L5 p-value:[1] 0.01532368


1Y. SRS22 - Function / Activity - sd
All
[1] 0.99
L4
[1] 0.95
L5
[1] 0.96



2Y. SRS22 - Function / Activity - mean
All
[1] 3.56
L4
[1] 3.73
L5
[1] 3.34

L4 vs L5 p-value:[1] 0.06922503
```

2Y. SRS22 - Function / Activity - sd
All
[1] 0.91
L4
[1] 0.93
L5
[1] 0.85

5Y. SRS22 - Function / Activity - mean
All
[1] 3.47
L4
[1] 3.58
L5
[1] 3.34

L4 vs L5 p-value:[1] 0.2733902

5Y. SRS22 - Function / Activity - sd
All
[1] 0.86
L4
[1] 0.96
L5
[1] 0.72

SRS22 - Function / Activity tests all
Preop vs 6m p-value
0.7522544

Preop vs 2y p-value
0.001648413

Preop vs 5y p-value
0.01125876

6m vs 2y p-value
0.006342474

2y vs 5y p-value
0.5687642

6w vs 5y p-value
0.03197103

SRS22 - Function / Activity tests L4
Preop vs 6m p-value

0.6043248

Preop vs 2y p-value
0.04262216

Preop vs 5y p-value
0.2173989

6m vs 2y p-value
0.01173375

2y vs 5y p-value
0.5035479

6m vs 5y p-value
0.08841708

SRS22 - Function / Activity tests L5
Preop vs 6m p-value
0.3212941

Preop vs 2y p-value
0.01256246

Preop vs 5y p-value
0.009073027

6m vs 2y p-value
0.1970799

2y vs 5y p-value
0.9907041

6w vs 5y p-value
0.1836069

SRS22 - Pain - mean
All
[1] 2.6
L4
[1] 2.87
L5
[1] 2.29

L4 vs L5 p-value:[1] 0.01708754

SRS22 - Pain - sd
All
[1] 1.03
L4
[1] 1.05
L5
[1] 0.92

```
6M. SRS22 - Pain - mean
All
[1] 3.34
L4
[1] 3.36
L5
[1] 3.3

L4 vs L5 p-value:[1] 0.7957718


6M. SRS22 - Pain - sd
All
[1] 0.89
L4
[1] 0.87
L5
[1] 0.93



1Y. SRS22 - Pain - mean
All
[1] 3.58
L4
[1] 3.79
L5
[1] 3.34

L4 vs L5 p-value:[1] 0.07815066


1Y. SRS22 - Pain - sd
All
[1] 1.02
L4
[1] 0.97
L5
[1] 1.04



2Y. SRS22 - Pain - mean
All
[1] 3.51
L4
[1] 3.72
L5
[1] 3.25

L4 vs L5 p-value:[1] 0.06443269
```

```
2Y. SRS22 - Pain - sd
All
[1] 1.06
L4
[1] 1.03
L5
[1] 1.05




5Y. SRS22 - Pain - mean
All
[1] 3.22
L4
[1] 3.4
L5
[1] 3.01

L4 vs L5 p-value:[1] 0.1761369


5Y. SRS22 - Pain - sd
All
[1] 1.08
L4
[1] 1.09
L5
[1] 1.05




SRS22 - Pain tests all
Preop vs 6m p-value
1.995884e-05

Preop vs 2y p-value
8.324276e-07

Preop vs 5y p-value
0.001170412

6m vs 2y p-value
0.3093868

2y vs 5y p-value
0.134807

6w vs 5y p-value
0.533026

SRS22 - Pain tests L4
Preop vs 6m p-value
```

```
0.03285166

Preop vs 2y p-value
0.0006717393

Preop vs 5y p-value
0.0455369

6m vs 2y p-value
0.1099182

2y vs 5y p-value
0.2197319

6m vs 5y p-value
0.8703507

SRS22 - Pain tests L5
Preop vs 6m p-value
0.0001016047

Preop vs 2y p-value
0.0002706931

Preop vs 5y p-value
0.007274066

6m vs 2y p-value
0.8399535

2y vs 5y p-value
0.4016977

6w vs 5y p-value
0.2955313

SRS22 - Self image / Appearance - mean
All
[1] 2.44
L4
[1] 2.59
L5
[1] 2.28

L4 vs L5 p-value:[1] 0.1040935


SRS22 - Self image / Appearance - sd
All
[1] 0.8
L4
[1] 0.85
L5
[1] 0.71
```

```
6M. SRS22 - Self image / Appearance - mean
All
[1] 3.6
L4
[1] 3.68
L5
[1] 3.5


L4 vs L5 p-value:[1] 0.3986507


6M. SRS22 - Self image / Appearance - sd
All
[1] 0.81
L4
[1] 0.71
L5
[1] 0.93




1Y. SRS22 - Self image / Appearance - mean
All
[1] 3.63
L4
[1] 3.8
L5
[1] 3.42

L4 vs L5 p-value:[1] 0.08324352


1Y. SRS22 - Self image / Appearance - sd
All
[1] 0.86
L4
[1] 0.75
L5
[1] 0.96




2Y. SRS22 - Self image / Appearance - mean
All
[1] 3.63
L4
[1] 3.76
L5
[1] 3.48

L4 vs L5 p-value:[1] 0.2204743
```

```
2Y. SRS22 - Self image / Appearance - sd
All
[1] 0.93
L4
[1] 0.9
L5
[1] 0.95




5Y. SRS22 - Self image / Appearance - mean
All
[1] 3.47
L4
[1] 3.64
L5
[1] 3.27

L4 vs L5 p-value:[1] 0.1402414


5Y. SRS22 - Self image / Appearance - sd
All
[1] 0.93
L4
[1] 0.88
L5
[1] 0.97




SRS22 - Self image / Appearance tests all
Preop vs 6m p-value
1.784237e-13

Preop vs 2y p-value
3.161172e-13

Preop vs 5y p-value
1.452039e-09

6m vs 2y p-value
0.8413113

2y vs 5y p-value
0.3292287

6w vs 5y p-value
0.4119611

SRS22 - Self image / Appearance tests L4
Preop vs 6m p-value
```

1.049942e-07

Preop vs 2y p-value
1.675422e-07

Preop vs 5y p-value
5.619203e-06

6m vs 2y p-value
0.6899992

2y vs 5y p-value
0.5900366

6m vs 5y p-value
0.8360754

SRS22 - Self image / Appearance tests L5
Preop vs 6m p-value
1.156135e-06

Preop vs 2y p-value
5.536168e-07

Preop vs 5y p-value
5.658542e-05

6m vs 2y p-value
0.9396477

2y vs 5y p-value
0.4207469

6w vs 5y p-value
0.3905371

SRS22 - Mental health - mean
All
[1] 3.2
L4
[1] 3.21
L5
[1] 3.2

L4 vs L5 p-value:[1] 0.9633215

SRS22 - Mental health - sd
All
[1] 0.85
L4
[1] 0.83
L5
[1] 0.87

```
6M. SRS22 - Mental health - mean
All
[1] 3.5
L4
[1] 3.5
L5
[1] 3.5

L4 vs L5 p-value:[1] 0.9764658


6M. SRS22 - Mental health - sd
All
[1] 0.84
L4
[1] 0.8
L5
[1] 0.91



1Y. SRS22 - Mental health - mean
All
[1] 3.62
L4
[1] 3.71
L5
[1] 3.51

L4 vs L5 p-value:[1] 0.368034


1Y. SRS22 - Mental health - sd
All
[1] 0.88
L4
[1] 0.79
L5
[1] 0.97



2Y. SRS22 - Mental health - mean
All
[1] 3.57
L4
[1] 3.58
L5
[1] 3.56

L4 vs L5 p-value:[1] 0.9290437
```

2Y. SRS22 - Mental health - sd
All
[1] 0.88
L4
[1] 0.88
L5
[1] 0.9

5Y. SRS22 - Mental health - mean
All
[1] 3.57
L4
[1] 3.66
L5
[1] 3.45

L4 vs L5 p-value:[1] 0.3630999

5Y. SRS22 - Mental health - sd
All
[1] 0.89
L4
[1] 0.94
L5
[1] 0.82

SRS22 - Mental health tests all
Preop vs 6m p-value
0.047306

Preop vs 2y p-value
0.01395861

Preop vs 5y p-value
0.02127051

6m vs 2y p-value
0.6415981

2y vs 5y p-value
0.9759023

6w vs 5y p-value
0.6796175

SRS22 - Mental health tests L4
Preop vs 6m p-value

0.1391993

Preop vs 2y p-value
0.06535945

Preop vs 5y p-value
0.04118012

6m vs 2y p-value
0.6774591

2y vs 5y p-value
0.7002628

6m vs 5y p-value
0.4428845

SRS22 - Mental health tests L5
Preop vs 6m p-value
0.196677

Preop vs 2y p-value
0.1109146

Preop vs 5y p-value
0.2561556

6m vs 2y p-value
0.8156427

2y vs 5y p-value
0.6358732

6w vs 5y p-value
0.8271794

SRS22 - SRS Subtotal score - mean
All
[1] 2.84
L4
[1] 3
L5
[1] 2.66

L4 vs L5 p-value:[1] 0.06303606

SRS22 - SRS Subtotal score - sd
All
[1] 0.75
L4
[1] 0.79
L5
[1] 0.68

```
6M. SRS22 - SRS Subtotal score - mean
All
[1] 3.39
L4
[1] 3.43
L5
[1] 3.33

L4 vs L5 p-value:[1] 0.5873157


6M. SRS22 - SRS Subtotal score - sd
All
[1] 0.69
L4
[1] 0.67
L5
[1] 0.74



1Y. SRS22 - SRS Subtotal score - mean
All
[1] 3.55
L4
[1] 3.74
L5
[1] 3.34

L4 vs L5 p-value:[1] 0.04295458


1Y. SRS22 - SRS Subtotal score - sd
All
[1] 0.8
L4
[1] 0.74
L5
[1] 0.82



2Y. SRS22 - SRS Subtotal score - mean
All
[1] 3.57
L4
[1] 3.7
L5
[1] 3.41

L4 vs L5 p-value:[1] 0.1444929
```

```
2Y. SRS22 - SRS Subtotal score - sd
All
[1] 0.82
L4
[1] 0.82
L5
[1] 0.81




5Y. SRS22 - SRS Subtotal score - mean
All
[1] 3.43
L4
[1] 3.57
L5
[1] 3.27

L4 vs L5 p-value:[1] 0.1675124


5Y. SRS22 - SRS Subtotal score - sd
All
[1] 0.84
L4
[1] 0.87
L5
[1] 0.79




SRS22 - SRS Subtotal score tests all
Preop vs 6m p-value
2.579536e-05

Preop vs 2y p-value
2.245748e-07

Preop vs 5y p-value
6.231287e-05

6m vs 2y p-value
0.1752104

2y vs 5y p-value
0.3473261

6w vs 5y p-value
0.771173

SRS22 - SRS Subtotal score tests L4
Preop vs 6m p-value
```

0.01338254

Preop vs 2y p-value
0.0003042771

Preop vs 5y p-value
0.006104697

6m vs 2y p-value
0.1268842

2y vs 5y p-value
0.5295283

6m vs 5y p-value
0.4702632

SRS22 - SRS Subtotal score tests L5
Preop vs 6m p-value
0.0006468586

Preop vs 2y p-value
0.00019954

Preop vs 5y p-value
0.002792638

6m vs 2y p-value
0.7107263

2y vs 5y p-value
0.5047106

6w vs 5y p-value
0.7540886

SF36 - PCS - mean
All
[1] 37.5
L4
[1] 40.21
L5
[1] 34.47

L4 vs L5 p-value:[1] 0.01141825

SF36 - PCS - sd
All
[1] 9.62
L4
[1] 9.4
L5
[1] 9.05

```
6M. SF36 - PCS - mean
All
[1] 40.55
L4
[1] 42.53
L5
[1] 38.22

L4 vs L5 p-value:[1] 0.03259548


6M. SF36 - PCS - sd
All
[1] 8.04
L4
[1] 7.82
L5
[1] 7.78



1Y. SF36 - PCS - mean
All
[1] 42.58
L4
[1] 45.76
L5
[1] 38.87

L4 vs L5 p-value:[1] 0.007231674


1Y. SF36 - PCS - sd
All
[1] 10.46
L4
[1] 9.84
L5
[1] 10.08



2Y. SF36 - PCS - mean
All
[1] 43.28
L4
[1] 45.26
L5
[1] 41

L4 vs L5 p-value:[1] 0.06529388
```

```
2Y. SF36 - PCS - sd
All
[1] 9.81
L4
[1] 10.23
L5
[1] 8.93




5Y. SF36 - PCS - mean
All
[1] 42.07
L4
[1] 43.72
L5
[1] 40.17

L4 vs L5 p-value:[1] 0.1501658


5Y. SF36 - PCS - sd
All
[1] 9.22
L4
[1] 9.41
L5
[1] 8.79




SF36 - PCS tests all
Preop vs 6m p-value
0.04913516

Preop vs 2y p-value
0.000565991

Preop vs 5y p-value
0.007682551

6m vs 2y p-value
0.07900615

2y vs 5y p-value
0.478217

6w vs 5y p-value
0.3406881

SF36 - PCS tests L4
Preop vs 6m p-value
```

0.2607363

Preop vs 2y p-value
0.02914589

Preop vs 5y p-value
0.1337442

6m vs 2y p-value
0.2058682

2y vs 5y p-value
0.5224962

6m vs 5y p-value
0.5873769

SF36 - PCS tests L5
Preop vs 6m p-value
0.08461802

Preop vs 2y p-value
0.004429819

Preop vs 5y p-value
0.0179498

6m vs 2y p-value
0.1948625

2y vs 5y p-value
0.7219385

6w vs 5y p-value
0.3897391

SF36 - MCS - mean
All
[1] 42.92
L4
[1] 41.38
L5
[1] 44.65

L4 vs L5 p-value:[1] 0.2703331

SF36 - MCS - sd
All
[1] 12.22
L4
[1] 11.67
L5
[1] 12.76

```
6M. SF36 - MCS - mean
All
[1] 47.01
L4
[1] 47.37
L5
[1] 46.58

L4 vs L5 p-value:[1] 0.7971493


6M. SF36 - MCS - sd
All
[1] 11.97
L4
[1] 11.65
L5
[1] 12.53




1Y. SF36 - MCS - mean
All
[1] 48.59
L4
[1] 50.35
L5
[1] 46.55

L4 vs L5 p-value:[1] 0.2102345


1Y. SF36 - MCS - sd
All
[1] 11.8
L4
[1] 9.83
L5
[1] 13.63




2Y. SF36 - MCS - mean
All
[1] 48.93
L4
[1] 48.61
L5
[1] 49.29

L4 vs L5 p-value:[1] 0.8107226
```

2Y. SF36 - MCS - sd
All
[1] 11.5
L4
[1] 10.27
L5
[1] 12.92

5Y. SF36 - MCS - mean
All
[1] 49
L4
[1] 49.95
L5
[1] 47.91

L4 vs L5 p-value:[1] 0.493106

5Y. SF36 - MCS - sd
All
[1] 10.84
L4
[1] 10.32
L5
[1] 11.52

SF36 - MCS tests all
Preop vs 6m p-value
0.05394641

Preop vs 2y p-value
0.003163554

Preop vs 5y p-value
0.003741521

6m vs 2y p-value
0.346518

2y vs 5y p-value
0.9696461

6w vs 5y p-value
0.3414496

SF36 - MCS tests L4
Preop vs 6m p-value

0.03418689

Preop vs 2y p-value
0.00578402

Preop vs 5y p-value
0.002241572

6m vs 2y p-value
0.6340395

2y vs 5y p-value
0.598396

6m vs 5y p-value
0.3519881

SF36 - MCS tests L5
Preop vs 6m p-value
0.5507323

Preop vs 2y p-value
0.1471907

Preop vs 5y p-value
0.3068772

6m vs 2y p-value
0.4058477

2y vs 5y p-value
0.6684579

6w vs 5y p-value
0.6817864

Surgery

Total Operative Blood Loss st1+st2+st3 - mean
All
[1] 1328.71
L4
[1] 1174.57
L5
[1] 1502.74

L4 vs L5 p-value:[1] 0.1526067

Total Operative Blood Loss st1+st2+st3 - sd
All
[1] 911.43
L4

```
[1] 786.15
L5
[1] 1020




Total surgical time st1+st2+st3 - mean
All
[1] 320.64
L4
[1] 275.29
L5
[1] 371.32

L4 vs L5 p-value:[1] 0.03218806


Total surgical time st1+st2+st3 - sd
All
[1] 185.87
L4
[1] 139.42
L5
[1] 217.99




Number of Posterior Instrumented Levels - mean
All
[1] 9.81
L4
[1] 10.08
L5
[1] 9.5

L4 vs L5 p-value:[1] 0.5236054


Number of Posterior Instrumented Levels - sd
All
[1] 3.76
L4
[1] 3.37
L5
[1] 4.19




Pelvic fixation - table
All
variable
No
72
L4
```

```
variable
No
38
L5
variable
No
34


Pelvic fixation - proportion
All
variable
No
 1
L4
variable
No
 1
L5
variable
No
 1




Surgical Approach - table
All
variable
 Anterior-Posterior          Posterior Posterior-Posterior
                1                 70                    1
L4
variable
Posterior
      38
L5
variable
 Anterior-Posterior          Posterior Posterior-Posterior
                1                 32                    1

Surgical Approach - proportion
All
variable
 Anterior-Posterior          Posterior Posterior-Posterior
        0.01388889         0.97222222           0.01388889
L4
variable
Posterior
       1
L5
variable
 Anterior-Posterior          Posterior Posterior-Posterior
        0.02941176         0.94117647           0.02941176
```

```
Number of Interbody Fusions - mean
All
[1] 0.6
L4
[1] 0.24
L5
[1] 1

L4 vs L5 p-value:[1] 0.006254776


Number of Interbody Fusions - sd
All
[1] 1.13
L4
[1] 0.54
L5
[1] 1.46




Decompression - table
All
variable
 No Yes
 56  16
L4
variable
 No Yes
 31   7
L5
variable
 No Yes
 25   9

Decompression - proportion
All
variable
       No       Yes
0.7777778 0.2222222
L4
variable
       No       Yes
0.8157895 0.1842105
L5
variable
       No       Yes
0.7352941 0.2647059




Interbody Fusion - table
All
variable
```

```
 No Yes
 49  23
L4
variable
 No Yes
 31   7
L5
variable
 No Yes
 18  16


Interbody Fusion - proportion
All
variable
        No       Yes
0.6805556 0.3194444
L4
variable
        No       Yes
0.8157895 0.1842105
L5
variable
        No       Yes
0.5294118 0.4705882




Osteotomy - table
All
variable
 No Yes
 42  30
L4
variable
 No Yes
 20  18
L5
variable
 No Yes
 22  12

Osteotomy - proportion
All
variable
        No       Yes
0.5833333 0.4166667
L4
variable
        No       Yes
0.5263158 0.4736842
L5
variable
        No       Yes
0.6470588 0.3529412
```

```
3CO - table
All
variable
 No Yes
 61  11
L4
variable
 No Yes
 33   5
L5
variable
 No Yes
 28   6


3CO - proportion
All
variable
       No       Yes
0.8472222 0.1527778
L4
variable
       No       Yes
0.8684211 0.1315789
L5
variable
       No       Yes
0.8235294 0.1764706
```

Before 2Y

Reinterventions

```
   group reiqs patients total
1:   all    22       13    72
2:    L4     3        3    38
3:    L5    19       10    34


  p_val_1_total p_val_2_total  p_val_1_2
1     0.2489214     0.2839063 0.03913364
```

Impacts

```
   Complication Impact all_num all_patients L4_num L4_patients L5_num
1:        Adverse Event       1            1      0           0      1
2:  Major Complication       27           15      4           3     23
3:  Minor Complication       22           18      6           6     16
   L5_patients total_all L4 L5 p_val_1_total p_val_2_total  p_val_1_2
1:           1        72 38 34     1.0000000     1.0000000 0.95531635
```

```
2:              12          72 38 34        0.1406810        0.1750410 0.01024896
3:              12          72 38 34        0.3845955        0.3858175 0.10194028
```

Categories

```
           Category of the complication all_num all_patients L4_num L4_patients
1:                           Iatrogenic       4            4      1           1
2:              Infectious complications       8            6      1           1
3:              Mechanical complications      19           15      4           4
4:                    Other complications     12           10      3           3
5:                                 Pain       2            1      0           0
6: Peripheral neurologic complications       5            5      1           1
   L5_num L5_patients total_all L4 L5 p_val_1_total p_val_2_total  p_val_1_2
1:      3           3      72 38 34      0.8268249        0.8309958 0.52882491
2:      7           5      72 38 34      0.4507234        0.5073181 0.15458065
3:     15          11      72 38 34      0.2736795        0.2960955 0.04702936
4:      9           7      72 38 34      0.5382440        0.5526362 0.22492875
5:      2           1      72 38 34      1.0000000        1.0000000 0.95531635
6:      4           4      72 38 34      0.6130725        0.6471130 0.29023229
```

Categories Major Complications

```
           Category of the complication all_num all_patients L4_num L4_patients
1:                           Iatrogenic       3            3      1           1
2:              Infectious complications       7            5      1           1
3:              Mechanical complications       9            7      0           0
4:                    Other complications      2            2      1           1
5:                                 Pain       2            1      0           0
6: Peripheral neurologic complications       4            4      1           1
   L5_num L5_patients total_all L4 L5 p_val_1_total p_val_2_total  p_val_1_2
1:      2           2      72 38 34      1.0000000        1.0000000 0.92157761
2:      6           4      72 38 34      0.6130725        0.6471130 0.29023229
3:      9           7      72 38 34      0.1151120        0.2168285 0.01091506
4:      1           1      72 38 34      1.0000000        1.0000000 1.00000000
5:      2           1      72 38 34      1.0000000        1.0000000 0.95531635
6:      3           3      72 38 34      0.8268249        0.8309958 0.52882491
```

From 2Y - 5Y

Reinterventions

```
   group reiqs patients total
1:   all    10        7    72
2:    L4     3        3    38
3:    L5     7        4    34


  p_val_1_total p_val_2_total p_val_1_2
1             1             1 0.8768704
```

Impacts

	Complication Impact	all_num	all_patients	L4_num	L4_patients	L5_num
1:	Major Complication	11	8	3	3	8
2:	Minor Complication	2	2	1	1	1

	L5_patients	total_all	L4	L5	p_val_1_total	p_val_2_total	p_val_1_2
1:	5	72	38	34	0.8410809	0.8340888	0.587471
2:	1	72	38	34	1.0000000	1.0000000	1.000000

Categories

	Category of the complication	all_num	all_patients	L4_num	L4_patients	L5_num
1:	Infectious complications	3	2	1	1	2
2:	Mechanical complications	10	8	3	2	7

	L5_patients	total_all	L4	L5	p_val_1_total	p_val_2_total	p_val_1_2
1:	1	72	38	34	1.0000000	1.0000000	1.0000000
2:	6	72	38	34	0.5055548	0.5349933	0.1957813

Categories Major Complications

	Category of the complication	all_num	all_patients	L4_num	L4_patients	L5_num
1:	Infectious complications	3	2	1	1	2
2:	Mechanical complications	8	7	2	2	6

	L5_patients	total_all	L4	L5	p_val_1_total	p_val_2_total	p_val_1_2
1:	1	72	38	34	1.0000000	1.0000000	1.0000000
2:	5	72	38	34	0.6558966	0.6690111	0.3412184

Before 5Y

Reinterventions

	group	reiqs	patients	total
1:	all	32	17	72
2:	L4	6	6	38
3:	L5	26	11	34

	p_val_1_total	p_val_2_total	p_val_1_2
1	0.4760262	0.4734478	0.1693803

Impacts

	Complication Impact	all_num	all_patients	L4_num	L4_patients	L5_num
1:	Adverse Event	1	1	0	0	1
2:	Major Complication	38	19	7	6	31
3:	Minor Complication	24	19	7	7	17

	L5_patients	total_all	L4	L5	p_val_1_total	p_val_2_total	p_val_1_2
1:	1	72	38	34	1.0000000	1.0000000	0.95531635
2:	13	72	38	34	0.3066965	0.3108426	0.05882074
3:	12	72	38	34	0.4843283	0.4764245	0.17576325

Categories

	Category of the complication	all_num	all_patients	L4_num	L4_patients
1:	Iatrogenic	4	4	1	1
2:	Infectious complications	11	8	2	2
3:	Mechanical complications	29	19	7	6
4:	Other complications	12	10	3	3
5:	Pain	2	1	0	0
6:	Peripheral neurologic complications	5	5	1	1

	L5_num	L5_patients	total_all	L4	L5	p_val_1_total	p_val_2_total	p_val_1_2
1:	3	3	72	38	34	0.8268249	0.8309958	0.52882491
2:	9	6	72	38	34	0.5055548	0.5349933	0.19578130
3:	22	13	72	38	34	0.3066965	0.3108426	0.05882074
4:	9	7	72	38	34	0.5382440	0.5526362	0.22492875
5:	2	1	72	38	34	1.0000000	1.0000000	0.95531635
6:	4	4	72	38	34	0.6130725	0.6471130	0.29023229

Categories Major Complications

	Category of the complication	all_num	all_patients	L4_num	L4_patients
1:	Iatrogenic	3	3	1	1
2:	Infectious complications	10	7	2	2
3:	Mechanical complications	17	12	2	2
4:	Other complications	2	2	1	1
5:	Pain	2	1	0	0
6:	Peripheral neurologic complications	4	4	1	1

	L5_num	L5_patients	total_all	L4	L5	p_val_1_total	p_val_2_total	p_val_1_2
1:	2	2	72	38	34	1.0000000	1.0000000	0.92157761
2:	8	5	72	38	34	0.6558966	0.6690111	0.34121838
3:	15	10	72	38	34	0.1598333	0.2099486	0.01517552
4:	1	1	72	38	34	1.0000000	1.0000000	1.00000000
5:	2	1	72	38	34	1.0000000	1.0000000	0.95531635
6:	3	3	72	38	34	0.8268249	0.8309958	0.52882491