## Loss of alignment

```
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) before 6 months after surgery: 98
Demographics
Age
Age - mean
All
[1] 62.63265
Age - sd
All
[1] 10.01997
Gender
Gender - table
All
variable
Female Male
    84
          14
Gender - proportion
All
variable
   Female
0.8571429 0.1428571
Prior Spine Surgery
Prior Spine Surgery - table
variable
No Yes
58 40
Prior Spine Surgery - proportion
All
variable
       No
                 Yes
```

Initial Patients: 372

0.5918367 0.4081633

Height (cm)\_First Visit Height (cm)\_First Visit - mean All [1] 161.1753 Height (cm)\_First Visit - sd [1] 9.005797 Weight (kgs)\_First Visit Weight (kgs)\_First Visit - mean All [1] 66.08247 Weight (kgs)\_First Visit - sd [1] 12.22163 BMI\_First Visit BMI\_First Visit - mean All [1] 25.37825 BMI\_First Visit - sd All [1] 3.691012 ASA classification ASA classification - table All variable 1 2 3 18 69 11 ASA classification - proportion All variable 0.1836735 0.7040816 0.1122449

Tobacco use\_First Visit
Tobacco use\_First Visit - table

variable

variable

Current Ex Non-User 20 22 56

Tobacco use\_First Visit - proportion All

variable

Current Ex Non-User 0.2040816 0.2244898 0.5714286

ESSG Diagnosis

```
ESSG Diagnosis - table
All
variable
              Congenital
                                     Degenerative
                                                               Failed-back
              Idiopathic
                                    Neuromuscular Other: spondylolisthesis
          Post-traumatic
                                        Syndromic
ESSG Diagnosis - proportion
All
variable
              Congenital
                                     Degenerative
                                                               Failed-back
              0.03061224
                                       0.47959184
                                                                 0.09183673
              Idiopathic
                                    Neuromuscular Other: spondylolisthesis
                                       0.03061224
              0.31632653
                                                                 0.01020408
          Post-traumatic
                                        Syndromic
                                       0.01020408
              0.03061224
Radiology
Static Major curve Cobb angle
Static Major curve Cobb angle - mean
All
[1] 41.14804
Static Major curve Cobb angle - sd
All
[1] 22.01958
6W. Static Major curve Cobb angle
6W. Static Major curve Cobb angle - mean
All
[1] 22.46103
6W. Static Major curve Cobb angle - sd
All
[1] 15.81603
6M. Static Major curve Cobb angle
6M. Static Major curve Cobb angle - mean
All
[1] 21.58412
6M. Static Major curve Cobb angle - sd
All
[1] 17.16257
1Y. Static Major curve Cobb angle
1Y. Static Major curve Cobb angle - mean
All
[1] 19.70506
```

1Y. Static Major curve Cobb angle - sd

```
All
```

[1] 15.82992

2Y. Static Major curve Cobb angle

2Y. Static Major curve Cobb angle - mean

A11

[1] 18.3164

2Y. Static Major curve Cobb angle - sd

All

[1] 14.48838

5Y. Static Major curve Cobb angle

5Y. Static Major curve Cobb angle - mean

All

[1] 22.79204

5Y. Static Major curve Cobb angle - sd

All

[1] 15.84268

Static Major curve Cobb angle tests Preop vs 6w p-value 7.055818e-10

Preop vs 2y p-value 6.790356e-14

Preop vs 5y p-value 8.196997e-08

6w vs 2y p-value 0.07401691

2y vs 5y p-value 0.1070358

6w vs 5y p-value 0.907059

Coronal Balance (C7PL to CSVL) - mean All

[1] 29.70063

Coronal Balance (C7PL to CSVL) -  $\operatorname{sd}$ 

All

[1] 25.43232

6W. Coronal Balance (C7PL to CSVL)

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

All

[1] 20.808

```
6W. Coronal Balance (C7PL to CSVL) - sd
All
[1] 15.55918
6M. Coronal Balance (C7PL to CSVL)
6M. Coronal Balance (C7PL to CSVL) - mean
All
[1] 21.51627
6M. Coronal Balance (C7PL to CSVL) - sd
[1] 17.05537
1Y. Coronal Balance (C7PL to CSVL)
1Y. Coronal Balance (C7PL to CSVL) - mean
All
[1] 21.94195
1Y. Coronal Balance (C7PL to CSVL) - sd
[1] 16.94412
2Y. Coronal Balance (C7PL to CSVL)
2Y. Coronal Balance (C7PL to CSVL) - mean
[1] 22.1681
2Y. Coronal Balance (C7PL to CSVL) - sd
[1] 18.48451
5Y. Coronal Balance (C7PL to CSVL)
5Y. Coronal Balance (C7PL to CSVL) - mean
All
[1] 28.06021
5Y. Coronal Balance (C7PL to CSVL) - sd
All
[1] 21.12074
Coronal Balance (C7PL to CSVL) tests
Preop vs 6w p-value
0.004459069
Preop vs 2y p-value
0.02359945
```

Preop vs 5y p-value

6w vs 2y p-value

0.683468

0.6015384

5

2y vs 5y p-value 0.110569

6w vs 5y p-value 0.03955604

Sagittal Balance

Sagittal Balance - mean

All

[1] 77.66538

Sagittal Balance - sd

All

[1] 63.33729

- 6W. Sagittal Balance
- 6W. Sagittal Balance mean

All

- [1] 25.2333
- 6W. Sagittal Balance sd

All

- [1] 32.65841
- 6M. Sagittal Balance
- 6M. Sagittal Balance mean

All

- [1] 19.73134
- 6M. Sagittal Balance sd

All

- [1] 36.69053
- 1Y. Sagittal Balance
- 1Y. Sagittal Balance mean

All

- [1] 26.83361
- 1Y. Sagittal Balance sd

All

- [1] 44.58791
- 2Y. Sagittal Balance
- 2Y. Sagittal Balance mean

۸ ٦ ٦

- [1] 35.75598
- 2Y. Sagittal Balance sd

All

- [1] 41.64468
- 5Y. Sagittal Balance
- 5Y. Sagittal Balance mean

All

[1] 41.05918

5Y. Sagittal Balance - sd

**A11** 

[1] 51.98873

Sagittal Balance tests Preop vs 6w p-value 6.6573e-11

Preop vs 2y p-value 5.294967e-07

Preop vs 5y p-value 0.0003408509

6w vs 2y p-value 0.06838847

2y vs 5y p-value 0.5454224

6w vs 5y p-value 0.05707473

Sagittal T2-T5 Sagittal T2-T5 - mean All [1] 10.13783 Sagittal T2-T5 - sd All

[1] 8.674203

6W. Sagittal T2-T5

6W. Sagittal T2-T5 - mean

All

[1] 13.9567

6W. Sagittal T2-T5 - sd

All

[1] 8.755625

6M. Sagittal T2-T5

6M. Sagittal T2-T5 - mean

All

[1] 12.75733

6M. Sagittal T2-T5 - sd

All

[1] 7.876879

1Y. Sagittal T2-T5

1Y. Sagittal T2-T5 - mean

All

[1] 12.5406

1Y. Sagittal T2-T5 - sd

All

[1] 9.108455

2Y. Sagittal T2-T5

2Y. Sagittal T2-T5 - mean

All

[1] 12.72951

2Y. Sagittal T2-T5 - sd

All

[1] 9.080996

5Y. Sagittal T2-T5

5Y. Sagittal T2-T5 - mean

All

[1] 15.53755

5Y. Sagittal T2-T5 - sd

A11

[1] 10.45196

Sagittal T2-T5 tests Preop vs 6w p-value 0.00373668

Preop vs 2y p-value 0.05665321

Preop vs 5y p-value 0.002690377

6w vs 2y p-value 0.3716658

2y vs 5y p-value 0.1219793

6w vs 5y p-value 0.3718241

Sagittal T5-T12 Sagittal T5-T12 - mean All [1] 29.33642 Sagittal T5-T12 - sd All [1] 18.36859

6W. Sagittal T5-T12

- 6W. Sagittal T5-T12 mean
- All
- [1] 34.95936
- 6W. Sagittal T5-T12 sd
- A11
- [1] 14.21917
- 6M. Sagittal T5-T12
- 6M. Sagittal T5-T12 mean
- All
- [1] 37.45267
- 6M. Sagittal T5-T12 sd
- All
- [1] 13.9539
- 1Y. Sagittal T5-T12
- 1Y. Sagittal T5-T12 mean
- All
- [1] 37.41671
- 1Y. Sagittal T5-T12 sd
- All
- [1] 13.70754
- 2Y. Sagittal T5-T12
- 2Y. Sagittal T5-T12 mean
- All
- [1] 38.51843
- 2Y. Sagittal T5-T12 sd
- All
- [1] 14.69517
- 5Y. Sagittal T5-T12
- 5Y. Sagittal T5-T12 mean
- All
- [1] 42.23551
- 5Y. Sagittal T5-T12 sd
- All
- [1] 16.4497

Sagittal T5-T12 tests Preop vs 6w p-value 0.01963662

Preop vs 2y p-value 0.0002870564

Preop vs 5y p-value 4.052032e-05

6w vs 2y p-value 0.1044059

2y vs 5y p-value 0.1954515

6w vs 5y p-value 0.01020691

Sagittal T2-T12 Sagittal T2-T12 - mean All [1] 35.30292

Sagittal T2-T12 - sd

All

[1] 18.53653

6W. Sagittal T2-T12

6W. Sagittal T2-T12 - mean

All

[1] 44.47548

6W. Sagittal T2-T12 - sd

All

[1] 14.25467

6M. Sagittal T2-T12

6M. Sagittal T2-T12 - mean

All

[1] 47.69419

6M. Sagittal T2-T12 - sd

All

[1] 14.51608

1Y. Sagittal T2-T12

1Y. Sagittal T2-T12 - mean

All

[1] 46.4412

1Y. Sagittal T2-T12 - sd

All

[1] 14.45611

2Y. Sagittal T2-T12

2Y. Sagittal T2-T12 - mean

All

[1] 46.63095

2Y. Sagittal T2-T12 - sd

All

[1] 15.954

```
5Y. Sagittal T2-T12
```

5Y. Sagittal T2-T12 - mean

All

[1] 51.48612

5Y. Sagittal T2-T12 - sd

All

[1] 16.95076

Sagittal T2-T12 tests Preop vs 6w p-value 0.0001838279

Preop vs 2y p-value 1.812798e-05

Preop vs 5y p-value 7.470177e-07

6w vs 2y p-value 0.346595

2y vs 5y p-value 0.1068125

6w vs 5y p-value 0.0154817

Lordosis (top of L1-S1)
Lordosis (top of L1-S1) - mean
All
[1] -32.79278
Lordosis (top of L1-S1) - sd

All [1] 17.57734

6W. Lordosis (top of L1-S1)

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

All

[1] -52.24362

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

All

[1] 13.09043

6M. Lordosis (top of L1-S1)

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

All

[1] -51.46227

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

All

[1] 12.97327

```
1Y. Lordosis (top of L1-S1)
1Y. Lordosis (top of L1-S1) - mean
All
[1] -49.39407
1Y. Lordosis (top of L1-S1) - sd
[1] 12.37036
2Y. Lordosis (top of L1-S1)
2Y. Lordosis (top of L1-S1) - mean
All
[1] -49.55535
2Y. Lordosis (top of L1-S1) - sd
All
[1] 13.36741
5Y. Lordosis (top of L1-S1)
5Y. Lordosis (top of L1-S1) - mean
[1] -49.5928
5Y. Lordosis (top of L1-S1) - sd
All
[1] 13.1366
Lordosis (top of L1-S1) tests
Preop vs 6w p-value
2.334469e-15
Preop vs 2y p-value
9.010626e-12
Preop vs 5y p-value
1.516803e-09
6w vs 2y p-value
0.1752145
2y vs 5y p-value
0.9873231
6w vs 5y p-value
0.2511614
Pelvic Incidence
Pelvic Incidence - mean
[1] 56.04546
Pelvic Incidence - sd
All
```

[1] 13.04045

- 6W. Pelvic Incidence
- 6W. Pelvic Incidence mean
- All
- [1] 56.09247
- 6W. Pelvic Incidence sd
- All
- [1] 12.61719
- 6M. Pelvic Incidence
- 6M. Pelvic Incidence mean
- All
- [1] 55.93943
- 6M. Pelvic Incidence sd
- All
- [1] 12.95054
- 1Y. Pelvic Incidence
- 1Y. Pelvic Incidence mean
- All
- [1] 55.31802
- 1Y. Pelvic Incidence sd
- ΔΊΊ
- [1] 12.12408
- 2Y. Pelvic Incidence
- 2Y. Pelvic Incidence mean
- All
- [1] 55.25103
- 2Y. Pelvic Incidence sd
- All
- [1] 12.61072
- 5Y. Pelvic Incidence
- 5Y. Pelvic Incidence mean
- All
- [1] 55.4412
- 5Y. Pelvic Incidence sd
- All
- [1] 12.60897

Pelvic Incidence tests Preop vs 6w p-value 0.9798788

Preop vs 2y p-value 0.6751247

Preop vs 5y p-value 0.7861191

6w vs 2y p-value 0.6552487

2y vs 5y p-value 0.9324438

6w vs 5y p-value 0.7690054

Pelvic Tilt
Pelvic Tilt - mean
All
[1] 27.30124
Pelvic Tilt - sd
All

6W. Pelvic Tilt

6W. Pelvic Tilt - mean

All

[1] 19.69914

[1] 9.777705

6W. Pelvic Tilt - sd

All

[1] 8.855268

6M. Pelvic Tilt

6M. Pelvic Tilt - mean

All

[1] 22.14102

6M. Pelvic Tilt - sd

All

[1] 8.534646

1Y. Pelvic Tilt

1Y. Pelvic Tilt - mean

All

[1] 22.97593

1Y. Pelvic Tilt - sd

A11

[1] 9.283452

2Y. Pelvic Tilt

2Y. Pelvic Tilt - mean

All

[1] 22.4257

2Y. Pelvic Tilt - sd

All

### [1] 8.004201

5Y. Pelvic Tilt

5Y. Pelvic Tilt - mean

All

[1] 23.783

5Y. Pelvic Tilt - sd

All

[1] 8.923465

Pelvic Tilt tests Preop vs 6w p-value 6.781586e-08

Preop vs 2y p-value 0.0002799196

Preop vs 5y p-value 0.03060204

6w vs 2y p-value 0.03183929

2y vs 5y p-value 0.3769397

6w vs 5y p-value 0.01025876

Sacral Slope - mean All [1] 28.71309 Sacral Slope - sd

All

[1] 11.01433

6W. Sacral Slope

6W. Sacral Slope - mean

All

[1] 36.4686

6W. Sacral Slope - sd

All

[1] 10.66256

6M. Sacral Slope

6M. Sacral Slope - mean

All

[1] 33.77557

6M. Sacral Slope - sd

- All
- [1] 10.51717
- 1Y. Sacral Slope
- 1Y. Sacral Slope mean
- All
- [1] 32.30733
- 1Y. Sacral Slope sd
- All
- [1] 9.336442
- 2Y. Sacral Slope
- 2Y. Sacral Slope mean
- All
- [1] 33.14057
- 2Y. Sacral Slope sd
- All
- [1] 10.16704
- 5Y. Sacral Slope
- 5Y. Sacral Slope mean
- All
- [1] 31.6574
- 5Y. Sacral Slope sd
- All
- [1] 9.094866

Sacral Slope tests Preop vs 6w p-value 1.787634e-06

Preop vs 2y p-value 0.005099966

Preop vs 5y p-value 0.08672339

6w vs 2y p-value 0.03343144

2y vs 5y p-value 0.3808987

6w vs 5y p-value 0.005391491

RLL

RLL - mean

All

[1] -30.95557

RLL - sd

All

[1] 16.53437

6W. RLL

6W. RLL - mean

All

[1] -11.4986

6W. RLL - sd

All

[1] 11.33264

6M. RLL

6M. RLL - mean

All

[1] -12.22023

6M. RLL - sd

All

[1] 10.89265

1Y. RLL

1Y. RLL - mean

All

[1] -13.90314

1Y. RLL - sd

All

[1] 10.95304

2Y. RLL

2Y. RLL - mean

All

[1] -13.57942

2Y. RLL - sd

All

[1] 11.20021

5Y. RLL

5Y. RLL - mean

All

[1] -13.7816

5Y. RLL - sd

All

[1] 12.00952

RLL tests

Preop vs 6w p-value

1.986774e-17

Preop vs 2y p-value 1.693461e-14

Preop vs 5y p-value 4.662292e-11

6w vs 2y p-value 0.2185409

2y vs 5y p-value 0.9229158

6w vs 5y p-value 0.2717637

Global Tilt
Global Tilt - mean
All
[1] 36.31742
Global Tilt - sd
All

[1] 16.26602

6W. Global Tilt

6W. Global Tilt - mean

All

[1] 20.83511

6W. Global Tilt - sd

All

[1] 10.6085

6M. Global Tilt

6M. Global Tilt - mean

All

[1] 22.64264

6M. Global Tilt - sd

All

[1] 11.46156

1Y. Global Tilt

1Y. Global Tilt - mean

All

[1] 24.42321

1Y. Global Tilt - sd

All

[1] 12.23415

2Y. Global Tilt

2Y. Global Tilt - mean

All

```
[1] 25.68341
```

2Y. Global Tilt - sd

All

[1] 11.28989

5Y. Global Tilt

5Y. Global Tilt - mean

All

[1] 27.7442

5Y. Global Tilt - sd

All

[1] 14.50862

Global Tilt tests Preop vs 6w p-value 8.025851e-13

Preop vs 2y p-value 7.489525e-07

Preop vs 5y p-value 0.001509204

6w vs 2y p-value 0.004303071

2y vs 5y p-value 0.3931269

6w vs 5y p-value 0.00410414

T1 Sagittal Tilt - mean All

[1] 0.6241324

T1 Sagittal Tilt - sd

All

[1] 6.934216

6W. T1 Sagittal Tilt

6W. T1 Sagittal Tilt - mean

All

[1] -3.767206

6W. T1 Sagittal Tilt - sd

All

[1] 3.563869

6M. T1 Sagittal Tilt

6M. T1 Sagittal Tilt - mean

All

[1] -4.380591

6M. T1 Sagittal Tilt - sd

All

[1] 3.923536

1Y. T1 Sagittal Tilt

1Y. T1 Sagittal Tilt - mean

All

[1] -4.276342

1Y. T1 Sagittal Tilt - sd

All

[1] 4.733942

2Y. T1 Sagittal Tilt

2Y. T1 Sagittal Tilt - mean

All

[1] -3.408427

2Y. T1 Sagittal Tilt - sd

A11

[1] 4.04017

5Y. T1 Sagittal Tilt

5Y. T1 Sagittal Tilt - mean

All

[1] -2.099361

5Y. T1 Sagittal Tilt - sd

All

[1] 6.329189

T1 Sagittal Tilt tests Preop vs 6w p-value 8.769214e-07

Preop vs 2y p-value 1.029692e-05

Preop vs 5y p-value 0.02164948

6w vs 2y p-value 0.5530282

2y vs 5y p-value 0.19682

6w vs 5y p-value 0.09260539

Thoracolumbar L2-T10

```
Thoracolumbar L2-T10 - mean
All
[1] 8.57914
Thoracolumbar L2-T10 - sd
[1] 19.57937
6W. Thoracolumbar L2-T10
6W. Thoracolumbar L2-T10 - mean
All
[1] 7.559775
6W. Thoracolumbar L2-T10 - sd
All
[1] 10.19014
6M. Thoracolumbar L2-T10
6M. Thoracolumbar L2-T10 - mean
All
[1] 7.179877
6M. Thoracolumbar L2-T10 - sd
All
[1] 9.08839
1Y. Thoracolumbar L2-T10
1Y. Thoracolumbar L2-T10 - mean
All
[1] 6.28561
1Y. Thoracolumbar L2-T10 - sd
All
[1] 10.13311
2Y. Thoracolumbar L2-T10
2Y. Thoracolumbar L2-T10 - mean
All
[1] 6.735765
2Y. Thoracolumbar L2-T10 - sd
[1] 11.70807
5Y. Thoracolumbar L2-T10
5Y. Thoracolumbar L2-T10 - mean
All
[1] 6.174286
5Y. Thoracolumbar L2-T10 - sd
All
[1] 12.41592
```

Thoracolumbar L2-T10 tests

Preop vs 6w p-value 0.6582684

Preop vs 2y p-value 0.4426319

Preop vs 5y p-value 0.3739631

6w vs 2y p-value 0.6217745

2y vs 5y p-value 0.7974329

6w vs 5y p-value 0.5065043

RSA

RSA - mean

All

[1] 24.41577

RSA - sd

All

[1] 14.15088

6W. RSA

6W. RSA - mean

All

[1] 8.818778

6W. RSA - sd

All

[1] 8.224981

6M. RSA

6M. RSA - mean

All

[1] 10.78644

6M. RSA - sd

All

[1] 8.981948

1Y. RSA

1Y. RSA - mean

All

[1] 12.8325

1Y. RSA - sd

All

[1] 9.478109

- 2Y. RSA
- 2Y. RSA mean
- All
- [1] 14.12
- 2Y. RSA sd
- All
- [1] 9.040701
- 5Y. RSA
- 5Y. RSA mean
- All
- [1] 16.1316
- 5Y. RSA sd
- All
- [1] 11.48116

### RSA tests

Preop vs 6w p-value

1.23255e-16

Preop vs 2y p-value

2.157258e-08

Preop vs 5y p-value

0.0002131745

6w vs 2y p-value

9.22873e-05

2y vs 5y p-value

0.2942261

6w vs 5y p-value

0.000157966

RPV

RPV - mean

All

[1] -13.3534

RPV - sd

All

[1] 8.05655

6W. RPV

6W. RPV - mean

All

[1] -5.625699

6W. RPV - sd

All

[1] 7.466348

6M. RPV

6M. RPV - mean

All

[1] -8.228636

6M. RPV - sd

All

[1] 6.912491

1Y. RPV

1Y. RPV - mean

All

[1] -9.330465

1Y. RPV - sd

All

[1] 7.150767

2Y. RPV

2Y. RPV - mean

All

[1] -8.457816

2Y. RPV - sd

All

[1] 6.706173

5Y. RPV

5Y. RPV - mean

All

[1] -10.052

5Y. RPV - sd

All

[1] 6.514459

RPV tests

Preop vs 6w p-value

9.62669e-11

Preop vs 2y p-value

1.237875e-05

Preop vs 5y p-value

0.008414954

6w vs 2y p-value

0.008043576

2y vs 5y p-value

0.1754449

6w vs 5y p-value

#### 0.0003616853

### Quality of Life

```
ODI - Score (%)
ODI - Score (%) - mean
All
[1] 44.56522
ODI - Score (%) - sd
All
[1] 18.04165
6M. ODI - Score (%)
6M. ODI - Score (%) - mean
[1] 31.98889
6M. ODI - Score (%) - sd
All
[1] 19.21229
1Y. ODI - Score (%)
1Y. ODI - Score (%) - mean
All
[1] 30.44944
1Y. ODI - Score (%) - sd
All
[1] 18.07623
2Y. ODI - Score (%)
2Y. ODI - Score (%) - mean
All
[1] 32.13483
2Y. ODI - Score (%) - sd
All
[1] 22.46168
5Y. ODI - Score (%)
5Y. ODI - Score (%) - mean
All
[1] 36.36364
5Y. ODI - Score (%) - sd
All
[1] 24.4373
ODI - Score (%) tests
Preop vs 6m p-value
9.873532e-06
```

# Preop vs 2y p-value 6.497438e-05 Preop vs 5y p-value 0.01594088 2y vs 5y p-value

6w vs 5y p-value 4.516536e-25

0.2501981

```
SRS22 - Function / Activity
SRS22 - Function / Activity - mean
All
[1] 2.760632
SRS22 - Function / Activity - sd
All
```

[1] 0.7209226

```
6M. SRS22 - Function / Activity
6M. SRS22 - Function / Activity - mean
All
[1] 3.082222
6M. SRS22 - Function / Activity - sd
All
[1] 0.7064833
```

- 1Y. SRS22 Function / Activity
  1Y. SRS22 Function / Activity mean
  All
  [1] 3.112308
  1Y. SRS22 Function / Activity sd
  All
  [1] 0.7948348
- 2Y. SRS22 Function / Activity
  2Y. SRS22 Function / Activity mean
  All
  [1] 3.24809
  2Y. SRS22 Function / Activity sd
  All
  [1] 0.8921283
- 5Y. SRS22 Function / Activity
  5Y. SRS22 Function / Activity mean
  All
  [1] 3.196795
  5Y. SRS22 Function / Activity sd
  All

### [1] 0.9413771

SRS22 - Function / Activity tests Preop vs 6m p-value 0.00251496

Preop vs 2y p-value 7.479396e-05

Preop vs 5y p-value 0.0009949779 2y vs 5y p-value 0.7193349

6w vs 5y p-value 2.816459e-19

SRS22 - Pain

SRS22 - Pain - mean

A11

[1] 2.347895

SRS22 - Pain - sd

All

[1] 0.8271804

6M. SRS22 - Pain

6M. SRS22 - Pain - mean

All

[1] 3.386111

6M. SRS22 - Pain - sd

All

[1] 0.9098718

1Y. SRS22 - Pain

1Y. SRS22 - Pain - mean

All

[1] 3.50978

1Y. SRS22 - Pain - sd

All

[1] 1.032239

2Y. SRS22 - Pain

2Y. SRS22 - Pain - mean

All

[1] 3.401685

2Y. SRS22 - Pain - sd

All

[1] 1.176292

```
5Y. SRS22 - Pain
5Y. SRS22 - Pain - mean
All
[1] 3.151282
5Y. SRS22 - Pain - sd
All
[1] 1.20127
SRS22 - Pain tests
Preop vs 6m p-value
7.907843e-14
Preop vs 2y p-value
7.559873e-11
Preop vs 5y p-value
1.701709e-06
2y vs 5y p-value
0.1766603
6w vs 5y p-value
3.825002e-19
SRS22 - Self image / Appearance
SRS22 - Self image / Appearance - mean
All
[1] 2.030842
SRS22 - Self image / Appearance - sd
All
[1] 0.6503561
6M. SRS22 - Self image / Appearance
6M. SRS22 - Self image / Appearance - mean
All
[1] 3.417222
6M. SRS22 - Self image / Appearance - sd
[1] 0.8457149
1Y. SRS22 - Self image / Appearance
1Y. SRS22 - Self image / Appearance - mean
All
[1] 3.410989
1Y. SRS22 - Self image / Appearance - sd
[1] 0.80734
```

2Y. SRS22 - Self image / Appearance

```
2Y. SRS22 - Self image / Appearance - mean
All
[1] 3.351124
2Y. SRS22 - Self image / Appearance - sd
[1] 0.9580691
5Y. SRS22 - Self image / Appearance
5Y. SRS22 - Self image / Appearance - mean
All
[1] 3.133974
5Y. SRS22 - Self image / Appearance - sd
All
[1] 1.047151
SRS22 - Self image / Appearance tests
Preop vs 6m p-value
1.363002e-25
Preop vs 2y p-value
9.298444e-21
Preop vs 5y p-value
4.321582e-13
2y vs 5y p-value
0.1661988
6w vs 5y p-value
4.197957e-19
SRS22 - Mental health
SRS22 - Mental health - mean
All
[1] 2.947895
SRS22 - Mental health - sd
All
[1] 0.9008541
6M. SRS22 - Mental health
6M. SRS22 - Mental health - mean
[1] 3.504222
6M. SRS22 - Mental health - sd
All
[1] 0.8627744
1Y. SRS22 - Mental health
1Y. SRS22 - Mental health - mean
All
```

```
[1] 3.537912
```

1Y. SRS22 - Mental health - sd

 $\Gamma \Gamma \Lambda$ 

[1] 0.8651378

2Y. SRS22 - Mental health

2Y. SRS22 - Mental health - mean

All

[1] 3.42191

2Y. SRS22 - Mental health - sd

All

[1] 1.01287

5Y. SRS22 - Mental health

5Y. SRS22 - Mental health - mean

All

[1] 3.310897

5Y. SRS22 - Mental health - sd

All

[1] 1.048333

SRS22 - Mental health tests Preop vs 6m p-value 2.884734e-05

Preop vs 2y p-value 0.001002112

Preop vs 5y p-value 0.01700967 2y vs 5y p-value 0.4889347

6w vs 5y p-value 1.389462e-19

SRS22 - SRS Subtotal score

SRS22 - SRS Subtotal score - mean

All

[1] 2.524947

SRS22 - SRS Subtotal score - sd

All

[1] 0.5895939

6M. SRS22 - SRS Subtotal score

6M. SRS22 - SRS Subtotal score - mean

All

[1] 3.346889

6M. SRS22 - SRS Subtotal score - sd

```
All
```

[1] 0.6691982

- 1Y. SRS22 SRS Subtotal score
- 1Y. SRS22 SRS Subtotal score mean

All

- [1] 3.404396
- 1Y. SRS22 SRS Subtotal score sd

All

- [1] 0.7252237
- 2Y. SRS22 SRS Subtotal score
- 2Y. SRS22 SRS Subtotal score mean

All

- [1] 3.355169
- 2Y. SRS22 SRS Subtotal score sd

All

- [1] 0.8785527
- 5Y. SRS22 SRS Subtotal score
- 5Y. SRS22 SRS Subtotal score mean

All

- [1] 3.2
- 5Y. SRS22 SRS Subtotal score sd

All

[1] 0.9328535

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

9.040721e-16

Preop vs 2y p-value

5.587867e-12

Preop vs 5y p-value

1.666516e-07

2y vs 5y p-value

0.2721586

6w vs 5y p-value

2.75968e-19

SF36 - PCS

SF36 - PCS - mean

All

[1] 33.27312

SF36 - PCS - sd

All

[1] 7.785528

```
6M. SF36 - PCS
```

6M. SF36 - PCS - mean

A11

[1] 38.50701

6M. SF36 - PCS - sd

All

[1] 8.953122

1Y. SF36 - PCS

1Y. SF36 - PCS - mean

All

[1] 39.06888

1Y. SF36 - PCS - sd

All

[1] 8.984458

2Y. SF36 - PCS

2Y. SF36 - PCS - mean

All

[1] 40.15727

2Y. SF36 - PCS - sd

All

[1] 10.29273

5Y. SF36 - PCS

5Y. SF36 - PCS - mean

All

[1] 37.72286

5Y. SF36 - PCS - sd

All

[1] 11.45773

SF36 - PCS tests Preop vs 6m p-value 4.778989e-05

Preop vs 2y p-value 1.160478e-06

Preop vs 5y p-value 0.004403834 2y vs 5y p-value 0.1554949

6w vs 5y p-value 7.288201e-57

SF36 - MCS

SF36 - MCS - mean

All

[1] 41.22871

SF36 - MCS - sd

All

[1] 12.29288

6M. SF36 - MCS

6M. SF36 - MCS - mean

All

[1] 46.52713

6M. SF36 - MCS - sd

All

[1] 12.0857

1Y. SF36 - MCS

1Y. SF36 - MCS - mean

All

[1] 46.17303

1Y. SF36 - MCS - sd

All

[1] 12.18157

2Y. SF36 - MCS

2Y. SF36 - MCS - mean

All

[1] 45.67591

2Y. SF36 - MCS - sd

All

[1] 12.28804

5Y. SF36 - MCS

5Y. SF36 - MCS - mean

All

[1] 44.45545

5Y. SF36 - MCS - sd

All

[1] 12.59954

SF36 - MCS tests Preop vs 6m p-value 0.004015133

Preop vs 2y p-value 0.01595555

Preop vs 5y p-value

```
0.09479246
2y vs 5y p-value
0.5309449
6w vs 5y p-value
3.349875e-58
Surgery
Total Operative Blood Loss st1+st2+st3
Total Operative Blood Loss st1+st2+st3 - mean
All
[1] 1955.143
Total Operative Blood Loss st1+st2+st3 - sd
All
[1] 1431.513
Total surgical time st1+st2+st3
Total surgical time st1+st2+st3 - mean
All
[1] 316.4898
Total surgical time st1+st2+st3 - sd
[1] 181.7305
Number of Posterior Instrumented Levels
Number of Posterior Instrumented Levels - mean
All
[1] 10.8125
Number of Posterior Instrumented Levels - sd
A11
[1] 3.858859
Pelvic fixation
Pelvic fixation - table
All
variable
Yes
98
Pelvic fixation - proportion
variable
Yes
  1
Surgical Approach
Surgical Approach - table
```

variable

```
Anterior-Posterior
                                                Posterior
          Posterior-Anterior Posterior-Posterior-Anterior
Surgical Approach - proportion
All
variable
          Anterior-Posterior
                                                Posterior
                  0.01020408
                                               0.89795918
          Posterior-Anterior Posterior-Posterior-Anterior
                  0.08163265
                                               0.01020408
Number of Interbody Fusions
Number of Interbody Fusions - mean
All
[1] 1.153061
Number of Interbody Fusions - sd
All
[1] 1.229802
Decompression
Decompression - table
All
variable
No Yes
Decompression - proportion
All
variable
     No
              Yes
0.744898 0.255102
Interbody Fusion
Interbody Fusion - table
All
variable
No Yes
38 60
Interbody Fusion - proportion
variable
       No
                Yes
0.3877551 0.6122449
Osteotomy
Osteotomy - table
All
variable
No Yes
```

38 60

Osteotomy - proportion All variable Yes No 0.3877551 0.6122449 3C0 3CO - table All variable No Yes 72 26 3CO - proportion All variable No Yes 0.7346939 0.2653061

### Complications

Number of reinterventions: 77

Complication Impact N
1: Minor Complication 110
2: Major Complication 93
3: Adverse Event 2

Category of the complication N
1: Mechanical complications 108
2: Other complications 38
3: Iatrogenic 18
4: Pain 8
5: Peripheral neurologic complications 22
6: Infectious complications 11

### Number of patients in Complications

Number of patients with reinterventions: 32

Complication Impact patients\_complications
1: Minor Complication 57
2: Major Complication 39
3: Adverse Event 1

Category of the complication patients\_complications Mechanical complications 1: Other complications 2: 23 Iatrogenic 3: 15 Pain 4: 8 5: Peripheral neurologic complications 18 Infectious complications 8 6: