

Loss of alignment

Initial Patients: 370

With Posterior Instrumented Fusion: 346

Posterior Instrumental Fusion is Iliac: 132

Differences smaller than 10° in 6W-2Y Lordosis (top of L1-S1): 110

Without complications (PJK, PJF, DJK, DJF) ever after surgery: 79

UIV frequencies

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

Demographics

Age

Age - mean

All

[1] 61.92

Age - sd

All

[1] 10.5

Gender

Gender - table

All

variable

Female	Male
66	13

Gender - proportion

All

variable

```
Female      Male
0.835443 0.164557
```

```
Prior Spine Surgery
Prior Spine Surgery - table
All
variable
  No Yes
  46  33
Prior Spine Surgery - proportion
All
variable
      No      Yes
0.5822785 0.4177215
```

```
Height (cm)_First Visit
Height (cm)_First Visit - mean
All
[1] 161.85
Height (cm)_First Visit - sd
All
[1] 9.14
```

```
Weight (kgs)_First Visit
Weight (kgs)_First Visit - mean
All
[1] 66.29
Weight (kgs)_First Visit - sd
All
[1] 12.82
```

```
BMI_First Visit
BMI_First Visit - mean
All
[1] 25.2
BMI_First Visit - sd
All
[1] 3.53
```

```
ASA classification
ASA classification - table
All
variable
  1  2  3
15 55  9
ASA classification - proportion
All
variable
      1      2      3
```

0.1898734 0.6962025 0.1139241

Tobacco use_First Visit

Tobacco use_First Visit - table

All

variable

Current	Ex	Non-User
---------	----	----------

19	17	43
----	----	----

Tobacco use_First Visit - proportion

All

variable

Current	Ex	Non-User
---------	----	----------

0.2405063	0.2151899	0.5443038
-----------	-----------	-----------

ESSG Diagnosis

ESSG Diagnosis - table

All

variable

Congenital	Degenerative	Failed-back	Idiopathic	Neuromuscular
------------	--------------	-------------	------------	---------------

3	36	8	26	2
---	----	---	----	---

Post-traumatic	Syndromic
----------------	-----------

3	1
---	---

ESSG Diagnosis - proportion

All

variable

Congenital	Degenerative	Failed-back	Idiopathic	Neuromuscular
------------	--------------	-------------	------------	---------------

0.03797468	0.45569620	0.10126582	0.32911392	0.02531646
------------	------------	------------	------------	------------

Post-traumatic	Syndromic
----------------	-----------

0.03797468	0.01265823
------------	------------

Surgical Approach

Surgical Approach - table

All

variable

Anterior-Posterior	Posterior
--------------------	-----------

1	70
---	----

Posterior-Anterior	Posterior-Posterior-Anterior
--------------------	------------------------------

7	1
---	---

Surgical Approach - proportion

All

variable

Anterior-Posterior	Posterior
--------------------	-----------

0.01265823	0.88607595
------------	------------

Posterior-Anterior	Posterior-Posterior-Anterior
--------------------	------------------------------

0.08860759	0.01265823
------------	------------

Radiology

Static Major curve Cobb angle

Static Major curve Cobb angle - mean

```

All
[1] 40.7
Static Major curve Cobb angle - sd
All
[1] 22.31

6W. Static Major curve Cobb angle
6W. Static Major curve Cobb angle - mean
All
[1] 23.88
6W. Static Major curve Cobb angle - sd
All
[1] 16.77

6M. Static Major curve Cobb angle
6M. Static Major curve Cobb angle - mean
All
[1] 21.54
6M. Static Major curve Cobb angle - sd
All
[1] 17.96

1Y. Static Major curve Cobb angle
1Y. Static Major curve Cobb angle - mean
All
[1] 19.63
1Y. Static Major curve Cobb angle - sd
All
[1] 16.49

2Y. Static Major curve Cobb angle
2Y. Static Major curve Cobb angle - mean
All
[1] 18.21
2Y. Static Major curve Cobb angle - sd
All
[1] 14.49

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

```

1.081928e-06

Preop vs 2y p-value
7.143763e-11

Preop vs 5y p-value
3.559371e-05

6w vs 2y p-value
0.03582374

2y vs 5y p-value
0.04005799

6w vs 5y p-value
0.786102

Coronal Balance (C7PL to CSVL)
Coronal Balance (C7PL to CSVL) - mean
All
[1] 30.17
Coronal Balance (C7PL to CSVL) - sd
All
[1] 25.85

6W. Coronal Balance (C7PL to CSVL)
6W. Coronal Balance (C7PL to CSVL) - mean
All
[1] 20.3
6W. Coronal Balance (C7PL to CSVL) - sd
All
[1] 14.63

6M. Coronal Balance (C7PL to CSVL)
6M. Coronal Balance (C7PL to CSVL) - mean
All
[1] 21.44
6M. Coronal Balance (C7PL to CSVL) - sd
All
[1] 16.85

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] 20.39
2Y. Coronal Balance (C7PL to CSVL) - sd
All
[1] 17.39
```

```
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
0.004540926
```

```
Preop vs 2y p-value
0.00839223
```

```
Preop vs 5y p-value
0.955953
```

```
6w vs 2y p-value
0.9753007
```

```
2y vs 5y p-value
0.01830705
```

```
6w vs 5y p-value
0.0127905
```

```
Sagittal Balance
Sagittal Balance - mean
All
[1] 71.93
Sagittal Balance - sd
All
[1] 57.9
```

```
6W. Sagittal Balance
6W. Sagittal Balance - mean
All
[1] 23.79
6W. Sagittal Balance - sd
All
[1] 29.77
```

```
6M. Sagittal Balance
6M. Sagittal Balance - mean
All
[1] 18.74
6M. Sagittal Balance - sd
All
[1] 34.63
```

```
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] 31.53
2Y. Sagittal Balance - sd
All
[1] 39.13
```

```
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
3.928081e-09
```

```
Preop vs 2y p-value
3.07691e-06
```

```
Preop vs 5y p-value
0.001191174
```

```
6w vs 2y p-value
0.1989772
```

```
2y vs 5y p-value
0.7405965
```

```
6w vs 5y p-value
0.2453602
```

```

Sagittal T2-T5
Sagittal T2-T5 - mean
All
[1] 9.62
Sagittal T2-T5 - sd
All
[1] 7.73

6W. Sagittal T2-T5
6W. Sagittal T2-T5 - mean
All
[1] 14.17
6W. Sagittal T2-T5 - sd
All
[1] 8.81

6M. Sagittal T2-T5
6M. Sagittal T2-T5 - mean
All
[1] 12.52
6M. Sagittal T2-T5 - sd
All
[1] 7.62

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] 11.77
2Y. Sagittal T2-T5 - sd
All
[1] 7.7

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
0.001243825

Preop vs 2y p-value
0.1025086

Preop vs 5y p-value
0.01202848

6w vs 2y p-value
0.09573296

2y vs 5y p-value
0.2081884

6w vs 5y p-value
0.9063471

Sagittal T5-T12
Sagittal T5-T12 - mean
All
[1] 28.76
Sagittal T5-T12 - sd
All
[1] 18.77

6W. Sagittal T5-T12
6W. Sagittal T5-T12 - mean
All
[1] 33.6
6W. Sagittal T5-T12 - sd
All
[1] 14.5

6M. Sagittal T5-T12
6M. Sagittal T5-T12 - mean
All
[1] 36.98
6M. Sagittal T5-T12 - sd
All
[1] 14.06

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] 38.1
2Y. Sagittal T5-T12 - sd
All
[1] 14.15
```

```
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
0.07676986
```

```
Preop vs 2y p-value
0.0009650035
```

```
Preop vs 5y p-value
0.0006522661
```

```
6w vs 2y p-value
0.06482325
```

```
2y vs 5y p-value
0.3835138
```

```
6w vs 5y p-value
0.02347735
```

```
Sagittal T2-T12
Sagittal T2-T12 - mean
All
[1] 34.48
Sagittal T2-T12 - sd
All
[1] 18.67
```

```
6W. Sagittal T2-T12
6W. Sagittal T2-T12 - mean
All
[1] 43.38
6W. Sagittal T2-T12 - sd
All
```

[1] 14.77

6M. Sagittal T2-T12
6M. Sagittal T2-T12 - mean
All
[1] 46.83
6M. Sagittal T2-T12 - sd
All
[1] 14.59

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] 44.79
2Y. Sagittal T2-T12 - sd
All
[1] 14.77

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
0.001322645

Preop vs 2y p-value
0.0003114677

Preop vs 5y p-value
2.334696e-05

6w vs 2y p-value
0.57168

2y vs 5y p-value
0.1538301

6w vs 5y p-value
0.05741022

Lordosis (top of L1-S1)
Lordosis (top of L1-S1) - mean
All
[1] -34.34
Lordosis (top of L1-S1) - sd
All
[1] 17.68

6W. Lordosis (top of L1-S1)
6W. Lordosis (top of L1-S1) - mean
All
[1] -52.91
6W. Lordosis (top of L1-S1) - sd
All
[1] 12.88

6M. Lordosis (top of L1-S1)
6M. Lordosis (top of L1-S1) - mean
All
[1] -52.85
6M. Lordosis (top of L1-S1) - sd
All
[1] 11.22

1Y. Lordosis (top of L1-S1)
1Y. Lordosis (top of L1-S1) - mean
All
[1] -50.64
1Y. Lordosis (top of L1-S1) - sd
All
[1] 11.08

2Y. Lordosis (top of L1-S1)
2Y. Lordosis (top of L1-S1) - mean
All
[1] -51.04
2Y. Lordosis (top of L1-S1) - sd
All
[1] 11.32

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

5.895114e-12

Preop vs 2y p-value

1.926436e-10

Preop vs 5y p-value

4.204462e-08

6w vs 2y p-value

0.3561141

2y vs 5y p-value

0.680315

6w vs 5y p-value

0.2289314

Pelvic Incidence

Pelvic Incidence - mean

All

[1] 56.16

Pelvic Incidence - sd

All

[1] 13.13

6W. Pelvic Incidence

6W. Pelvic Incidence - mean

All

[1] 56.47

6W. Pelvic Incidence - sd

All

[1] 12.57

6M. Pelvic Incidence

6M. Pelvic Incidence - mean

All

[1] 56.52

6M. Pelvic Incidence - sd

All

[1] 12.99

1Y. Pelvic Incidence

1Y. Pelvic Incidence - mean

All

[1] 55.38

1Y. Pelvic Incidence - sd
All
[1] 12.04

2Y. Pelvic Incidence
2Y. Pelvic Incidence - mean
All
[1] 55.35
2Y. Pelvic Incidence - sd
All
[1] 12.58

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
0.8841369

Preop vs 2y p-value
0.7023452

Preop vs 5y p-value
0.6416791

6w vs 2y p-value
0.5961933

2y vs 5y p-value
0.893582

6w vs 5y p-value
0.5534516

Pelvic Tilt
Pelvic Tilt - mean
All
[1] 26.29
Pelvic Tilt - sd
All
[1] 9.56

6W. Pelvic Tilt
6W. Pelvic Tilt - mean
All

```
[1] 18.91
6W. Pelvic Tilt - sd
All
[1] 9.07
```

```
6M. Pelvic Tilt
6M. Pelvic Tilt - mean
All
[1] 21.13
6M. Pelvic Tilt - sd
All
[1] 8.32
```

```
1Y. Pelvic Tilt
1Y. Pelvic Tilt - mean
All
[1] 21.7
1Y. Pelvic Tilt - sd
All
[1] 9.31
```

```
2Y. Pelvic Tilt
2Y. Pelvic Tilt - mean
All
[1] 21.27
2Y. Pelvic Tilt - sd
All
[1] 8.05
```

```
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
2.102386e-06
```

```
Preop vs 2y p-value
0.0007470959
```

```
Preop vs 5y p-value
0.05534472
```

```
6w vs 2y p-value
0.101533
```

2y vs 5y p-value
0.456605

6w vs 5y p-value
0.04853272

Sacral Slope
Sacral Slope - mean
All
[1] 29.84
Sacral Slope - sd
All
[1] 10.05

6W. Sacral Slope
6W. Sacral Slope - mean
All
[1] 37.66
6W. Sacral Slope - sd
All
[1] 9.95

6M. Sacral Slope
6M. Sacral Slope - mean
All
[1] 35.39
6M. Sacral Slope - sd
All
[1] 9.4

1Y. Sacral Slope
1Y. Sacral Slope - mean
All
[1] 33.67
1Y. Sacral Slope - sd
All
[1] 8.33

2Y. Sacral Slope
2Y. Sacral Slope - mean
All
[1] 34.49
2Y. Sacral Slope - sd
All
[1] 9.26

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
2.7412e-06
```

```
Preop vs 2y p-value
0.004108511
```

```
Preop vs 5y p-value
0.1261418
```

```
6w vs 2y p-value
0.04901675
```

```
2y vs 5y p-value
0.204354
```

```
6w vs 5y p-value
0.001933727
```

```
RLL
RLL - mean
All
[1] -29.48
RLL - sd
All
[1] 16.34
```

```
6W. RLL
6W. RLL - mean
All
[1] -11.05
6W. RLL - sd
All
[1] 11.44
```

```
6M. RLL
6M. RLL - mean
All
[1] -11.2
6M. RLL - sd
All
[1] 9.34
```

```
1Y. RLL
```

```
1Y. RLL - mean
All
[1] -12.7
1Y. RLL - sd
All
[1] 10.08
```

```
2Y. RLL
2Y. RLL - mean
All
[1] -12.12
2Y. RLL - sd
All
[1] 9.61
```

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

```
RLL tests
Preop vs 6w p-value
1.75324e-13
```

```
Preop vs 2y p-value
7.793784e-13
```

```
Preop vs 5y p-value
6.439074e-09
```

```
6w vs 2y p-value
0.5432825
```

```
2y vs 5y p-value
0.6868596
```

```
6w vs 5y p-value
0.3893075
```

```
Global Tilt
Global Tilt - mean
All
[1] 34.57
Global Tilt - sd
All
[1] 16.1
```

```
6W. Global Tilt
6W. Global Tilt - mean
All
[1] 19.97
6W. Global Tilt - sd
All
[1] 10.64
```

```
6M. Global Tilt
6M. Global Tilt - mean
All
[1] 21.59
6M. Global Tilt - sd
All
[1] 11.42
```

```
1Y. Global Tilt
1Y. Global Tilt - mean
All
[1] 22.73
1Y. Global Tilt - sd
All
[1] 12.15
```

```
2Y. Global Tilt
2Y. Global Tilt - mean
All
[1] 24.11
2Y. Global Tilt - sd
All
[1] 10.95
```

```
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
6.917725e-10
```

```
Preop vs 2y p-value
9.240089e-06
```

```
Preop vs 5y p-value
0.006439899
```

6w vs 2y p-value
0.02722186

2y vs 5y p-value
0.5276001

6w vs 5y p-value
0.03771507

T1 Sagittal Tilt
T1 Sagittal Tilt - mean
All
[1] 0.25
T1 Sagittal Tilt - sd
All
[1] 6.35

6W. T1 Sagittal Tilt
6W. T1 Sagittal Tilt - mean
All
[1] -3.67
6W. T1 Sagittal Tilt - sd
All
[1] 3.34

6M. T1 Sagittal Tilt
6M. T1 Sagittal Tilt - mean
All
[1] -4.16
6M. T1 Sagittal Tilt - sd
All
[1] 3.65

1Y. T1 Sagittal Tilt
1Y. T1 Sagittal Tilt - mean
All
[1] -4.33
1Y. T1 Sagittal Tilt - sd
All
[1] 4.13

2Y. T1 Sagittal Tilt
2Y. T1 Sagittal Tilt - mean
All
[1] -3.44
2Y. T1 Sagittal Tilt - sd
All
[1] 3.96

```
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
1.792356e-05
```

```
Preop vs 2y p-value
0.0001073372
```

```
Preop vs 5y p-value
0.06767916
```

```
6w vs 2y p-value
0.7212967
```

```
2y vs 5y p-value
0.318619
```

```
6w vs 5y p-value
0.2222358
```

```
Thoracolumbar L2-T10
Thoracolumbar L2-T10 - mean
All
[1] 6.97
Thoracolumbar L2-T10 - sd
All
[1] 20.37
```

```
6W. Thoracolumbar L2-T10
6W. Thoracolumbar L2-T10 - mean
All
[1] 6.72
6W. Thoracolumbar L2-T10 - sd
All
[1] 10.59
```

```
6M. Thoracolumbar L2-T10
6M. Thoracolumbar L2-T10 - mean
All
[1] 6.43
6M. Thoracolumbar L2-T10 - sd
All
[1] 9.13
```

```
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] 5.26
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
0.9260353
```

```
Preop vs 2y p-value
0.5379203
```

```
Preop vs 5y p-value
0.3719729
```

```
6w vs 2y p-value
0.4482013
```

```
2y vs 5y p-value
0.6789202
```

```
6w vs 5y p-value
0.28185
```

```
RSA
RSA - mean
All
[1] 22.61
RSA - sd
All
```

```

[1] 13.77

6W. RSA
6W. RSA - mean
All
[1] 7.75
6W. RSA - sd
All
[1] 8.01

6M. RSA
6M. RSA - mean
All
[1] 9.45
6M. RSA - sd
All
[1] 8.49

1Y. RSA
1Y. RSA - mean
All
[1] 11.1
1Y. RSA - sd
All
[1] 8.98

2Y. RSA
2Y. RSA - mean
All
[1] 12.31
2Y. RSA - sd
All
[1] 7.95

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

RSA tests
Preop vs 6w p-value
2.167031e-13

Preop vs 2y p-value
1.261418e-07

```

Preop vs 5y p-value
0.001543176

6w vs 2y p-value
0.001093646

2y vs 5y p-value
0.3156126

6w vs 5y p-value
0.002626864

RPV
RPV - mean
All
[1] -12.3
RPV - sd
All
[1] 7.31

6W. RPV
6W. RPV - mean
All
[1] -4.65
6W. RPV - sd
All
[1] 7.23

6M. RPV
6M. RPV - mean
All
[1] -6.96
6M. RPV - sd
All
[1] 6.02

1Y. RPV
1Y. RPV - mean
All
[1] -8.01
1Y. RPV - sd
All
[1] 6.66

2Y. RPV
2Y. RPV - mean
All
[1] -7.17
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
8.487303e-10
```

```
Preop vs 2y p-value
9.351627e-06
```

```
Preop vs 5y p-value
0.01654346
```

```
6w vs 2y p-value
0.02599994
```

```
2y vs 5y p-value
0.1396
```

```
6w vs 5y p-value
0.001214952
```

Quality of Life

```
ODI - Score (%)
ODI - Score (%) - mean
All
[1] 44.72
ODI - Score (%) - sd
All
[1] 17.21
```

```
6M. ODI - Score (%)
6M. ODI - Score (%) - mean
All
[1] 29.04
6M. ODI - Score (%) - sd
All
[1] 17.16
```

```
1Y. ODI - Score (%)
```

```
1Y. ODI - Score (%) - mean
All
[1] 28.15
1Y. ODI - Score (%) - sd
All
[1] 17.31
```

```
2Y. ODI - Score (%)
2Y. ODI - Score (%) - mean
All
[1] 30.07
2Y. ODI - Score (%) - sd
All
[1] 21.55
```

```
5Y. ODI - Score (%)
5Y. ODI - Score (%) - mean
All
[1] 34.19
5Y. ODI - Score (%) - sd
All
[1] 23.39
```

```
ODI - Score (%) tests
Preop vs 6m p-value
1.453102e-07
```

```
Preop vs 2y p-value
1.538079e-05
```

```
Preop vs 5y p-value
0.004974261
2y vs 5y p-value
0.3064219
```

```
6m vs 5y p-value
0.1637094
```

```
SRS22 - Function / Activity
SRS22 - Function / Activity - mean
All
[1] 2.78
SRS22 - Function / Activity - sd
All
[1] 0.69
```

```
6M. SRS22 - Function / Activity
6M. SRS22 - Function / Activity - mean
All
```

```

[1] 3.13
6M. SRS22 - Function / Activity - sd
All
[1] 0.71

1Y. SRS22 - Function / Activity
1Y. SRS22 - Function / Activity - mean
All
[1] 3.22
1Y. SRS22 - Function / Activity - sd
All
[1] 0.77

2Y. SRS22 - Function / Activity
2Y. SRS22 - Function / Activity - mean
All
[1] 3.34
2Y. SRS22 - Function / Activity - sd
All
[1] 0.85

5Y. SRS22 - Function / Activity
5Y. SRS22 - Function / Activity - mean
All
[1] 3.24
5Y. SRS22 - Function / Activity - sd
All
[1] 0.97

SRS22 - Function / Activity tests
Preop vs 6m p-value
0.002551992

Preop vs 2y p-value
2.104039e-05

Preop vs 5y p-value
0.002503694
2y vs 5y p-value
0.5257554

6m vs 5y p-value
0.464826

SRS22 - Pain
SRS22 - Pain - mean
All
[1] 2.33
SRS22 - Pain - sd

```

```
All
[1] 0.74
```

```
6M. SRS22 - Pain
6M. SRS22 - Pain - mean
All
[1] 3.5
6M. SRS22 - Pain - sd
All
[1] 0.89
```

```
1Y. SRS22 - Pain
1Y. SRS22 - Pain - mean
All
[1] 3.67
1Y. SRS22 - Pain - sd
All
[1] 0.94
```

```
2Y. SRS22 - Pain
2Y. SRS22 - Pain - mean
All
[1] 3.43
2Y. SRS22 - Pain - sd
All
[1] 1.16
```

```
5Y. SRS22 - Pain
5Y. SRS22 - Pain - mean
All
[1] 3.23
5Y. SRS22 - Pain - sd
All
[1] 1.16
```

```
SRS22 - Pain tests
Preop vs 6m p-value
8.847335e-15
```

```
Preop vs 2y p-value
5.055356e-10
```

```
Preop vs 5y p-value
1.357452e-06
2y vs 5y p-value
0.3319813
```

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

0.1451567

```
SRS22 - Self image / Appearance
SRS22 - Self image / Appearance - mean
All
[1] 2.06
SRS22 - Self image / Appearance - sd
All
[1] 0.65
```

```
6M. SRS22 - Self image / Appearance
6M. SRS22 - Self image / Appearance - mean
All
[1] 3.5
6M. SRS22 - Self image / Appearance - sd
All
[1] 0.79
```

```
1Y. SRS22 - Self image / Appearance
1Y. SRS22 - Self image / Appearance - mean
All
[1] 3.54
1Y. SRS22 - Self image / Appearance - sd
All
[1] 0.71
```

```
2Y. SRS22 - Self image / Appearance
2Y. SRS22 - Self image / Appearance - mean
All
[1] 3.41
2Y. SRS22 - Self image / Appearance - sd
All
[1] 0.87
```

```
5Y. SRS22 - Self image / Appearance
5Y. SRS22 - Self image / Appearance - mean
All
[1] 3.28
5Y. SRS22 - Self image / Appearance - sd
All
[1] 1.01
```

```
SRS22 - Self image / Appearance tests
Preop vs 6m p-value
1.548812e-23
```

```
Preop vs 2y p-value
3.564858e-19
```

Preop vs 5y p-value
2.188648e-12
2y vs 5y p-value
0.449701

6m vs 5y p-value
0.1740972

SRS22 - Mental health
SRS22 - Mental health - mean
All
[1] 2.97
SRS22 - Mental health - sd
All
[1] 0.9

6M. SRS22 - Mental health
6M. SRS22 - Mental health - mean
All
[1] 3.54
6M. SRS22 - Mental health - sd
All
[1] 0.87

1Y. SRS22 - Mental health
1Y. SRS22 - Mental health - mean
All
[1] 3.65
1Y. SRS22 - Mental health - sd
All
[1] 0.79

2Y. SRS22 - Mental health
2Y. SRS22 - Mental health - mean
All
[1] 3.5
2Y. SRS22 - Mental health - sd
All
[1] 0.94

5Y. SRS22 - Mental health
5Y. SRS22 - Mental health - mean
All
[1] 3.42
5Y. SRS22 - Mental health - sd
All
[1] 1.07

SRS22 - Mental health tests
Preop vs 6m p-value
0.0001476439

Preop vs 2y p-value
0.0007486448

Preop vs 5y p-value
0.01050373
2y vs 5y p-value
0.6823224

6m vs 5y p-value
0.5075833

SRS22 - SRS Subtotal score
SRS22 - SRS Subtotal score - mean
All
[1] 2.54
SRS22 - SRS Subtotal score - sd
All
[1] 0.55

6M. SRS22 - SRS Subtotal score
6M. SRS22 - SRS Subtotal score - mean
All
[1] 3.41
6M. SRS22 - SRS Subtotal score - sd
All
[1] 0.64

1Y. SRS22 - SRS Subtotal score
1Y. SRS22 - SRS Subtotal score - mean
All
[1] 3.53
1Y. SRS22 - SRS Subtotal score - sd
All
[1] 0.64

2Y. SRS22 - SRS Subtotal score
2Y. SRS22 - SRS Subtotal score - mean
All
[1] 3.42
2Y. SRS22 - SRS Subtotal score - sd
All
[1] 0.82

5Y. SRS22 - SRS Subtotal score
5Y. SRS22 - SRS Subtotal score - mean

```
All
[1] 3.29
5Y. SRS22 - SRS Subtotal score - sd
All
[1] 0.94
```

```
SRS22 - SRS Subtotal score tests
Preop vs 6m p-value
2.724014e-15
```

```
Preop vs 2y p-value
8.94817e-12
```

```
Preop vs 5y p-value
3.880301e-07
2y vs 5y p-value
0.4250599
```

```
6m vs 5y p-value
0.4054372
```

```
SF36 - PCS
SF36 - PCS - mean
All
[1] 33.54
SF36 - PCS - sd
All
[1] 7.36
```

```
6M. SF36 - PCS
6M. SF36 - PCS - mean
All
[1] 39.46
6M. SF36 - PCS - sd
All
[1] 8.69
```

```
1Y. SF36 - PCS
1Y. SF36 - PCS - mean
All
[1] 40.12
1Y. SF36 - PCS - sd
All
[1] 8.6
```

```
2Y. SF36 - PCS
2Y. SF36 - PCS - mean
All
[1] 40.62
```



```
2Y. SF36 - PCS - sd
All
[1] 9.47
```

```
5Y. SF36 - PCS
5Y. SF36 - PCS - mean
All
[1] 38.82
5Y. SF36 - PCS - sd
All
[1] 10.98
```

```
SF36 - PCS tests
Preop vs 6m p-value
2.059959e-05
```

```
Preop vs 2y p-value
1.932855e-06
```

```
Preop vs 5y p-value
0.00219123
2y vs 5y p-value
0.3295387
```

```
6m vs 5y p-value
0.7221152
```

```
SF36 - MCS
SF36 - MCS - mean
All
[1] 41.49
SF36 - MCS - sd
All
[1] 12.71
```

```
6M. SF36 - MCS
6M. SF36 - MCS - mean
All
[1] 47.05
6M. SF36 - MCS - sd
All
[1] 12.4
```

```
1Y. SF36 - MCS
1Y. SF36 - MCS - mean
All
[1] 47.29
1Y. SF36 - MCS - sd
All
```

[1] 11.39

2Y. SF36 - MCS
2Y. SF36 - MCS - mean
All
[1] 46.06
2Y. SF36 - MCS - sd
All
[1] 12.14

5Y. SF36 - MCS
5Y. SF36 - MCS - mean
All
[1] 44.59
5Y. SF36 - MCS - sd
All
[1] 13.14

SF36 - MCS tests
Preop vs 6m p-value
0.008596627

Preop vs 2y p-value
0.0291202

Preop vs 5y p-value
0.1752845
2y vs 5y p-value
0.5165029

6m vs 5y p-value
0.2805242

Surgery

Total Operative Blood Loss st1+st2+st3
Total Operative Blood Loss st1+st2+st3 - mean
All
[1] 1964.43
Total Operative Blood Loss st1+st2+st3 - sd
All
[1] 1463.17

Total surgical time st1+st2+st3
Total surgical time st1+st2+st3 - mean
All
[1] 314.22
Total surgical time st1+st2+st3 - sd

All
[1] 192.94

Number of Posterior Instrumented Levels
Number of Posterior Instrumented Levels - mean
All
[1] 10.68
Number of Posterior Instrumented Levels - sd
All
[1] 3.65

Pelvic fixation
Pelvic fixation - table
All
variable
Yes
79
Pelvic fixation - proportion
All
variable
Yes
1

Surgical Approach
Surgical Approach - table
All
variable

Anterior-Posterior	Posterior
1	70
Posterior-Anterior	Posterior-Posterior-Anterior
7	1

Surgical Approach - proportion
All
variable

Anterior-Posterior	Posterior
0.01265823	0.88607595
Posterior-Anterior	Posterior-Posterior-Anterior
0.08860759	0.01265823

Number of Interbody Fusions
Number of Interbody Fusions - mean
All
[1] 1.16
Number of Interbody Fusions - sd
All
[1] 1.26

Decompression
Decompression - table

All
variable
No Yes
59 20
Decompression - proportion
All
variable
No Yes
0.7468354 0.2531646

Interbody Fusion
Interbody Fusion - table
All
variable
No Yes
31 48
Interbody Fusion - proportion
All
variable
No Yes
0.3924051 0.6075949

Osteotomy
Osteotomy - table
All
variable
No Yes
34 45
Osteotomy - proportion
All
variable
No Yes
0.4303797 0.5696203

3CO
3CO - table
All
variable
No Yes
56 23
3CO - proportion
All
variable
No Yes
0.7088608 0.2911392

Complications before 2Y

Number of reinterventions: 24

Complication Impact N

1: Minor Complication 60
 2: Major Complication 37

	Category of the complication	N
1:	Mechanical complications	34
2:	Other complications	30
3:	Iatrogenic	13
4:	Peripheral neurologic complications	14
5:	Infectious complications	4
6:	Pain	2

Category of Complication for Major Complications

	Category of the complication	N
1:	Other complications	9
2:	Mechanical complications	18
3:	Infectious complications	4
4:	Iatrogenic	2
5:	Peripheral neurologic complications	2
6:	Pain	2

Number of patients in Complications before 2Y

Number of patients with reinterventions: 15

	Complication Impact patients_complications
1: Minor Complication	36
2: Major Complication	22

	Category of the complication	patients_complications
1:	Mechanical complications	24
2:	Other complications	18
3:	Iatrogenic	11
4:	Peripheral neurologic complications	13
5:	Infectious complications	4
6:	Pain	2

Category of Complication for Major Complications

	Category of the complication	patients_complications
1:	Other complications	7
2:	Mechanical complications	11
3:	Infectious complications	4
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: 37

	Complication	Impact	N
1:	Minor Complication		72
2:	Major Complication		50
3:	Adverse Event		1

	Category of the complication	N
1:	Mechanical complications	56
2:	Other complications	30

3:	Iatrogenic	14
4:	Pain	5
5:	Peripheral neurologic complications	14
6:	Infectious complications	4

Category of Complication for Major Complications

	Category of the complication	N
1:	Other complications	9
2:	Mechanical complications	28
3:	Infectious complications	4
4:	Iatrogenic	3
5:	Peripheral neurologic complications	2
6:	Pain	4

Number of patients in Complications before 5Y

Number of patients with reinterventions: 20

	Complication	Impact patients_complications
1:	Minor Complication	41
2:	Major Complication	26
3:	Adverse Event	1

	Category of the complication	patients_complications
1:	Mechanical complications	36
2:	Other complications	18
3:	Iatrogenic	12
4:	Pain	5
5:	Peripheral neurologic complications	13
6:	Infectious complications	4

Category of Complication for Major Complications

	Category of the complication	patients_complications
1:	Other complications	7
2:	Mechanical complications	14
3:	Infectious complications	4
4:	Iatrogenic	3
5:	Peripheral neurologic complications	2
6:	Pain	4