

## Loss of alignment

Initial Patients: 372

With Posterior Instrumented Fusion: 348

Posterior Instrumental Fusion is Iliac: 134

Differences smaller than  $10^\circ$  in 6W-2Y Lordosis (top of L1-S1): 112

Without complications (PJK, PJF, DJK, DJF) ever after surgery: 81

UIV frequencies

	uiv	N
1:	Iliac	1
2:	L1	4
3:	L2	3
4:	L3	3
5:	L5	1
6:	T10	22
7:	T11	9
8:	T12	13
9:	T2	7
10:	T3	6
11:	T4	3
12:	T5	1
13:	T7	1
14:	T8	1
15:	T9	6

### Demographics

Age

Age - mean

All

[1] 61.95

Age - sd

All

[1] 10.4

Gender

Gender - table

All

variable

Female	Male
68	13

Gender - proportion

```
All
variable
  Female      Male
0.8395062 0.1604938
```

```
Prior Spine Surgery
Prior Spine Surgery - table
All
variable
  No Yes
  46 35
Prior Spine Surgery - proportion
All
variable
  No      Yes
0.5679012 0.4320988
```

```
Height (cm)_First Visit
Height (cm)_First Visit - mean
All
[1] 161.79
Height (cm)_First Visit - sd
All
[1] 9.03
```

```
Weight (kgs)_First Visit
Weight (kgs)_First Visit - mean
All
[1] 66.33
Weight (kgs)_First Visit - sd
All
[1] 12.7
```

```
BMI_First Visit
BMI_First Visit - mean
All
[1] 25.23
BMI_First Visit - sd
All
[1] 3.52
```

```
ASA classification
ASA classification - table
All
variable
  1 2 3
15 56 10
ASA classification - proportion
All
```

```

variable
      1      2      3
0.1851852 0.6913580 0.1234568

```

```

Tobacco use_First Visit
Tobacco use_First Visit - table
All

```

```

variable
  Current      Ex Non-User
      19      18      44
Tobacco use_First Visit - proportion
All
variable
  Current      Ex Non-User
0.2345679 0.2222222 0.5432099

```

```

ESSG Diagnosis
ESSG Diagnosis - table
All

```

```

variable
  Congenital    Degenerative    Failed-back    Idiopathic    Neuromuscular
          3          36          9          26          3
Post-traumatic    Syndromic
          3          1
ESSG Diagnosis - proportion
All
variable
  Congenital    Degenerative    Failed-back    Idiopathic    Neuromuscular
0.03703704    0.44444444    0.11111111    0.32098765    0.03703704
Post-traumatic    Syndromic
0.03703704    0.01234568

```

```

Surgical Approach
Surgical Approach - table
All

```

```

variable
  Anterior-Posterior    Posterior
          1          72
  Posterior-Anterior    Posterior-Posterior-Anterior
          7          1
Surgical Approach - proportion
All
variable
  Anterior-Posterior    Posterior
0.01234568    0.88888889
  Posterior-Anterior    Posterior-Posterior-Anterior
0.08641975    0.01234568

```

## Radiology

Static Major curve Cobb angle  
Static Major curve Cobb angle - mean  
All  
[1] 41.11  
Static Major curve Cobb angle - sd  
All  
[1] 22.39

6W. Static Major curve Cobb angle  
6W. Static Major curve Cobb angle - mean  
All  
[1] 24.07  
6W. Static Major curve Cobb angle - sd  
All  
[1] 16.73

6M. Static Major curve Cobb angle  
6M. Static Major curve Cobb angle - mean  
All  
[1] 22.32  
6M. Static Major curve Cobb angle - sd  
All  
[1] 18.41

1Y. Static Major curve Cobb angle  
1Y. Static Major curve Cobb angle - mean  
All  
[1] 20.23  
1Y. Static Major curve Cobb angle - sd  
All  
[1] 17.14

2Y. Static Major curve Cobb angle  
2Y. Static Major curve Cobb angle - mean  
All  
[1] 19.08  
2Y. Static Major curve Cobb angle - sd  
All  
[1] 15.77

5Y. Static Major curve Cobb angle  
5Y. Static Major curve Cobb angle - mean  
All  
[1] 24.77  
5Y. Static Major curve Cobb angle - sd  
All  
[1] 15.97

Static Major curve Cobb angle tests

Preop vs 6w p-value

6.31094e-07

Preop vs 2y p-value

2.242062e-10

Preop vs 5y p-value

2.120188e-05

6w vs 2y p-value

0.07119017

2y vs 5y p-value

0.08058034

6w vs 5y p-value

0.8326101

Coronal Balance (C7PL to CSVL)

Coronal Balance (C7PL to CSVL) - mean

All

[1] 30.49

Coronal Balance (C7PL to CSVL) - sd

All

[1] 26.41

6W. Coronal Balance (C7PL to CSVL)

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

All

[1] 20.18

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

All

[1] 14.57

6M. Coronal Balance (C7PL to CSVL)

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

All

[1] 21.22

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

All

[1] 16.82

1Y. Coronal Balance (C7PL to CSVL)

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

All

[1] 21.86

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

All

```

[1] 16.67

2Y. Coronal Balance (C7PL to CSVL)
2Y. Coronal Balance (C7PL to CSVL) - mean
All
[1] 21.04
2Y. Coronal Balance (C7PL to CSVL) - sd
All
[1] 18.22

5Y. Coronal Balance (C7PL to CSVL)
5Y. Coronal Balance (C7PL to CSVL) - mean
All
[1] 30.43
5Y. Coronal Balance (C7PL to CSVL) - sd
All
[1] 21.9

Coronal Balance (C7PL to CSVL) tests
Preop vs 6w p-value
0.003176821

Preop vs 2y p-value
0.01212645

Preop vs 5y p-value
0.9894757

6w vs 2y p-value
0.7563485

2y vs 5y p-value
0.02813677

6w vs 5y p-value
0.01164552

Sagittal Balance
Sagittal Balance - mean
All
[1] 74.48
Sagittal Balance - sd
All
[1] 59.41

6W. Sagittal Balance
6W. Sagittal Balance - mean
All
[1] 23.73
6W. Sagittal Balance - sd

```

```
All
[1] 29.57
```

```
6M. Sagittal Balance
6M. Sagittal Balance - mean
All
[1] 18.73
6M. Sagittal Balance - sd
All
[1] 34.37
```

```
1Y. Sagittal Balance
1Y. Sagittal Balance - mean
All
[1] 23.48
1Y. Sagittal Balance - sd
All
[1] 39.48
```

```
2Y. Sagittal Balance
2Y. Sagittal Balance - mean
All
[1] 33.43
2Y. Sagittal Balance - sd
All
[1] 42.79
```

```
5Y. Sagittal Balance
5Y. Sagittal Balance - mean
All
[1] 34.87
5Y. Sagittal Balance - sd
All
[1] 54.02
```

```
Sagittal Balance tests
Preop vs 6w p-value
9.051812e-10
```

```
Preop vs 2y p-value
4.357273e-06
```

```
Preop vs 5y p-value
0.0005922464
```

```
6w vs 2y p-value
0.1251642
```

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

0.8886877

6w vs 5y p-value  
0.2422507

Sagittal T2-T5  
Sagittal T2-T5 - mean  
All  
[1] 9.56  
Sagittal T2-T5 - sd  
All  
[1] 7.68

6W. Sagittal T2-T5  
6W. Sagittal T2-T5 - mean  
All  
[1] 14.2  
6W. Sagittal T2-T5 - sd  
All  
[1] 8.75

6M. Sagittal T2-T5  
6M. Sagittal T2-T5 - mean  
All  
[1] 12.59  
6M. Sagittal T2-T5 - sd  
All  
[1] 7.59

1Y. Sagittal T2-T5  
1Y. Sagittal T2-T5 - mean  
All  
[1] 11.79  
1Y. Sagittal T2-T5 - sd  
All  
[1] 6.99

2Y. Sagittal T2-T5  
2Y. Sagittal T2-T5 - mean  
All  
[1] 11.76  
2Y. Sagittal T2-T5 - sd  
All  
[1] 7.59

5Y. Sagittal T2-T5  
5Y. Sagittal T2-T5 - mean  
All  
[1] 13.96



5Y. Sagittal T2-T5 - sd  
All  
[1] 8.79

Sagittal T2-T5 tests  
Preop vs 6w p-value  
0.0008314383

Preop vs 2y p-value  
0.08875798

Preop vs 5y p-value  
0.01067862

6w vs 2y p-value  
0.08199945

2y vs 5y p-value  
0.2005279

6w vs 5y p-value  
0.8896984

Sagittal T5-T12  
Sagittal T5-T12 - mean  
All  
[1] 28.69  
Sagittal T5-T12 - sd  
All  
[1] 19.06

6W. Sagittal T5-T12  
6W. Sagittal T5-T12 - mean  
All  
[1] 33.79  
6W. Sagittal T5-T12 - sd  
All  
[1] 14.51

6M. Sagittal T5-T12  
6M. Sagittal T5-T12 - mean  
All  
[1] 37.11  
6M. Sagittal T5-T12 - sd  
All  
[1] 14

1Y. Sagittal T5-T12  
1Y. Sagittal T5-T12 - mean  
All

```

[1] 36.32
1Y. Sagittal T5-T12 - sd
All
[1] 13.76

2Y. Sagittal T5-T12
2Y. Sagittal T5-T12 - mean
All
[1] 37.65
2Y. Sagittal T5-T12 - sd
All
[1] 14.67

5Y. Sagittal T5-T12
5Y. Sagittal T5-T12 - mean
All
[1] 40.9
5Y. Sagittal T5-T12 - sd
All
[1] 16.5

Sagittal T5-T12 tests
Preop vs 6w p-value
0.061763

Preop vs 2y p-value
0.001660279

Preop vs 5y p-value
0.000611522

6w vs 2y p-value
0.1153285

2y vs 5y p-value
0.315819

6w vs 5y p-value
0.02694557

Sagittal T2-T12
Sagittal T2-T12 - mean
All
[1] 34.42
Sagittal T2-T12 - sd
All
[1] 18.74

6W. Sagittal T2-T12
6W. Sagittal T2-T12 - mean

```

```

All
[1] 43.61
6W. Sagittal T2-T12 - sd
All
[1] 14.82

6M. Sagittal T2-T12
6M. Sagittal T2-T12 - mean
All
[1] 47.05
6M. Sagittal T2-T12 - sd
All
[1] 14.6

1Y. Sagittal T2-T12
1Y. Sagittal T2-T12 - mean
All
[1] 44.26
1Y. Sagittal T2-T12 - sd
All
[1] 13.49

2Y. Sagittal T2-T12
2Y. Sagittal T2-T12 - mean
All
[1] 44.45
2Y. Sagittal T2-T12 - sd
All
[1] 15.29

5Y. Sagittal T2-T12
5Y. Sagittal T2-T12 - mean
All
[1] 49.3
5Y. Sagittal T2-T12 - sd
All
[1] 15.72

Sagittal T2-T12 tests
Preop vs 6w p-value
0.0008399962

Preop vs 2y p-value
0.0004577813

Preop vs 5y p-value
2.044699e-05

6w vs 2y p-value

```

0.7399216

2y vs 5y p-value  
0.1279878

6w vs 5y p-value  
0.06756269

Lordosis (top of L1-S1)  
Lordosis (top of L1-S1) - mean  
All  
[1] -33.86  
Lordosis (top of L1-S1) - sd  
All  
[1] 17.81

6W. Lordosis (top of L1-S1)  
6W. Lordosis (top of L1-S1) - mean  
All  
[1] -52.86  
6W. Lordosis (top of L1-S1) - sd  
All  
[1] 12.8

6M. Lordosis (top of L1-S1)  
6M. Lordosis (top of L1-S1) - mean  
All  
[1] -52.16  
6M. Lordosis (top of L1-S1) - sd  
All  
[1] 12.65

1Y. Lordosis (top of L1-S1)  
1Y. Lordosis (top of L1-S1) - mean  
All  
[1] -50.01  
1Y. Lordosis (top of L1-S1) - sd  
All  
[1] 12.17

2Y. Lordosis (top of L1-S1)  
2Y. Lordosis (top of L1-S1) - mean  
All  
[1] -50.41  
2Y. Lordosis (top of L1-S1) - sd  
All  
[1] 12.52

5Y. Lordosis (top of L1-S1)

```
5Y. Lordosis (top of L1-S1) - mean
All
[1] -50.11
5Y. Lordosis (top of L1-S1) - sd
All
[1] 11.15
```

```
Lordosis (top of L1-S1) tests
Preop vs 6w p-value
1.484827e-12
```

```
Preop vs 2y p-value
5.532406e-10
```

```
Preop vs 5y p-value
1.643226e-08
```

```
6w vs 2y p-value
0.244915
```

```
2y vs 5y p-value
0.8950094
```

```
6w vs 5y p-value
0.2349949
```

```
Pelvic Incidence
Pelvic Incidence - mean
All
[1] 56.03
Pelvic Incidence - sd
All
[1] 13.1
```

```
6W. Pelvic Incidence
6W. Pelvic Incidence - mean
All
[1] 56.26
6W. Pelvic Incidence - sd
All
[1] 12.62
```

```
6M. Pelvic Incidence
6M. Pelvic Incidence - mean
All
[1] 56.23
6M. Pelvic Incidence - sd
All
[1] 12.96
```

```
1Y. Pelvic Incidence
1Y. Pelvic Incidence - mean
All
[1] 55.33
1Y. Pelvic Incidence - sd
All
[1] 11.96
```

```
2Y. Pelvic Incidence
2Y. Pelvic Incidence - mean
All
[1] 55.05
2Y. Pelvic Incidence - sd
All
[1] 12.53
```

```
5Y. Pelvic Incidence
5Y. Pelvic Incidence - mean
All
[1] 55.02
5Y. Pelvic Incidence - sd
All
[1] 12.24
```

```
Pelvic Incidence tests
Preop vs 6w p-value
0.9109157
```

```
Preop vs 2y p-value
0.6417229
```

```
Preop vs 5y p-value
0.6804205
```

```
6w vs 2y p-value
0.5631833
```

```
2y vs 5y p-value
0.9886598
```

```
6w vs 5y p-value
0.6117949
```

```
Pelvic Tilt
Pelvic Tilt - mean
All
[1] 26.38
Pelvic Tilt - sd
All
[1] 9.91
```

```
6W. Pelvic Tilt
6W. Pelvic Tilt - mean
All
[1] 18.95
6W. Pelvic Tilt - sd
All
[1] 9.02
```

```
6M. Pelvic Tilt
6M. Pelvic Tilt - mean
All
[1] 21.33
6M. Pelvic Tilt - sd
All
[1] 8.73
```

```
1Y. Pelvic Tilt
1Y. Pelvic Tilt - mean
All
[1] 21.98
1Y. Pelvic Tilt - sd
All
[1] 9.53
```

```
2Y. Pelvic Tilt
2Y. Pelvic Tilt - mean
All
[1] 21.25
2Y. Pelvic Tilt - sd
All
[1] 7.99
```

```
5Y. Pelvic Tilt
5Y. Pelvic Tilt - mean
All
[1] 22.63
5Y. Pelvic Tilt - sd
All
[1] 9.61
```

```
Pelvic Tilt tests
Preop vs 6w p-value
2.001288e-06
```

```
Preop vs 2y p-value
0.0005977822
```

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

0.05087652

6w vs 2y p-value  
0.1030907

2y vs 5y p-value  
0.450312

6w vs 5y p-value  
0.05004852

Sacral Slope  
Sacral Slope - mean  
All  
[1] 29.61  
Sacral Slope - sd  
All  
[1] 10.12

6W. Sacral Slope  
6W. Sacral Slope - mean  
All  
[1] 37.41  
6W. Sacral Slope - sd  
All  
[1] 10.12

6M. Sacral Slope  
6M. Sacral Slope - mean  
All  
[1] 34.89  
6M. Sacral Slope - sd  
All  
[1] 9.89

1Y. Sacral Slope  
1Y. Sacral Slope - mean  
All  
[1] 33.33  
1Y. Sacral Slope - sd  
All  
[1] 8.72

2Y. Sacral Slope  
2Y. Sacral Slope - mean  
All  
[1] 34.17  
2Y. Sacral Slope - sd  
All  
[1] 9.31



```
5Y. Sacral Slope
5Y. Sacral Slope - mean
All
[1] 32.39
5Y. Sacral Slope - sd
All
[1] 7.5
```

```
Sacral Slope tests
Preop vs 6w p-value
2.983184e-06
```

```
Preop vs 2y p-value
0.004452547
```

```
Preop vs 5y p-value
0.09424787
```

```
6w vs 2y p-value
0.04495864
```

```
2y vs 5y p-value
0.2775048
```

```
6w vs 5y p-value
0.003215771
```

```
RLL
RLL - mean
All
[1] -29.88
RLL - sd
All
[1] 16.56
```

```
6W. RLL
6W. RLL - mean
All
[1] -10.97
6W. RLL - sd
All
[1] 11.38
```

```
6M. RLL
6M. RLL - mean
All
[1] -11.7
6M. RLL - sd
All
```

```

[1] 10.96

1Y. RLL
1Y. RLL - mean
All
[1] -13.29
1Y. RLL - sd
All
[1] 11.16

2Y. RLL
2Y. RLL - mean
All
[1] -12.57
2Y. RLL - sd
All
[1] 10.92

5Y. RLL
5Y. RLL - mean
All
[1] -13.01
5Y. RLL - sd
All
[1] 11.48

RLL tests
Preop vs 6w p-value
4.155988e-14

Preop vs 2y p-value
2.838507e-12

Preop vs 5y p-value
3.095063e-09

6w vs 2y p-value
0.389803

2y vs 5y p-value
0.8456667

6w vs 5y p-value
0.3688521

Global Tilt
Global Tilt - mean
All
[1] 34.93
Global Tilt - sd

```

```

All
[1] 16.23

6W. Global Tilt
6W. Global Tilt - mean
All
[1] 20
6W. Global Tilt - sd
All
[1] 10.57

6M. Global Tilt
6M. Global Tilt - mean
All
[1] 21.79
6M. Global Tilt - sd
All
[1] 11.64

1Y. Global Tilt
1Y. Global Tilt - mean
All
[1] 23.01
1Y. Global Tilt - sd
All
[1] 12.27

2Y. Global Tilt
2Y. Global Tilt - mean
All
[1] 24.3
2Y. Global Tilt - sd
All
[1] 11.22

5Y. Global Tilt
5Y. Global Tilt - mean
All
[1] 25.92
5Y. Global Tilt - sd
All
[1] 15.63

Global Tilt tests
Preop vs 6w p-value
2.371706e-10

Preop vs 2y p-value

```

6.767724e-06

Preop vs 5y p-value  
0.00457506

6w vs 2y p-value  
0.02163461

2y vs 5y p-value  
0.5738265

6w vs 5y p-value  
0.03827441

T1 Sagittal Tilt  
T1 Sagittal Tilt - mean  
All  
[1] 0.46  
T1 Sagittal Tilt - sd  
All  
[1] 6.48

6W. T1 Sagittal Tilt  
6W. T1 Sagittal Tilt - mean  
All  
[1] -3.69  
6W. T1 Sagittal Tilt - sd  
All  
[1] 3.32

6M. T1 Sagittal Tilt  
6M. T1 Sagittal Tilt - mean  
All  
[1] -4.08  
6M. T1 Sagittal Tilt - sd  
All  
[1] 3.65

1Y. T1 Sagittal Tilt  
1Y. T1 Sagittal Tilt - mean  
All  
[1] -4.25  
1Y. T1 Sagittal Tilt - sd  
All  
[1] 4.15

2Y. T1 Sagittal Tilt  
2Y. T1 Sagittal Tilt - mean  
All  
[1] -3.28

```
2Y. T1 Sagittal Tilt - sd
All
[1] 4.13
```

```
5Y. T1 Sagittal Tilt
5Y. T1 Sagittal Tilt - mean
All
[1] -2.23
5Y. T1 Sagittal Tilt - sd
All
[1] 6.83
```

```
T1 Sagittal Tilt tests
Preop vs 6w p-value
6.338175e-06
```

```
Preop vs 2y p-value
0.0001030406
```

```
Preop vs 5y p-value
0.04808163
```

```
6w vs 2y p-value
0.5302802
```

```
2y vs 5y p-value
0.3894347
```

```
6w vs 5y p-value
0.2158948
```

```
Thoracolumbar L2-T10
Thoracolumbar L2-T10 - mean
All
[1] 7.01
Thoracolumbar L2-T10 - sd
All
[1] 20.11
```

```
6W. Thoracolumbar L2-T10
6W. Thoracolumbar L2-T10 - mean
All
[1] 6.81
6W. Thoracolumbar L2-T10 - sd
All
[1] 10.54
```

```
6M. Thoracolumbar L2-T10
6M. Thoracolumbar L2-T10 - mean
All
```

```

[1] 6.46
6M. Thoracolumbar L2-T10 - sd
All
[1] 9.07

1Y. Thoracolumbar L2-T10
1Y. Thoracolumbar L2-T10 - mean
All
[1] 5.71
1Y. Thoracolumbar L2-T10 - sd
All
[1] 9.85

2Y. Thoracolumbar L2-T10
2Y. Thoracolumbar L2-T10 - mean
All
[1] 5.46
2Y. Thoracolumbar L2-T10 - sd
All
[1] 11.91

5Y. Thoracolumbar L2-T10
5Y. Thoracolumbar L2-T10 - mean
All
[1] 4.26
5Y. Thoracolumbar L2-T10 - sd
All
[1] 11.67

Thoracolumbar L2-T10 tests
Preop vs 6w p-value
0.9411499

Preop vs 2y p-value
0.5682189

Preop vs 5y p-value
0.3577141

6w vs 2y p-value
0.4761832

2y vs 5y p-value
0.6170826

6w vs 5y p-value
0.2625643

RSA
RSA - mean

```

```

All
[1] 23.03
RSA - sd
All
[1] 13.95

6W. RSA
6W. RSA - mean
All
[1] 7.89
6W. RSA - sd
All
[1] 8.05

6M. RSA
6M. RSA - mean
All
[1] 9.79
6M. RSA - sd
All
[1] 8.9

1Y. RSA
1Y. RSA - mean
All
[1] 11.4
1Y. RSA - sd
All
[1] 9.24

2Y. RSA
2Y. RSA - mean
All
[1] 12.66
2Y. RSA - sd
All
[1] 8.48

5Y. RSA
5Y. RSA - mean
All
[1] 14.51
5Y. RSA - sd
All
[1] 12.06

RSA tests
Preop vs 6w p-value

```

7.955734e-14

Preop vs 2y p-value  
1.463142e-07

Preop vs 5y p-value  
0.0008939204

6w vs 2y p-value  
0.0008648407

2y vs 5y p-value  
0.4042442

6w vs 5y p-value  
0.003151743

RPV  
RPV - mean  
All  
[1] -12.45  
RPV - sd  
All  
[1] 7.64

6W. RPV  
6W. RPV - mean  
All  
[1] -4.78  
6W. RPV - sd  
All  
[1] 7.27

6M. RPV  
6M. RPV - mean  
All  
[1] -7.28  
6M. RPV - sd  
All  
[1] 6.65

1Y. RPV  
1Y. RPV - mean  
All  
[1] -8.31  
1Y. RPV - sd  
All  
[1] 7.08

2Y. RPV



```
2Y. RPV - mean
All
[1] -7.31
2Y. RPV - sd
All
[1] 6.21
```

```
5Y. RPV
5Y. RPV - mean
All
[1] -9.07
5Y. RPV - sd
All
[1] 6.43
```

```
RPV tests
Preop vs 6w p-value
1.184489e-09
```

```
Preop vs 2y p-value
1.051291e-05
```

```
Preop vs 5y p-value
0.01314651
```

```
6w vs 2y p-value
0.02426164
```

```
2y vs 5y p-value
0.1678561
```

```
6w vs 5y p-value
0.001632441
```

## Quality of Life

```
ODI - Score (%)
ODI - Score (%) - mean
All
[1] 44.87
ODI - Score (%) - sd
All
[1] 17.14
```

```
6M. ODI - Score (%)
6M. ODI - Score (%) - mean
All
[1] 29.81
6M. ODI - Score (%) - sd
All
```

```

[1] 17.59

1Y. ODI - Score (%)
1Y. ODI - Score (%) - mean
All
[1] 29.14
1Y. ODI - Score (%) - sd
All
[1] 18.05

2Y. ODI - Score (%)
2Y. ODI - Score (%) - mean
All
[1] 31.11
2Y. ODI - Score (%) - sd
All
[1] 22.13

5Y. ODI - Score (%)
5Y. ODI - Score (%) - mean
All
[1] 35.22
5Y. ODI - Score (%) - sd
All
[1] 23.67

ODI - Score (%) tests
Preop vs 6m p-value
3.99411e-07

Preop vs 2y p-value
4.82795e-05

Preop vs 5y p-value
0.009285463
2y vs 5y p-value
0.3088295

6m vs 5y p-value
0.1438032

SRS22 - Function / Activity
SRS22 - Function / Activity - mean
All
[1] 2.76
SRS22 - Function / Activity - sd
All
[1] 0.7

```

```
6M. SRS22 - Function / Activity
6M. SRS22 - Function / Activity - mean
All
[1] 3.1
6M. SRS22 - Function / Activity - sd
All
[1] 0.72
```

```
1Y. SRS22 - Function / Activity
1Y. SRS22 - Function / Activity - mean
All
[1] 3.2
1Y. SRS22 - Function / Activity - sd
All
[1] 0.77
```

```
2Y. SRS22 - Function / Activity
2Y. SRS22 - Function / Activity - mean
All
[1] 3.33
2Y. SRS22 - Function / Activity - sd
All
[1] 0.86
```

```
5Y. SRS22 - Function / Activity
5Y. SRS22 - Function / Activity - mean
All
[1] 3.2
5Y. SRS22 - Function / Activity - sd
All
[1] 0.99
```

```
SRS22 - Function / Activity tests
Preop vs 6m p-value
0.00301166
```

```
Preop vs 2y p-value
1.760764e-05
```

```
Preop vs 5y p-value
0.003540498
2y vs 5y p-value
0.4359908
```

```
6m vs 5y p-value
0.5140673
```

```
SRS22 - Pain
```

SRS22 - Pain - mean

All

[1] 2.31

SRS22 - Pain - sd

All

[1] 0.75

6M. SRS22 - Pain

6M. SRS22 - Pain - mean

All

[1] 3.45

6M. SRS22 - Pain - sd

All

[1] 0.92

1Y. SRS22 - Pain

1Y. SRS22 - Pain - mean

All

[1] 3.6

1Y. SRS22 - Pain - sd

All

[1] 1

2Y. SRS22 - Pain

2Y. SRS22 - Pain - mean

All

[1] 3.41

2Y. SRS22 - Pain - sd

All

[1] 1.16

5Y. SRS22 - Pain

5Y. SRS22 - Pain - mean

All

[1] 3.19

5Y. SRS22 - Pain - sd

All

[1] 1.17

SRS22 - Pain tests

Preop vs 6m p-value

3.834384e-14

Preop vs 2y p-value

3.735844e-10

Preop vs 5y p-value

1.448376e-06

2y vs 5y p-value  
0.2801261

6m vs 5y p-value  
0.1535317

SRS22 - Self image / Appearance  
SRS22 - Self image / Appearance - mean  
All  
[1] 2.05  
SRS22 - Self image / Appearance - sd  
All  
[1] 0.65

6M. SRS22 - Self image / Appearance  
6M. SRS22 - Self image / Appearance - mean  
All  
[1] 3.47  
6M. SRS22 - Self image / Appearance - sd  
All  
[1] 0.8

1Y. SRS22 - Self image / Appearance  
1Y. SRS22 - Self image / Appearance - mean  
All  
[1] 3.5  
1Y. SRS22 - Self image / Appearance - sd  
All  
[1] 0.74

2Y. SRS22 - Self image / Appearance  
2Y. SRS22 - Self image / Appearance - mean  
All  
[1] 3.39  
2Y. SRS22 - Self image / Appearance - sd  
All  
[1] 0.88

5Y. SRS22 - Self image / Appearance  
5Y. SRS22 - Self image / Appearance - mean  
All  
[1] 3.24  
5Y. SRS22 - Self image / Appearance - sd  
All  
[1] 1.01

SRS22 - Self image / Appearance tests  
Preop vs 6m p-value  
2.11428e-23

Preop vs 2y p-value  
3.901873e-19

Preop vs 5y p-value  
3.402989e-12  
2y vs 5y p-value  
0.3721003

6m vs 5y p-value  
0.1486866

SRS22 - Mental health  
SRS22 - Mental health - mean  
All  
[1] 2.98  
SRS22 - Mental health - sd  
All  
[1] 0.89

6M. SRS22 - Mental health  
6M. SRS22 - Mental health - mean  
All  
[1] 3.52  
6M. SRS22 - Mental health - sd  
All  
[1] 0.87

1Y. SRS22 - Mental health  
1Y. SRS22 - Mental health - mean  
All  
[1] 3.62  
1Y. SRS22 - Mental health - sd  
All  
[1] 0.8

2Y. SRS22 - Mental health  
2Y. SRS22 - Mental health - mean  
All  
[1] 3.49  
2Y. SRS22 - Mental health - sd  
All  
[1] 0.94

5Y. SRS22 - Mental health  
5Y. SRS22 - Mental health - mean  
All  
[1] 3.39  
5Y. SRS22 - Mental health - sd

```
All
[1] 1.07
```

```
SRS22 - Mental health tests
Preop vs 6m p-value
0.0002260148
```

```
Preop vs 2y p-value
0.001005481
```

```
Preop vs 5y p-value
0.01681987
2y vs 5y p-value
0.6059316
```

```
6m vs 5y p-value
0.4614196
```

```
SRS22 - SRS Subtotal score
SRS22 - SRS Subtotal score - mean
All
[1] 2.53
SRS22 - SRS Subtotal score - sd
All
[1] 0.56
```

```
6M. SRS22 - SRS Subtotal score
6M. SRS22 - SRS Subtotal score - mean
All
[1] 3.39
6M. SRS22 - SRS Subtotal score - sd
All
[1] 0.66
```

```
1Y. SRS22 - SRS Subtotal score
1Y. SRS22 - SRS Subtotal score - mean
All
[1] 3.49
1Y. SRS22 - SRS Subtotal score - sd
All
[1] 0.67
```

```
2Y. SRS22 - SRS Subtotal score
2Y. SRS22 - SRS Subtotal score - mean
All
[1] 3.4
2Y. SRS22 - SRS Subtotal score - sd
All
[1] 0.83
```

```
5Y. SRS22 - SRS Subtotal score
5Y. SRS22 - SRS Subtotal score - mean
All
[1] 3.26
5Y. SRS22 - SRS Subtotal score - sd
All
[1] 0.95
```

```
SRS22 - SRS Subtotal score tests
Preop vs 6m p-value
7.998537e-15
```

```
Preop vs 2y p-value
9.640517e-12
```

```
Preop vs 5y p-value
6.500786e-07
2y vs 5y p-value
0.3514938
```

```
6m vs 5y p-value
0.3761612
```

```
SF36 - PCS
SF36 - PCS - mean
All
[1] 33.28
SF36 - PCS - sd
All
[1] 7.43
```

```
6M. SF36 - PCS
6M. SF36 - PCS - mean
All
[1] 39.02
6M. SF36 - PCS - sd
All
[1] 8.97
```

```
1Y. SF36 - PCS
1Y. SF36 - PCS - mean
All
[1] 39.62
1Y. SF36 - PCS - sd
All
[1] 9.01
```



```
2Y. SF36 - PCS
2Y. SF36 - PCS - mean
All
[1] 40.2
2Y. SF36 - PCS - sd
All
[1] 9.82
```

```
5Y. SF36 - PCS
5Y. SF36 - PCS - mean
All
[1] 38.31
5Y. SF36 - PCS - sd
All
[1] 11.17
```

```
SF36 - PCS tests
Preop vs 6m p-value
3.995957e-05
```

```
Preop vs 2y p-value
3.997679e-06
```

```
Preop vs 5y p-value
0.003418257
2y vs 5y p-value
0.3081968
```

```
6m vs 5y p-value
0.6894158
```

```
SF36 - MCS
SF36 - MCS - mean
All
[1] 41.44
SF36 - MCS - sd
All
[1] 12.73
```

```
6M. SF36 - MCS
6M. SF36 - MCS - mean
All
[1] 46.86
6M. SF36 - MCS - sd
All
[1] 12.29
```

```
1Y. SF36 - MCS
1Y. SF36 - MCS - mean
```

```
All
[1] 47.09
1Y. SF36 - MCS - sd
All
[1] 11.32
```

```
2Y. SF36 - MCS
2Y. SF36 - MCS - mean
All
[1] 45.92
2Y. SF36 - MCS - sd
All
[1] 12.2
```

```
5Y. SF36 - MCS
5Y. SF36 - MCS - mean
All
[1] 44.34
5Y. SF36 - MCS - sd
All
[1] 13.16
```

```
SF36 - MCS tests
Preop vs 6m p-value
0.009002054
```

```
Preop vs 2y p-value
0.03025966
```

```
Preop vs 5y p-value
0.1982306
2y vs 5y p-value
0.4773596
```

```
6m vs 5y p-value
0.2583441
```

## **Surgery**

```
Total Operative Blood Loss st1+st2+st3
Total Operative Blood Loss st1+st2+st3 - mean
All
[1] 1981.61
Total Operative Blood Loss st1+st2+st3 - sd
All
[1] 1487.89
```

```
Total surgical time st1+st2+st3
```

Total surgical time st1+st2+st3 - mean

All

[1] 316.64

Total surgical time st1+st2+st3 - sd

All

[1] 194.94

Number of Posterior Instrumented Levels

Number of Posterior Instrumented Levels - mean

All

[1] 10.46

Number of Posterior Instrumented Levels - sd

All

[1] 3.86

Pelvic fixation

Pelvic fixation - table

All

variable

Yes

81

Pelvic fixation - proportion

All

variable

Yes

1

Surgical Approach

Surgical Approach - table

All

variable

Anterior-Posterior	Posterior
1	72
Posterior-Anterior	Posterior-Posterior-Anterior
7	1

Surgical Approach - proportion

All

variable

Anterior-Posterior	Posterior
0.01234568	0.88888889
Posterior-Anterior	Posterior-Posterior-Anterior
0.08641975	0.01234568

Number of Interbody Fusions

Number of Interbody Fusions - mean

All

[1] 1.14

Number of Interbody Fusions - sd

All

[1] 1.25

```

Decompression
Decompression - table
All
variable
  No Yes
  59 22
Decompression - proportion
All
variable
  No      Yes
0.7283951 0.2716049

```

```

Interbody Fusion
Interbody Fusion - table
All
variable
  No Yes
  33 48
Interbody Fusion - proportion
All
variable
  No      Yes
0.4074074 0.5925926

```

```

Osteotomy
Osteotomy - table
All
variable
  No Yes
  35 46
Osteotomy - proportion
All
variable
  No      Yes
0.4320988 0.5679012

```

```

3C0
3C0 - table
All
variable
  No Yes
  57 24
3C0 - proportion
All
variable
  No      Yes
0.7037037 0.2962963

```

## Complications before 2Y

Number of reinterventions: 28

	Complication Impact	N
1:	Minor Complication	63
2:	Major Complication	41

	Category of the complication	N
1:	Mechanical complications	35
2:	Other complications	30
3:	Iatrogenic	15
4:	Peripheral neurologic complications	15
5:	Infectious complications	7
6:	Pain	2

Category of Complication for Major Complications

	Category of the complication	N
1:	Other complications	9
2:	Mechanical complications	19
3:	Infectious complications	7
4:	Iatrogenic	2
5:	Peripheral neurologic complications	2
6:	Pain	2

## Number of patients in Complications before 2Y

Number of patients with reinterventions: 17

	Complication Impact	patients_complications
1:	Minor Complication	38
2:	Major Complication	24

	Category of the complication	patients_complications
1:	Mechanical complications	25
2:	Other complications	18
3:	Iatrogenic	12
4:	Peripheral neurologic complications	14
5:	Infectious complications	6
6:	Pain	2

Category of Complication for Major Complications

	Category of the complication	patients_complications
1:	Other complications	7
2:	Mechanical complications	12
3:	Infectious complications	6
4:	Iatrogenic	2
5:	Peripheral neurologic complications	2
6:	Pain	2

## Complications between 2Y and 5Y

Number of reinterventions: 13

	Complication Impact	N
1:	Minor Complication	12
2:	Major Complication	13
3:	Adverse Event	1

	Category of the complication	N
1:	Mechanical complications	22
2:	Pain	3
3:	Iatrogenic	1

Category of Complication for Major Complications

	Category of the complication	N
1:	Mechanical complications	10
2:	Iatrogenic	1
3:	Pain	2

## Number of patients in Complications between 2Y and 5Y

Number of patients with reinterventions: 9

	Complication Impact	patients_complications
1:	Minor Complication	12
2:	Major Complication	9
3:	Adverse Event	1

	Category of the complication	patients_complications
1:	Mechanical complications	18
2:	Pain	3
3:	Iatrogenic	1

Category of Complication for Major Complications

	Category of the complication	patients_complications
1:	Mechanical complications	7
2:	Iatrogenic	1
3:	Pain	2

## Complications before 5Y

Number of reinterventions: 41

	Complication Impact	N
1:	Minor Complication	75
2:	Major Complication	54
3:	Adverse Event	1

	Category of the complication	N
1:	Mechanical complications	57
2:	Other complications	30
3:	Iatrogenic	16
4:	Pain	5
5:	Peripheral neurologic complications	15
6:	Infectious complications	7

#### Category of Complication for Major Complications

	Category of the complication	N
1:	Other complications	9
2:	Mechanical complications	29
3:	Infectious complications	7
4:	Iatrogenic	3
5:	Peripheral neurologic complications	2
6:	Pain	4

#### Number of patients in Complications before 5Y

Number of patients with reinterventions: 22

	Complication Impact patients_complications	
1:	Minor Complication	43
2:	Major Complication	28
3:	Adverse Event	1

	Category of the complication patients_complications	
1:	Mechanical complications	37
2:	Other complications	18
3:	Iatrogenic	13
4:	Pain	5
5:	Peripheral neurologic complications	14
6:	Infectious complications	6

#### Category of Complication for Major Complications

	Category of the complication patients_complications	
1:	Other complications	7
2:	Mechanical complications	15
3:	Infectious complications	6
4:	Iatrogenic	3
5:	Peripheral neurologic complications	2
6:	Pain	4