

LIV L4/L5

Initial Patients: 372

With Posterior Instrumented Fusion: 348

```
      type    N
1: <NA> 267
2:   L5   39
3:   L4   42
```

Patients who end up instrumented until pelvis

```
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    9
2: <NA> 13
3:   L4    1
```

Demographics

```
Age - mean
All
[1] 52.37931
L4
[1] 45.78571
L5
[1] 54.02564
```

```
L4 vs L5 p-value: [1] 0.02396962
```

```
Age - sd
All
[1] 19.24886
L4
```

```
[1] 15.97183
L5
[1] 16.2067
```

Gender - table

```
All
variable
Female  Male
    274    74
```

```
L4
variable
Female  Male
    33     9
```

```
L5
variable
Female  Male
    32     7
```

Gender - proportion

```
All
variable
      Female      Male
0.7873563 0.2126437
```

```
L4
variable
      Female      Male
0.7857143 0.2142857
```

```
L5
variable
      Female      Male
0.8205128 0.1794872
```

Prior Spine Surgery - table

```
All
variable
No Yes
244 104
```

```
L4
variable
No Yes
 36   6
```

```
L5
variable
No Yes
 28  11
```

Prior Spine Surgery - proportion

```
All
variable
      No      Yes
```

0.7011494 0.2988506

L4

variable

No	Yes
----	-----

0.8571429 0.1428571

L5

variable

No	Yes
----	-----

0.7179487 0.2820513

Height (cm)_First Visit - mean

All

[1] 163.0086

L4

[1] 164.881

L5

[1] 161.4359

L4 vs L5 p-value:[1] 0.09689435

Height (cm)_First Visit - sd

All

[1] 9.301155

L4

[1] 8.726753

L5

[1] 9.651274

Weight (kgs)_First Visit - mean

All

[1] 65.83141

L4

[1] 65.7619

L5

[1] 65.82051

L4 vs L5 p-value:[1] 0.9838195

Weight (kgs)_First Visit - sd

All

[1] 13.15332

L4

[1] 11.92622

L5

[1] 13.83716

BMI_First Visit - mean

All

[1] 24.78965

L4

[1] 24.2581

L5

[1] 25.30333

L4 vs L5 p-value:[1] 0.3199424

BMI_First Visit - sd

All

[1] 4.62612

L4

[1] 4.368086

L5

[1] 4.979352

ASA classification - table

All

variable

1 2 3

106 191 51

L4

variable

1 2 3

17 22 3

L5

variable

1 2 3

9 26 4

ASA classification - proportion

All

variable

1 2 3
0.3045977 0.5488506 0.1465517

L4

variable

1 2 3
0.40476190 0.52380952 0.07142857

L5

variable

1 2 3
0.2307692 0.6666667 0.1025641

Tobacco use_First Visit - table

All

variable

Current	Ex	Non-User
69	63	216

L4

variable

Current	Ex	Non-User
8	9	25

L5

variable

Current	Ex	Non-User
8	6	25

Tobacco use_First Visit - proportion

All

variable

Current	Ex	Non-User
0.1982759	0.1810345	0.6206897

L4

variable

Current	Ex	Non-User
0.1904762	0.2142857	0.5952381

L5

variable

Current	Ex	Non-User
0.2051282	0.1538462	0.6410256

ESSG Diagnosis - table

All

variable

	Congenital	Degenerative
	9	122
	Failed-back	Idiopathic
	19	156
	Neuromuscular	Other: Ankylosing spondylitis
	5	1
	Other: radiotherapy induced	Other: spondylolisthesis
	1	1
	Post-traumatic	Scheuermann
	15	15
	Syndromic	
	4	

L4

variable

Degenerative	Failed-back	Idiopathic	Post-traumatic	Syndromic
5	1	31	4	1

L5

variable

Congenital	Degenerative	Failed-back	Idiopathic	Post-traumatic
2	12	4	18	1
Scheuermann	Syndromic			
1	1			

ESSG Diagnosis - proportion

All
variable

	Congenital	Degenerative
	0.025862069	0.350574713
	Failed-back	Idiopathic
	0.054597701	0.448275862
	Neuromuscular	Other: Ankylosing spondylitis
	0.014367816	0.002873563
Other: radiotherapy induced		Other: spondylolisthesis
	0.002873563	0.002873563
Post-traumatic		Scheuermann
	0.043103448	0.043103448
Syndromic		
	0.011494253	

L4

variable

Degenerative	Failed-back	Idiopathic	Post-traumatic	Syndromic
0.11904762	0.02380952	0.73809524	0.09523810	0.02380952

L5

variable

Congenital	Degenerative	Failed-back	Idiopathic	Post-traumatic
0.05128205	0.30769231	0.10256410	0.46153846	0.02564103
Scheuermann	Syndromic			
0.02564103	0.02564103			

Radiology

Static Major curve Cobb angle - mean

All

[1] 42.86126

L4

[1] 50.21667

L5

[1] 45.54816

L4 vs L5 p-value:[1] 0.3827009

Static Major curve Cobb angle - sd

All

[1] 21.16524

L4

[1] 21.98985

L5

[1] 24.55119

6W. Static Major curve Cobb angle - mean

All

[1] 22.28508

L4

[1] 25.11917

L5
[1] 25.28838

L4 vs L5 p-value:[1] 0.9662744

6W. Static Major curve Cobb angle - sd
All
[1] 15.03951
L4
[1] 15.7548
L5
[1] 18.25572

6M. Static Major curve Cobb angle - mean
All
[1] 22.11803
L4
[1] 25.03243
L5
[1] 26.73529

L4 vs L5 p-value:[1] 0.6799513

6M. Static Major curve Cobb angle - sd
All
[1] 15.82402
L4
[1] 15.70284
L5
[1] 18.64226

1Y. Static Major curve Cobb angle - mean
All
[1] 20.3063
L4
[1] 23.3535
L5
[1] 24.50108

L4 vs L5 p-value:[1] 0.7742008

1Y. Static Major curve Cobb angle - sd
All
[1] 15.65562
L4
[1] 16.69628
L5

[1] 18.16084

2Y. Static Major curve Cobb angle - mean

All

[1] 21.62893

L4

[1] 24.79656

L5

[1] 26.43484

L4 vs L5 p-value:[1] 0.7054688

2Y. Static Major curve Cobb angle - sd

All

[1] 15.67408

L4

[1] 14.12019

L5

[1] 19.57633

5Y. Static Major curve Cobb angle - mean

All

[1] 24.83891

L4

[1] 31.1735

L5

[1] 31.11636

L4 vs L5 p-value:[1] 0.9920431

5Y. Static Major curve Cobb angle - sd

All

[1] 16.535

L4

[1] 15.81463

L5

[1] 20.92306

Static Major curve Cobb angle tests all

Preop vs 6w p-value

2.612939e-39

Preop vs 2y p-value

5.814775e-39

Preop vs 5y p-value

3.548346e-20

6w vs 2y p-value
0.6091221

2y vs 5y p-value
0.05985225

6w vs 5y p-value
0.122996

Static Major curve Cobb angle tests L4
Preop vs 6w p-value
2.586475e-07

Preop vs 2y p-value
1.466771e-07

Preop vs 5y p-value
0.0003711541

6w vs 2y p-value
0.9293153

2y vs 5y p-value
0.1491365

6w vs 5y p-value
0.1770632

Static Major curve Cobb angle tests L5
Preop vs 6w p-value
0.0001275796

Preop vs 2y p-value
0.0006094734

Preop vs 5y p-value
0.0195258

6w vs 2y p-value
0.8049483

2y vs 5y p-value
0.4143113

6w vs 5y p-value
0.2849302

Coronal Balance (C7PL to CSVL) - mean
All
[1] 22.93623
L4
[1] 19.0495

L5
[1] 19.71324

L4 vs L5 p-value:[1] 0.8284834

Coronal Balance (C7PL to CSVL) - sd
All
[1] 19.6459
L4
[1] 11.78102
L5
[1] 14.09169

6W. Coronal Balance (C7PL to CSVL) - mean
All
[1] 20.30517
L4
[1] 23.20235
L5
[1] 22.5775

L4 vs L5 p-value:[1] 0.8802018

6W. Coronal Balance (C7PL to CSVL) - sd
All
[1] 15.15984
L4
[1] 15.6518
L5
[1] 17.7469

6M. Coronal Balance (C7PL to CSVL) - mean
All
[1] 18.82025
L4
[1] 14.84273
L5
[1] 21.69464

L4 vs L5 p-value:[1] 0.07179218

6M. Coronal Balance (C7PL to CSVL) - sd
All
[1] 14.8228
L4
[1] 9.719906
L5

[1] 17.45066

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

All

[1] 18.23263

L4

[1] 13.35714

L5

[1] 20.28778

L4 vs L5 p-value:[1] 0.02164315

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

All

[1] 13.86945

L4

[1] 8.579425

L5

[1] 13.08954

2Y. Coronal Balance (C7PL to CSVL) - mean

All

[1] 18.25252

L4

[1] 14.86364

L5

[1] 17.50778

L4 vs L5 p-value:[1] 0.410834

2Y. Coronal Balance (C7PL to CSVL) - sd

All

[1] 15.6976

L4

[1] 10.71555

L5

[1] 13.43186

5Y. Coronal Balance (C7PL to CSVL) - mean

All

[1] 20.90584

L4

[1] 16.55842

L5

[1] 17.1345

L4 vs L5 p-value:[1] 0.8667627

5Y. Coronal Balance (C7PL to CSVL) - sd

All

[1] 17.44156

L4

[1] 9.833244

L5

[1] 11.43413

Coronal Balance (C7PL to CSVL) tests all

Preop vs 6w p-value

0.06260439

Preop vs 2y p-value

0.001521409

Preop vs 5y p-value

0.2725863

6w vs 2y p-value

0.1232651

2y vs 5y p-value

0.1386677

6w vs 5y p-value

0.7298518

Coronal Balance (C7PL to CSVL) tests L4

Preop vs 6w p-value

0.2085735

Preop vs 2y p-value

0.1168046

Preop vs 5y p-value

0.3993367

6w vs 2y p-value

0.01337701

2y vs 5y p-value

0.5658197

6w vs 5y p-value

0.06388229

Coronal Balance (C7PL to CSVL) tests L5

Preop vs 6w p-value

0.472363

Preop vs 2y p-value
0.5356145

Preop vs 5y p-value
0.4672372

6w vs 2y p-value
0.2174933

2y vs 5y p-value
0.9186928

6w vs 5y p-value
0.1847344

Sagittal Balance - mean

All

[1] 42.77619

L4

[1] 13.11974

L5

[1] 29.42789

L4 vs L5 p-value:[1] 0.1287651

Sagittal Balance - sd

All

[1] 62.49559

L4

[1] 45.53696

L5

[1] 47.57232

6W. Sagittal Balance - mean

All

[1] 19.26473

L4

[1] 8.551818

L5

[1] 32.40324

L4 vs L5 p-value:[1] 0.007714831

6W. Sagittal Balance - sd

All

[1] 37.36993

L4

[1] 29.89019

L5

[1] 40.32849

6M. Sagittal Balance - mean

All

[1] 15.97674

L4

[1] 3.055

L5

[1] 21.68333

L4 vs L5 p-value:[1] 0.04552114

6M. Sagittal Balance - sd

All

[1] 43.76537

L4

[1] 31.0467

L5

[1] 39.20212

1Y. Sagittal Balance - mean

All

[1] 19.33475

L4

[1] -2.346176

L5

[1] 19.16259

L4 vs L5 p-value:[1] 0.02727914

1Y. Sagittal Balance - sd

All

[1] 48.72367

L4

[1] 33.57705

L5

[1] 39.03962

2Y. Sagittal Balance - mean

All

[1] 24.44867

L4

[1] -0.556129

L5

[1] 28.33731

L4 vs L5 p-value:[1] 0.004820746

2Y. Sagittal Balance - sd

All

[1] 49.39084

L4

[1] 34.09116

L5

[1] 38.98368

5Y. Sagittal Balance - mean

All

[1] 33.34324

L4

[1] 1.478421

L5

[1] 40.85571

L4 vs L5 p-value:[1] 0.002170761

5Y. Sagittal Balance - sd

All

[1] 48.54904

L4

[1] 34.35246

L5

[1] 41.25933

Sagittal Balance tests all

Preop vs 6w p-value

1.206885e-08

Preop vs 2y p-value

8.029604e-05

Preop vs 5y p-value

0.07912822

6w vs 2y p-value

0.1718073

2y vs 5y p-value

0.08522743

6w vs 5y p-value

0.002833183

Sagittal Balance tests L4

Preop vs 6w p-value
0.6117932

Preop vs 2y p-value
0.1555144

Preop vs 5y p-value
0.2839043

6w vs 2y p-value
0.2615273

2y vs 5y p-value
0.8395493

6w vs 5y p-value
0.4590759

Sagittal Balance tests L5
Preop vs 6w p-value
0.7748762

Preop vs 2y p-value
0.9203671

Preop vs 5y p-value
0.3401732

6w vs 2y p-value
0.6948255

2y vs 5y p-value
0.2952987

6w vs 5y p-value
0.4607481

Sagittal T2-T5 - mean
All
[1] 10.9219
L4
[1] 8.6845
L5
[1] 10.23026

L4 vs L5 p-value:[1] 0.4031292

Sagittal T2-T5 - sd
All
[1] 9.676818
L4
[1] 8.863028
L5

[1] 7.33487

6W. Sagittal T2-T5 - mean

All

[1] 13.5879

L4

[1] 11.61486

L5

[1] 12.48879

L4 vs L5 p-value:[1] 0.5942622

6W. Sagittal T2-T5 - sd

All

[1] 8.196472

L4

[1] 7.646527

L5

[1] 5.7268

6M. Sagittal T2-T5 - mean

All

[1] 14.17102

L4

[1] 13.66194

L5

[1] 13.57143

L4 vs L5 p-value:[1] 0.9741784

6M. Sagittal T2-T5 - sd

All

[1] 9.60744

L4

[1] 8.776699

L5

[1] 12.51792

1Y. Sagittal T2-T5 - mean

All

[1] 13.75941

L4

[1] 12.90394

L5

[1] 11.40897

L4 vs L5 p-value:[1] 0.5449708

1Y. Sagittal T2-T5 - sd

All

[1] 9.464446

L4

[1] 12.09008

L5

[1] 6.789844

2Y. Sagittal T2-T5 - mean

All

[1] 14.44455

L4

[1] 14.10471

L5

[1] 11.59357

L4 vs L5 p-value:[1] 0.2986884

2Y. Sagittal T2-T5 - sd

All

[1] 9.976044

L4

[1] 10.44181

L5

[1] 8.418109

5Y. Sagittal T2-T5 - mean

All

[1] 15.8525

L4

[1] 16.4135

L5

[1] 7.981429

L4 vs L5 p-value:[1] 0.006230627

5Y. Sagittal T2-T5 - sd

All

[1] 11.76296

L4

[1] 11.46709

L5

[1] 5.656832

Sagittal T2-T5 tests all
Preop vs 6w p-value
0.0002083196

Preop vs 2y p-value
1.647942e-05

Preop vs 5y p-value
1.882643e-05

6w vs 2y p-value
0.2700206

2y vs 5y p-value
0.2288968

6w vs 5y p-value
0.04128382

Sagittal T2-T5 tests L4
Preop vs 6w p-value
0.1285903

Preop vs 2y p-value
0.02006606

Preop vs 5y p-value
0.01275474

6w vs 2y p-value
0.2640278

2y vs 5y p-value
0.4650428

6w vs 5y p-value
0.1055092

Sagittal T2-T5 tests L5
Preop vs 6w p-value
0.1502634

Preop vs 2y p-value
0.4955256

Preop vs 5y p-value
0.1955455

6w vs 2y p-value
0.6357217

2y vs 5y p-value
0.07933627

6w vs 5y p-value
0.00684447

Sagittal T5-T12 - mean

All

[1] 32.71335

L4

[1] 35.44073

L5

[1] 30.13526

L4 vs L5 p-value:[1] 0.2415302

Sagittal T5-T12 - sd

All

[1] 19.03371

L4

[1] 21.71573

L5

[1] 18.18414

6W. Sagittal T5-T12 - mean

All

[1] 33.62656

L4

[1] 33.34242

L5

[1] 32.31088

L4 vs L5 p-value:[1] 0.7505943

6W. Sagittal T5-T12 - sd

All

[1] 13.90854

L4

[1] 13.38075

L5

[1] 13.06099

6M. Sagittal T5-T12 - mean

All

[1] 34.73774

L4

[1] 32.98676

L5

[1] 30.46667

L4 vs L5 p-value:[1] 0.4670917

6M. Sagittal T5-T12 - sd

All

[1] 14.02575

L4

[1] 11.92522

L5

[1] 15.48689

1Y. Sagittal T5-T12 - mean

All

[1] 35.40093

L4

[1] 34.86206

L5

[1] 33.33966

L4 vs L5 p-value:[1] 0.6606636

1Y. Sagittal T5-T12 - sd

All

[1] 13.97161

L4

[1] 12.47545

L5

[1] 14.5701

2Y. Sagittal T5-T12 - mean

All

[1] 36.11884

L4

[1] 34.97529

L5

[1] 33.20893

L4 vs L5 p-value:[1] 0.6714107

2Y. Sagittal T5-T12 - sd

All

[1] 15.92236

L4

[1] 15.06349

L5

[1] 17.12723

5Y. Sagittal T5-T12 - mean

All

[1] 39.98071

L4

[1] 34.4225

L5

[1] 38.97227

L4 vs L5 p-value:[1] 0.370834

5Y. Sagittal T5-T12 - sd

All

[1] 15.98859

L4

[1] 15.30659

L5

[1] 17.26826

Sagittal T5-T12 tests all

Preop vs 6w p-value

0.4847253

Preop vs 2y p-value

0.01664519

Preop vs 5y p-value

2.460794e-05

6w vs 2y p-value

0.04836636

2y vs 5y p-value

0.02077773

6w vs 5y p-value

6.718749e-05

Sagittal T5-T12 tests L4

Preop vs 6w p-value

0.6117047

Preop vs 2y p-value

0.9133731

Preop vs 5y p-value

0.8334733

6w vs 2y p-value

0.6403459

2y vs 5y p-value
0.8980827

6w vs 5y p-value
0.7956657

Sagittal T5-T12 tests L5
Preop vs 6w p-value
0.5589206

Preop vs 2y p-value
0.4854693

Preop vs 5y p-value
0.06741964

6w vs 2y p-value
0.8204658

2y vs 5y p-value
0.2458942

6w vs 5y p-value
0.1308473

Sagittal T2-T12 - mean
All
[1] 39.65857
L4
[1] 39.44095
L5
[1] 37.58632

L4 vs L5 p-value:[1] 0.6830684

Sagittal T2-T12 - sd
All
[1] 19.91087
L4
[1] 23.03531
L5
[1] 17.26251

6W. Sagittal T2-T12 - mean
All
[1] 42.95152
L4
[1] 40.41722
L5
[1] 41.59152

L4 vs L5 p-value:[1] 0.7283135

6W. Sagittal T2-T12 - sd

All

[1] 15.37581

L4

[1] 13.84846

L5

[1] 14.07648

6M. Sagittal T2-T12 - mean

All

[1] 44.89783

L4

[1] 41.39718

L5

[1] 37.9

L4 vs L5 p-value:[1] 0.3164742

6M. Sagittal T2-T12 - sd

All

[1] 15.41013

L4

[1] 14.68361

L5

[1] 13.93173

1Y. Sagittal T2-T12 - mean

All

[1] 44.7213

L4

[1] 41.80056

L5

[1] 39.684

L4 vs L5 p-value:[1] 0.5951255

1Y. Sagittal T2-T12 - sd

All

[1] 15.30903

L4

[1] 17.31613

L5

[1] 14.87456

2Y. Sagittal T2-T12 - mean

All

[1] 45.66838

L4

[1] 43.70943

L5

[1] 39.99483

L4 vs L5 p-value:[1] 0.3569212

2Y. Sagittal T2-T12 - sd

All

[1] 15.76841

L4

[1] 18.03837

L5

[1] 13.95897

5Y. Sagittal T2-T12 - mean

All

[1] 49.57493

L4

[1] 44.9925

L5

[1] 41.33381

L4 vs L5 p-value:[1] 0.4891298

5Y. Sagittal T2-T12 - sd

All

[1] 16.77857

L4

[1] 17.32894

L5

[1] 16.15582

Sagittal T2-T12 tests all

Preop vs 6w p-value

0.01835384

Preop vs 2y p-value

3.481336e-05

Preop vs 5y p-value

5.620083e-08

6w vs 2y p-value

0.03750999

2y vs 5y p-value
0.02322655

6w vs 5y p-value
9.599658e-05

Sagittal T2-T12 tests L4
Preop vs 6w p-value
0.8184996

Preop vs 2y p-value
0.3649725

Preop vs 5y p-value
0.2962936

6w vs 2y p-value
0.3925143

2y vs 5y p-value
0.7959928

6w vs 5y p-value
0.3178374

Sagittal T2-T12 tests L5
Preop vs 6w p-value
0.2855313

Preop vs 2y p-value
0.5301449

Preop vs 5y p-value
0.4097321

6w vs 2y p-value
0.6560589

2y vs 5y p-value
0.7612263

6w vs 5y p-value
0.9524485

Lordosis (top of L1-S1) - mean
All
[1] -43.49873
L4
[1] -47.51714
L5
[1] -41.38385

L4 vs L5 p-value:[1] 0.12683

Lordosis (top of L1-S1) - sd

All

[1] 20.69902

L4

[1] 18.96916

L5

[1] 16.79441

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

All

[1] -51.24225

L4

[1] -49.00308

L5

[1] -45.14105

L4 vs L5 p-value:[1] 0.1983333

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

All

[1] 14.31666

L4

[1] 14.45292

L5

[1] 11.52152

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

All

[1] -50.93475

L4

[1] -49.87829

L5

[1] -44.72222

L4 vs L5 p-value:[1] 0.0843069

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

All

[1] 14.143

L4

[1] 13.63278

L5

[1] 12.22786

1Y. Lordosis (top of L1-S1) - mean
All
[1] -50.99939
L4
[1] -50.41474
L5
[1] -47.47486

L4 vs L5 p-value:[1] 0.3247297

1Y. Lordosis (top of L1-S1) - sd
All
[1] 14.43568
L4
[1] 13.61477
L5
[1] 12.03265

2Y. Lordosis (top of L1-S1) - mean
All
[1] -51.48615
L4
[1] -52.71314
L5
[1] -49.10906

L4 vs L5 p-value:[1] 0.3273227

2Y. Lordosis (top of L1-S1) - sd
All
[1] 15.18502
L4
[1] 15.7278
L5
[1] 14.16177

5Y. Lordosis (top of L1-S1) - mean
All
[1] -50.78937
L4
[1] -48.3485
L5
[1] -45.53545

L4 vs L5 p-value:[1] 0.5608513

5Y. Lordosis (top of L1-S1) - sd
All
[1] 15.77495
L4
[1] 16.35281
L5
[1] 14.54658

Lordosis (top of L1-S1) tests all
Preop vs 6w p-value
2.126727e-08

Preop vs 2y p-value
3.707571e-08

Preop vs 5y p-value
3.070916e-05

6w vs 2y p-value
0.8388887

2y vs 5y p-value
0.6632412

6w vs 5y p-value
0.7685465

Lordosis (top of L1-S1) tests L4
Preop vs 6w p-value
0.6915798

Preop vs 2y p-value
0.1928245

Preop vs 5y p-value
0.8599529

6w vs 2y p-value
0.296182

2y vs 5y p-value
0.3403641

6w vs 5y p-value
0.8806502

Lordosis (top of L1-S1) tests L5
Preop vs 6w p-value
0.2553332

Preop vs 2y p-value
0.03915649

Preop vs 5y p-value
0.3167956

6w vs 2y p-value
0.2089853

2y vs 5y p-value
0.3747529

6w vs 5y p-value
0.9138651

Pelvic Incidence - mean

All

[1] 53.94477

L4

[1] 48.915

L5

[1] 52.5441

L4 vs L5 p-value:[1] 0.157949

Pelvic Incidence - sd

All

[1] 13.08012

L4

[1] 11.37921

L5

[1] 11.51062

6W. Pelvic Incidence - mean

All

[1] 54.07006

L4

[1] 48.21615

L5

[1] 52.59184

L4 vs L5 p-value:[1] 0.1014558

6W. Pelvic Incidence - sd

All

[1] 12.97202

L4

[1] 11.58524

L5

[1] 11.56849

6M. Pelvic Incidence - mean

All

[1] 53.87257

L4

[1] 47.7839

L5

[1] 51.51429

L4 vs L5 p-value:[1] 0.1498352

6M. Pelvic Incidence - sd

All

[1] 12.66077

L4

[1] 11.44377

L5

[1] 10.8692

1Y. Pelvic Incidence - mean

All

[1] 53.58789

L4

[1] 47.95154

L5

[1] 52.65378

L4 vs L5 p-value:[1] 0.06155034

1Y. Pelvic Incidence - sd

All

[1] 12.56026

L4

[1] 10.7562

L5

[1] 10.82734

2Y. Pelvic Incidence - mean

All

[1] 53.74154

L4

[1] 47.65735

L5

[1] 53.41437

L4 vs L5 p-value:[1] 0.05246645

2Y. Pelvic Incidence - sd

All

[1] 12.46023

L4

[1] 12.83766

L5

[1] 10.78803

5Y. Pelvic Incidence - mean

All

[1] 54.78028

L4

[1] 47.263

L5

[1] 54.88273

L4 vs L5 p-value:[1] 0.05373662

5Y. Pelvic Incidence - sd

All

[1] 12.46756

L4

[1] 12.84556

L5

[1] 11.88406

Pelvic Incidence tests all

Preop vs 6w p-value

0.9010697

Preop vs 2y p-value

0.8429863

Preop vs 5y p-value

0.5073785

6w vs 2y p-value

0.7511546

2y vs 5y p-value

0.4181801

6w vs 5y p-value

0.5754863

Pelvic Incidence tests L4

Preop vs 6w p-value

0.7851161

Preop vs 2y p-value
0.6566142

Preop vs 5y p-value
0.6268108

6w vs 2y p-value
0.846688

2y vs 5y p-value
0.9137755

6w vs 5y p-value
0.7820696

Pelvic Incidence tests L5
Preop vs 6w p-value
0.9855682

Preop vs 2y p-value
0.7438247

Preop vs 5y p-value
0.4595302

6w vs 2y p-value
0.7594724

2y vs 5y p-value
0.6457166

6w vs 5y p-value
0.4714235

Pelvic Tilt - mean
All
[1] 21.8733
L4
[1] 17.06357
L5
[1] 21.65564

L4 vs L5 p-value:[1] 0.0149214

Pelvic Tilt - sd
All
[1] 10.85282
L4
[1] 7.940203
L5
[1] 8.607439

6W. Pelvic Tilt - mean

All

[1] 18.00204

L4

[1] 14.51103

L5

[1] 20.87737

L4 vs L5 p-value:[1] 0.001285324

6W. Pelvic Tilt - sd

All

[1] 9.452979

L4

[1] 8.28819

L5

[1] 8.405796

6M. Pelvic Tilt - mean

All

[1] 19.46394

L4

[1] 14.35098

L5

[1] 21.22857

L4 vs L5 p-value:[1] 0.0003621315

6M. Pelvic Tilt - sd

All

[1] 9.712063

L4

[1] 8.201262

L5

[1] 7.803038

1Y. Pelvic Tilt - mean

All

[1] 19.39412

L4

[1] 15.79333

L5

[1] 21.00568

L4 vs L5 p-value:[1] 0.007487864

1Y. Pelvic Tilt - sd

All

[1] 10.12876

L4

[1] 9.02875

L5

[1] 7.446546

2Y. Pelvic Tilt - mean

All

[1] 19.27738

L4

[1] 14.11882

L5

[1] 21.49438

L4 vs L5 p-value:[1] 0.0002880703

2Y. Pelvic Tilt - sd

All

[1] 9.352162

L4

[1] 8.147682

L5

[1] 7.468692

5Y. Pelvic Tilt - mean

All

[1] 21.76769

L4

[1] 16.329

L5

[1] 24.74455

L4 vs L5 p-value:[1] 0.002866542

5Y. Pelvic Tilt - sd

All

[1] 9.708017

L4

[1] 9.51867

L5

[1] 7.214661

Pelvic Tilt tests all

Preop vs 6w p-value

1.187258e-06

Preop vs 2y p-value
0.001479425

Preop vs 5y p-value
0.916233

6w vs 2y p-value
0.09717174

2y vs 5y p-value
0.01212081

6w vs 5y p-value
0.0001245306

Pelvic Tilt tests L4
Preop vs 6w p-value
0.1615846

Preop vs 2y p-value
0.117574

Preop vs 5y p-value
0.7667899

6w vs 2y p-value
0.8393235

2y vs 5y p-value
0.3912525

6w vs 5y p-value
0.4735358

Pelvic Tilt tests L5
Preop vs 6w p-value
0.6892586

Preop vs 2y p-value
0.9329098

Preop vs 5y p-value
0.1410062

6w vs 2y p-value
0.7461256

2y vs 5y p-value
0.1156544

6w vs 5y p-value
0.06580587

Sacral Slope - mean

All

[1] 32.49831

L4

[1] 31.70881

L5

[1] 31.56974

L4 vs L5 p-value:[1] 0.9493803

Sacral Slope - sd

All

[1] 11.24453

L4

[1] 9.974521

L5

[1] 9.548232

6W. Sacral Slope - mean

All

[1] 36.01872

L4

[1] 33.65385

L5

[1] 31.66211

L4 vs L5 p-value:[1] 0.3513935

6W. Sacral Slope - sd

All

[1] 10.21491

L4

[1] 9.979686

L5

[1] 8.623344

6M. Sacral Slope - mean

All

[1] 34.38332

L4

[1] 33.31073

L5

[1] 30.08571

L4 vs L5 p-value:[1] 0.1211204

6M. Sacral Slope - sd

All

[1] 10.05546

L4

[1] 8.97487

L5

[1] 8.899344

1Y. Sacral Slope - mean

All

[1] 34.23707

L4

[1] 32.18385

L5

[1] 31.59378

L4 vs L5 p-value:[1] 0.7688873

1Y. Sacral Slope - sd

All

[1] 9.649275

L4

[1] 8.967879

L5

[1] 8.474762

2Y. Sacral Slope - mean

All

[1] 34.55096

L4

[1] 33.53853

L5

[1] 31.88812

L4 vs L5 p-value:[1] 0.4866861

2Y. Sacral Slope - sd

All

[1] 10.43826

L4

[1] 10.43142

L5

[1] 8.696084

5Y. Sacral Slope - mean

All

[1] 33.01965
L4
[1] 30.934
L5
[1] 30.13818

L4 vs L5 p-value:[1] 0.8072471

5Y. Sacral Slope - sd
All
[1] 10.79392
L4
[1] 11.35501
L5
[1] 9.429717

Sacral Slope tests all
Preop vs 6w p-value
2.495369e-05

Preop vs 2y p-value
0.01868629

Preop vs 5y p-value
0.632141

6w vs 2y p-value
0.08166943

2y vs 5y p-value
0.1639381

6w vs 5y p-value
0.00523052

Sacral Slope tests L4
Preop vs 6w p-value
0.3833419

Preop vs 2y p-value
0.4407815

Preop vs 5y p-value
0.7957267

6w vs 2y p-value
0.9617974

2y vs 5y p-value
0.4070707

6w vs 5y p-value
0.3709415

Sacral Slope tests L5
Preop vs 6w p-value
0.9648205

Preop vs 2y p-value
0.8844373

Preop vs 5y p-value
0.5755429

6w vs 2y p-value
0.9137375

2y vs 5y p-value
0.4930107

6w vs 5y p-value
0.5372656

RLL - mean
All
[1] -18.99688
L4
[1] -11.80976
L5
[1] -20.19359

L4 vs L5 p-value:[1] 0.01887427

RLL - sd
All
[1] 20.39037
L4
[1] 16.40531
L5
[1] 15.06803

6W. RLL - mean
All
[1] -11.17656
L4
[1] -9.891026
L5
[1] -16.46579

L4 vs L5 p-value:[1] 0.01238277

6W. RLL - sd
All
[1] 12.92636
L4
[1] 11.07746
L5
[1] 11.42234

6M. RLL - mean
All
[1] -11.42286
L4
[1] -8.747805
L5
[1] -15.93886

L4 vs L5 p-value:[1] 0.007415021

6M. RLL - sd
All
[1] 12.9312
L4
[1] 11.13418
L5
[1] 11.50621

1Y. RLL - mean
All
[1] -11.34216
L4
[1] -8.200789
L5
[1] -14.17027

L4 vs L5 p-value:[1] 0.02978466

1Y. RLL - sd
All
[1] 13.81769
L4
[1] 12.04899
L5
[1] 11.2711

2Y. RLL - mean
All

```
[1] -10.62964
L4
[1] -5.754706
L5
[1] -13.0075
```

```
L4 vs L5 p-value:[1] 0.0270933
```

```
2Y. RLL - sd
All
[1] 14.04272
L4
[1] 12.26523
L5
[1] 13.67183
```

```
5Y. RLL - mean
All
[1] -12.17483
L4
[1] -9.955
L5
[1] -17.49227
```

```
L4 vs L5 p-value:[1] 0.07973966
```

```
5Y. RLL - sd
All
[1] 13.83349
L4
[1] 13.58576
L5
[1] 13.54271
```

```
RLL tests all
Preop vs 6w p-value
4.717714e-09
```

```
Preop vs 2y p-value
2.628085e-09
```

```
Preop vs 5y p-value
2.446303e-05
```

```
6w vs 2y p-value
0.6209054
```

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

0.2805146

6w vs 5y p-value
0.4643248

RLL tests L4
Preop vs 6w p-value
0.5367176

Preop vs 2y p-value
0.06984195

Preop vs 5y p-value
0.6413212

6w vs 2y p-value
0.1374585

2y vs 5y p-value
0.2630089

6w vs 5y p-value
0.9856025

RLL tests L5
Preop vs 6w p-value
0.2245042

Preop vs 2y p-value
0.03904527

Preop vs 5y p-value
0.4763129

6w vs 2y p-value
0.2606083

2y vs 5y p-value
0.2397934

6w vs 5y p-value
0.7664089

Global Tilt - mean

All

[1] 26.34575

L4

[1] 17.63976

L5

[1] 24.19632

L4 vs L5 p-value:[1] 0.02809123

Global Tilt - sd

All

[1] 17.64465

L4

[1] 12.34508

L5

[1] 13.70465

6W. Global Tilt - mean

All

[1] 18.63569

L4

[1] 13.84784

L5

[1] 23.40353

L4 vs L5 p-value:[1] 0.0005703284

6W. Global Tilt - sd

All

[1] 11.84771

L4

[1] 9.667217

L5

[1] 12.23443

6M. Global Tilt - mean

All

[1] 20.27157

L4

[1] 13.32641

L5

[1] 21.96154

L4 vs L5 p-value:[1] 0.002285445

6M. Global Tilt - sd

All

[1] 13.30891

L4

[1] 9.66809

L5

[1] 11.15878

1Y. Global Tilt - mean

All

```
[1] 20.78354
L4
[1] 13.13344
L5
[1] 22.31621
```

```
L4 vs L5 p-value:[1] 0.0002698268
```

```
1Y. Global Tilt - sd
All
[1] 13.82404
L4
[1] 8.914528
L5
[1] 9.500308
```

```
2Y. Global Tilt - mean
All
[1] 20.92011
L4
[1] 12.20394
L5
[1] 22.95419
```

```
L4 vs L5 p-value:[1] 0.0001167054
```

```
2Y. Global Tilt - sd
All
[1] 13.80935
L4
[1] 10.31782
L5
[1] 10.55854
```

```
5Y. Global Tilt - mean
All
[1] 24.63748
L4
[1] 15.1195
L5
[1] 28.79091
```

```
L4 vs L5 p-value:[1] 0.0005289438
```

```
5Y. Global Tilt - sd
All
[1] 14.71007
```

L4
[1] 12.44704
L5
[1] 10.77561

Global Tilt tests all
Preop vs 6w p-value
2.128835e-10

Preop vs 2y p-value
3.027628e-05

Preop vs 5y p-value
0.276022

6w vs 2y p-value
0.03846796

2y vs 5y p-value
0.01361396

6w vs 5y p-value
3.122083e-05

Global Tilt tests L4
Preop vs 6w p-value
0.1305389

Preop vs 2y p-value
0.04140948

Preop vs 5y p-value
0.4596082

6w vs 2y p-value
0.4954686

2y vs 5y p-value
0.384842

6w vs 5y p-value
0.694201

Global Tilt tests L5
Preop vs 6w p-value
0.796135

Preop vs 2y p-value
0.6721474

Preop vs 5y p-value
0.1565911

6w vs 2y p-value
0.8742746

2y vs 5y p-value
0.0563147

6w vs 5y p-value
0.08965174

T1 Sagittal Tilt - mean

All

[1] -1.729953

L4

[1] -4.472193

L5

[1] -2.355407

L4 vs L5 p-value:[1] 0.07816866

T1 Sagittal Tilt - sd

All

[1] 6.117962

L4

[1] 3.573594

L5

[1] 5.957362

6W. T1 Sagittal Tilt - mean

All

[1] -3.53703

L4

[1] -3.997323

L5

[1] -1.82664

L4 vs L5 p-value:[1] 0.01879112

6W. T1 Sagittal Tilt - sd

All

[1] 4.011335

L4

[1] 3.317492

L5

[1] 3.807393

6M. T1 Sagittal Tilt - mean

All

[1] -4.209195
L4
[1] -4.84305
L5
[1] -3.8

L4 vs L5 p-value:[1] 0.196341

6M. T1 Sagittal Tilt - sd
All
[1] 4.287613
L4
[1] 3.196408
L5
[1] 3.02765

1Y. T1 Sagittal Tilt - mean
All
[1] -3.857386
L4
[1] -5.003071
L5
[1] -4.236946

L4 vs L5 p-value:[1] 0.4966102

1Y. T1 Sagittal Tilt - sd
All
[1] 5.009467
L4
[1] 4.604076
L5
[1] 4.047984

2Y. T1 Sagittal Tilt - mean
All
[1] -3.641381
L4
[1] -5.162802
L5
[1] -3.129655

L4 vs L5 p-value:[1] 0.01624378

2Y. T1 Sagittal Tilt - sd
All
[1] 4.489465

L4
[1] 3.128638
L5
[1] 3.387316

5Y. T1 Sagittal Tilt - mean
All
[1] -2.809025
L4
[1] -5.113959
L5
[1] -2.462173

L4 vs L5 p-value:[1] 0.009462915

5Y. T1 Sagittal Tilt - sd
All
[1] 4.9292
L4
[1] 2.82748
L5
[1] 3.463919

T1 Sagittal Tilt tests all
Preop vs 6w p-value
2.950444e-05

Preop vs 2y p-value
2.561922e-05

Preop vs 5y p-value
0.04732429

6w vs 2y p-value
0.7813274

2y vs 5y p-value
0.09785102

6w vs 5y p-value
0.1322135

T1 Sagittal Tilt tests L4
Preop vs 6w p-value
0.5723161

Preop vs 2y p-value
0.3950976

Preop vs 5y p-value
0.4607995

6w vs 2y p-value
0.1568297

2y vs 5y p-value
0.9538986

6w vs 5y p-value
0.2052346

T1 Sagittal Tilt tests L5
Preop vs 6w p-value
0.6672455

Preop vs 2y p-value
0.5177708

Preop vs 5y p-value
0.932823

6w vs 2y p-value
0.156091

2y vs 5y p-value
0.4890376

6w vs 5y p-value
0.527774

Thoracolumbar L2-T10 - mean
All
[1] 10.14681
L4
[1] 24.8219
L5
[1] 11.1527

L4 vs L5 p-value:[1] 0.004158729

Thoracolumbar L2-T10 - sd
All
[1] 20.63143
L4
[1] 19.97069
L5
[1] 20.96152

6W. Thoracolumbar L2-T10 - mean
All

[1] 4.745068
L4
[1] 1.499706
L5
[1] 3.383529

L4 vs L5 p-value:[1] 0.534681

6W. Thoracolumbar L2-T10 - sd
All
[1] 12.08934
L4
[1] 14.33
L5
[1] 10.19954

6M. Thoracolumbar L2-T10 - mean
All
[1] 4.954896
L4
[1] 3.242286
L5
[1] 5.307692

L4 vs L5 p-value:[1] 0.4708201

6M. Thoracolumbar L2-T10 - sd
All
[1] 12.18589
L4
[1] 10.87131
L5
[1] 11.06623

1Y. Thoracolumbar L2-T10 - mean
All
[1] 5.369965
L4
[1] 4.328571
L5
[1] 6.911379

L4 vs L5 p-value:[1] 0.4209241

1Y. Thoracolumbar L2-T10 - sd
All
[1] 12.62142

L4
[1] 10.26261
L5
[1] 14.36811

2Y. Thoracolumbar L2-T10 - mean
All
[1] 5.79412
L4
[1] 4.019091
L5
[1] 7.697037

L4 vs L5 p-value:[1] 0.2159588

2Y. Thoracolumbar L2-T10 - sd
All
[1] 12.6719
L4
[1] 10.73945
L5
[1] 11.77143

5Y. Thoracolumbar L2-T10 - mean
All
[1] 6.982676
L4
[1] 5.652
L5
[1] 9.366364

L4 vs L5 p-value:[1] 0.3128641

5Y. Thoracolumbar L2-T10 - sd
All
[1] 13.96373
L4
[1] 11.30167
L5
[1] 12.24836

Thoracolumbar L2-T10 tests all
Preop vs 6w p-value
5.465972e-05

Preop vs 2y p-value

0.001546628

Preop vs 5y p-value
0.05238359

6w vs 2y p-value
0.3165752

2y vs 5y p-value
0.3984091

6w vs 5y p-value
0.1027737

Thoracolumbar L2-T10 tests L4
Preop vs 6w p-value
9.798708e-08

Preop vs 2y p-value
2.345396e-07

Preop vs 5y p-value
1.110709e-05

6w vs 2y p-value
0.4177206

2y vs 5y p-value
0.6064043

6w vs 5y p-value
0.2446928

Thoracolumbar L2-T10 tests L5
Preop vs 6w p-value
0.04948556

Preop vs 2y p-value
0.4054651

Preop vs 5y p-value
0.6810473

6w vs 2y p-value
0.1378671

2y vs 5y p-value
0.6315653

6w vs 5y p-value
0.06436168

RSA - mean
All

```
[1] 15.35214
L4
[1] 9.160714
L5
[1] 13.82947
```

```
L4 vs L5 p-value:[1] 0.07113172
```

```
RSA - sd
All
[1] 15.39231
L4
[1] 11.44371
L5
[1] 11.35332
```

```
6W. RSA - mean
All
[1] 7.573828
L4
[1] 5.672703
L5
[1] 13.09794
```

```
L4 vs L5 p-value:[1] 0.001320824
```

```
6W. RSA - sd
All
[1] 9.296028
L4
[1] 8.845212
L5
[1] 9.739833
```

```
6M. RSA - mean
All
[1] 9.327491
L4
[1] 5.333846
L5
[1] 12.51846
```

```
L4 vs L5 p-value:[1] 0.0009051997
```

```
6M. RSA - sd
All
[1] 10.52038
```

```
L4
[1] 8.023078
L5
[1] 8.105674
```

```
1Y. RSA - mean
All
[1] 9.847893
L4
[1] 5.166562
L5
[1] 11.98862
```

```
L4 vs L5 p-value:[1] 0.0005692798
```

```
1Y. RSA - sd
All
[1] 10.94623
L4
[1] 7.363837
L5
[1] 7.24227
```

```
2Y. RSA - mean
All
[1] 10.08882
L4
[1] 4.159091
L5
[1] 12.57226
```

```
L4 vs L5 p-value:[1] 0.0002771497
```

```
2Y. RSA - sd
All
[1] 11.55025
L4
[1] 9.348516
L5
[1] 8.087446
```

```
5Y. RSA - mean
All
[1] 13.34259
L4
[1] 7.435
```

```
L5
[1] 17.44682

L4 vs L5 p-value:[1] 0.003816685
```

```
5Y. RSA - sd
All
[1] 12.68594
L4
[1] 11.85644
L5
[1] 8.629911
```

```
RSA tests all
Preop vs 6w p-value
4.959458e-14
```

```
Preop vs 2y p-value
2.441125e-06
```

```
Preop vs 5y p-value
0.1393535
```

```
6w vs 2y p-value
0.005318745
```

```
2y vs 5y p-value
0.01148679
```

```
6w vs 5y p-value
2.49948e-06
```

```
RSA tests L4
Preop vs 6w p-value
0.1314663
```

```
Preop vs 2y p-value
0.04077405
```

```
Preop vs 5y p-value
0.5912976
```

```
6w vs 2y p-value
0.4903931
```

```
2y vs 5y p-value
0.2999071
```

```
6w vs 5y p-value
0.5642791
```


RSA tests L5
Preop vs 6w p-value
0.7694667

Preop vs 2y p-value
0.5937744

Preop vs 5y p-value
0.1704213

6w vs 2y p-value
0.8130623

2y vs 5y p-value
0.04350424

6w vs 5y p-value
0.08640004

RPV - mean
All
[1] -8.395936
L4
[1] -6.15119
L5
[1] -8.532632

L4 vs L5 p-value:[1] 0.1099413

RPV - sd
All
[1] 9.093878
L4
[1] 6.908871
L5
[1] 6.264781

6W. RPV - mean
All
[1] -4.861015
L4
[1] -3.793846
L5
[1] -8.367368

L4 vs L5 p-value:[1] 0.0036263

6W. RPV - sd
All
[1] 7.511161

```
L4
[1] 6.999124
L5
[1] 6.35249
```

```
6M. RPV - mean
All
[1] -6.401442
L4
[1] -3.881463
L5
[1] -9.307714
```

```
L4 vs L5 p-value:[1] 0.0004057546
```

```
6M. RPV - sd
All
[1] 7.674791
L4
[1] 6.447693
L5
[1] 6.283058
```

```
1Y. RPV - mean
All
[1] -6.406026
L4
[1] -5.107692
L5
[1] -8.471622
```

```
L4 vs L5 p-value:[1] 0.02849249
```

```
1Y. RPV - sd
All
[1] 7.841029
L4
[1] 7.305366
L5
[1] 5.756638
```

```
2Y. RPV - mean
All
[1] -6.166797
L4
[1] -3.58
```

L5
[1] -8.62625

L4 vs L5 p-value:[1] 0.001881745

2Y. RPV - sd
All
[1] 7.725126
L4
[1] 6.648097
L5
[1] 5.989988

5Y. RPV - mean
All
[1] -8.30049
L4
[1] -5.95
L5
[1] -11.24227

L4 vs L5 p-value:[1] 0.02152269

5Y. RPV - sd
All
[1] 8.115654
L4
[1] 8.149249
L5
[1] 5.744464

RPV tests all
Preop vs 6w p-value
5.931477e-08

Preop vs 2y p-value
0.0009951724

Preop vs 5y p-value
0.9094059

6w vs 2y p-value
0.03599535

2y vs 5y p-value
0.009801427

6w vs 5y p-value

2.251031e-05

RPV tests L4

Preop vs 6w p-value
0.131529

Preop vs 2y p-value
0.1038785

Preop vs 5y p-value
0.9246635

6w vs 2y p-value
0.8939752

2y vs 5y p-value
0.2780007

6w vs 5y p-value
0.3206989

RPV tests L5

Preop vs 6w p-value
0.9094009

Preop vs 2y p-value
0.9493303

Preop vs 5y p-value
0.09522309

6w vs 2y p-value
0.8614437

2y vs 5y p-value
0.1128968

6w vs 5y p-value
0.07880649

Quality of Life

ODI - Score (%) - mean

All

[1] 37.48494

L4

[1] 29.21951

L5

[1] 40.78947

L4 vs L5 p-value:[1] 0.004970222

ODI - Score (%) - sd

All

[1] 19.83824

L4

[1] 17.69536

L5

[1] 17.82218

6M. ODI - Score (%) - mean

All

[1] 28.63578

L4

[1] 26.23684

L5

[1] 28.30303

L4 vs L5 p-value:[1] 0.5870559

6M. ODI - Score (%) - sd

All

[1] 17.87927

L4

[1] 15.95845

L5

[1] 15.87152

1Y. ODI - Score (%) - mean

All

[1] 25.88644

L4

[1] 18.89744

L5

[1] 29.65714

L4 vs L5 p-value:[1] 0.006735415

1Y. ODI - Score (%) - sd

All

[1] 18.01475

L4

[1] 15.16366

L5

[1] 17.66343

2Y. ODI - Score (%) - mean

All

```
[1] 27.66254
L4
[1] 21.02381
L5
[1] 27.68421
```

```
L4 vs L5 p-value:[1] 0.1289585
```

```
2Y. ODI - Score (%) - sd
All
[1] 21.22449
L4
[1] 18.02368
L5
[1] 20.52303
```

```
5Y. ODI - Score (%) - mean
All
[1] 28.8159
L4
[1] 23.65714
L5
[1] 29.46667
```

```
L4 vs L5 p-value:[1] 0.1752142
```

```
5Y. ODI - Score (%) - sd
All
[1] 21.56736
L4
[1] 17.70501
L5
[1] 16.42692
```

```
ODI - Score (%) tests all
Preop vs 6m p-value
4.234456e-09
```

```
Preop vs 2y p-value
1.669532e-09
```

```
Preop vs 5y p-value
1.3154e-06
```

```
6m vs 2y p-value
0.531449
```

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

0.5283208

6w vs 5y p-value
3.523138e-53

ODI - Score (%) tests L4
Preop vs 6m p-value
0.4333096

Preop vs 2y p-value
0.03972036

Preop vs 5y p-value
0.1763392

6m vs 2y p-value
0.1739929

2y vs 5y p-value
0.5212302

6w vs 5y p-value
7.902646e-13

ODI - Score (%) tests L5
Preop vs 6m p-value
0.0003512974

Preop vs 2y p-value
0.004010115

Preop vs 5y p-value
0.00842788

6m vs 2y p-value
0.7324842

2y vs 5y p-value
0.6920722

6w vs 5y p-value
4.821621e-14

SRS22 - Function / Activity - mean
All
[1] 3.09
L4
[1] 3.277561
L5
[1] 2.873158

L4 vs L5 p-value:[1] 0.02683056

SRS22 - Function / Activity - sd

All

[1] 0.8620615

L4

[1] 0.8726792

L5

[1] 0.7164104

6M. SRS22 - Function / Activity - mean

All

[1] 3.240662

L4

[1] 3.219474

L5

[1] 3.070937

L4 vs L5 p-value:[1] 0.4605215

6M. SRS22 - Function / Activity - sd

All

[1] 0.8076042

L4

[1] 0.8524589

L5

[1] 0.8181977

1Y. SRS22 - Function / Activity - mean

All

[1] 3.389371

L4

[1] 3.669231

L5

[1] 3.11

L4 vs L5 p-value:[1] 0.009749303

1Y. SRS22 - Function / Activity - sd

All

[1] 0.8873405

L4

[1] 0.9122107

L5

[1] 0.8972015

2Y. SRS22 - Function / Activity - mean

All


```
[1] 3.471677
L4
[1] 3.707143
L5
[1] 3.391667
```

```
L4 vs L5 p-value:[1] 0.1080432
```

```
2Y. SRS22 - Function / Activity - sd
All
[1] 0.9315734
L4
[1] 0.8907774
L5
[1] 0.8212795
```

```
5Y. SRS22 - Function / Activity - mean
All
[1] 3.479876
L4
[1] 3.582857
L5
[1] 3.38
```

```
L4 vs L5 p-value:[1] 0.3105073
```

```
5Y. SRS22 - Function / Activity - sd
All
[1] 0.9070044
L4
[1] 0.9040711
L5
[1] 0.7046276
```

```
SRS22 - Function / Activity tests all
Preop vs 6m p-value
0.02173791
```

```
Preop vs 2y p-value
7.667214e-08
```

```
Preop vs 5y p-value
3.075026e-07
```

```
6m vs 2y p-value
0.0008535996
```

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

0.9164978

6w vs 5y p-value
8.598641e-14

SRS22 - Function / Activity tests L4
Preop vs 6m p-value
0.7656171

Preop vs 2y p-value
0.02926171

Preop vs 5y p-value
0.1403798

6m vs 2y p-value
0.01448075

2y vs 5y p-value
0.5472829

6w vs 5y p-value
5.237228e-14

SRS22 - Function / Activity tests L5
Preop vs 6m p-value
0.05918874

Preop vs 2y p-value
0.005170153

Preop vs 5y p-value
0.004423053

6m vs 2y p-value
0.3791198

2y vs 5y p-value
0.9502907

6w vs 5y p-value
9.494831e-14

SRS22 - Pain - mean
All
[1] 2.603033
L4
[1] 2.827561
L5
[1] 2.350789

L4 vs L5 p-value:[1] 0.02800391

SRS22 - Pain - sd

All

[1] 0.9655291

L4

[1] 1.008833

L5

[1] 0.8824211

6M. SRS22 - Pain - mean

All

[1] 3.422145

L4

[1] 3.422368

L5

[1] 3.369687

L4 vs L5 p-value:[1] 0.8011964

6M. SRS22 - Pain - sd

All

[1] 0.8962788

L4

[1] 0.8597373

L5

[1] 0.8757577

1Y. SRS22 - Pain - mean

All

[1] 3.561038

L4

[1] 3.845385

L5

[1] 3.397143

L4 vs L5 p-value:[1] 0.05004134

1Y. SRS22 - Pain - sd

All

[1] 0.972682

L4

[1] 0.9379649

L5

[1] 0.9894995

2Y. SRS22 - Pain - mean

All

```
[1] 3.492236
L4
[1] 3.780952
L5
[1] 3.309722
```

```
L4 vs L5 p-value:[1] 0.04307255
```

```
2Y. SRS22 - Pain - sd
All
[1] 1.096029
L4
[1] 0.9999361
L5
[1] 1.014665
```

```
5Y. SRS22 - Pain - mean
All
[1] 3.342946
L4
[1] 3.47
L5
[1] 3.083871
```

```
L4 vs L5 p-value:[1] 0.1354012
```

```
5Y. SRS22 - Pain - sd
All
[1] 1.129902
L4
[1] 1.058523
L5
[1] 1.0141
```

```
SRS22 - Pain tests all
Preop vs 6m p-value
8.395163e-27
```

```
Preop vs 2y p-value
6.671258e-26
```

```
Preop vs 5y p-value
1.989905e-15
```

```
6m vs 2y p-value
0.3762109
```

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

0.1167575

6w vs 5y p-value
1.179657e-13

SRS22 - Pain tests L4
Preop vs 6m p-value
0.005996365

Preop vs 2y p-value
4.344815e-05

Preop vs 5y p-value
0.008788428

6m vs 2y p-value
0.08866341

2y vs 5y p-value
0.1923711

6w vs 5y p-value
6.33769e-14

SRS22 - Pain tests L5
Preop vs 6m p-value
9.020891e-07

Preop vs 2y p-value
4.950859e-05

Preop vs 5y p-value
0.002440434

6m vs 2y p-value
0.6089766

2y vs 5y p-value
0.3669379

6w vs 5y p-value
1.699573e-13

SRS22 - Self image / Appearance - mean
All
[1] 2.383033
L4
[1] 2.590244
L5
[1] 2.342105

L4 vs L5 p-value:[1] 0.1548127

SRS22 - Self image / Appearance - sd

All

[1] 0.7442742

L4

[1] 0.824562

L5

[1] 0.709256

6M. SRS22 - Self image / Appearance - mean

All

[1] 3.486877

L4

[1] 3.7

L5

[1] 3.498438

L4 vs L5 p-value:[1] 0.2922336

6M. SRS22 - Self image / Appearance - sd

All

[1] 0.8323526

L4

[1] 0.6803219

L5

[1] 0.8723794

1Y. SRS22 - Self image / Appearance - mean

All

[1] 3.532013

L4

[1] 3.818718

L5

[1] 3.442857

L4 vs L5 p-value:[1] 0.05463313

1Y. SRS22 - Self image / Appearance - sd

All

[1] 0.7925686

L4

[1] 0.7421029

L5

[1] 0.8931226

2Y. SRS22 - Self image / Appearance - mean

All

[1] 3.433385
L4
[1] 3.759524
L5
[1] 3.461111

L4 vs L5 p-value:[1] 0.1454374

2Y. SRS22 - Self image / Appearance - sd
All
[1] 0.9315575
L4
[1] 0.8653378
L5
[1] 0.9156661

5Y. SRS22 - Self image / Appearance - mean
All
[1] 3.357884
L4
[1] 3.6
L5
[1] 3.269355

L4 vs L5 p-value:[1] 0.1483662

5Y. SRS22 - Self image / Appearance - sd
All
[1] 0.9422712
L4
[1] 0.9113661
L5
[1] 0.9203874

SRS22 - Self image / Appearance tests all
Preop vs 6m p-value
1.036098e-57

Preop vs 2y p-value
5.696223e-48

Preop vs 5y p-value
2.671698e-34

6m vs 2y p-value
0.4441466

2y vs 5y p-value

0.3449467

6w vs 5y p-value
1.159136e-13

SRS22 - Self image / Appearance tests L4
Preop vs 6m p-value
6.275197e-09

Preop vs 2y p-value
1.439882e-08

Preop vs 5y p-value
3.704997e-06

6m vs 2y p-value
0.7320808

2y vs 5y p-value
0.4365176

6w vs 5y p-value
4.994366e-14

SRS22 - Self image / Appearance tests L5
Preop vs 6m p-value
1.377997e-12

Preop vs 2y p-value
1.651947e-07

Preop vs 5y p-value
2.457011e-05

6m vs 2y p-value
0.2092055

2y vs 5y p-value
0.3972415

6w vs 5y p-value
1.113874e-13

SRS22 - Mental health - mean
All
[1] 3.15024
L4
[1] 3.19878
L5
[1] 3.215789

L4 vs L5 p-value:[1] 0.9285385

SRS22 - Mental health - sd

All

[1] 0.854942

L4

[1] 0.8176558

L5

[1] 0.8591405

6M. SRS22 - Mental health - mean

All

[1] 3.54041

L4

[1] 3.573684

L5

[1] 3.55625

L4 vs L5 p-value:[1] 0.9320568

6M. SRS22 - Mental health - sd

All

[1] 0.8480854

L4

[1] 0.8149562

L5

[1] 0.8765539

1Y. SRS22 - Mental health - mean

All

[1] 3.592138

L4

[1] 3.75641

L5

[1] 3.505714

L4 vs L5 p-value:[1] 0.2197001

1Y. SRS22 - Mental health - sd

All

[1] 0.8220451

L4

[1] 0.802232

L5

[1] 0.9251209

2Y. SRS22 - Mental health - mean

All

```
[1] 3.497205
L4
[1] 3.633333
L5
[1] 3.570833
```

```
L4 vs L5 p-value:[1] 0.7500067
```

```
2Y. SRS22 - Mental health - sd
All
[1] 0.9377551
L4
[1] 0.8677604
L5
[1] 0.8540973
```

```
5Y. SRS22 - Mental health - mean
All
[1] 3.532365
L4
[1] 3.668571
L5
[1] 3.432258
```

```
L4 vs L5 p-value:[1] 0.2864843
```

```
5Y. SRS22 - Mental health - sd
All
[1] 0.8906518
L4
[1] 0.9517079
L5
[1] 0.8344208
```

```
SRS22 - Mental health tests all
Preop vs 6m p-value
8.276809e-09
```

```
Preop vs 2y p-value
9.80005e-07
```

```
Preop vs 5y p-value
3.57605e-07
```

```
6m vs 2y p-value
0.5414079
```

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

0.6506869

6w vs 5y p-value
7.566897e-14

SRS22 - Mental health tests L4
Preop vs 6m p-value
0.04483037

Preop vs 2y p-value
0.02128555

Preop vs 5y p-value
0.02531553

6m vs 2y p-value
0.7520899

2y vs 5y p-value
0.8667876

6w vs 5y p-value
4.100434e-14

SRS22 - Mental health tests L5
Preop vs 6m p-value
0.06643112

Preop vs 2y p-value
0.07894434

Preop vs 5y p-value
0.2941027

6m vs 2y p-value
0.9883327

2y vs 5y p-value
0.5049983

6w vs 5y p-value
7.74375e-14

SRS22 - SRS Subtotal score - mean
All
[1] 2.811772
L4
[1] 2.97878
L5
[1] 2.71

L4 vs L5 p-value:[1] 0.09354685

SRS22 - SRS Subtotal score - sd

All

[1] 0.6943877

L4

[1] 0.7600434

L5

[1] 0.6454288

6M. SRS22 - SRS Subtotal score - mean

All

[1] 3.423438

L4

[1] 3.479474

L5

[1] 3.373125

L4 vs L5 p-value:[1] 0.5144035

6M. SRS22 - SRS Subtotal score - sd

All

[1] 0.6904808

L4

[1] 0.6596885

L5

[1] 0.6896303

1Y. SRS22 - SRS Subtotal score - mean

All

[1] 3.522893

L4

[1] 3.772821

L5

[1] 3.364286

L4 vs L5 p-value:[1] 0.02219664

1Y. SRS22 - SRS Subtotal score - sd

All

[1] 0.7326649

L4

[1] 0.7236456

L5

[1] 0.7731117

2Y. SRS22 - SRS Subtotal score - mean

All

[1] 3.473385
L4
[1] 3.723571
L5
[1] 3.436667

L4 vs L5 p-value:[1] 0.111672

2Y. SRS22 - SRS Subtotal score - sd
All
[1] 0.8491084
L4
[1] 0.7912658
L5
[1] 0.7790067

5Y. SRS22 - SRS Subtotal score - mean
All
[1] 3.414752
L4
[1] 3.580571
L5
[1] 3.289032

L4 vs L5 p-value:[1] 0.1461649

5Y. SRS22 - SRS Subtotal score - sd
All
[1] 0.8760138
L4
[1] 0.8484135
L5
[1] 0.7615526

SRS22 - SRS Subtotal score tests all
Preop vs 6m p-value
5.666437e-27

Preop vs 2y p-value
2.051315e-25

Preop vs 5y p-value
1.769115e-17

6m vs 2y p-value
0.4145993

2y vs 5y p-value

0.4257375

6w vs 5y p-value
1.013087e-13

SRS22 - SRS Subtotal score tests L4
Preop vs 6m p-value
0.002451528

Preop vs 2y p-value
3.60342e-05

Preop vs 5y p-value
0.001881916

6m vs 2y p-value
0.1367817

2y vs 5y p-value
0.4502338

6w vs 5y p-value
5.440031e-14

SRS22 - SRS Subtotal score tests L5
Preop vs 6m p-value
2.169867e-06

Preop vs 2y p-value
4.559858e-05

Preop vs 5y p-value
0.001364516

6m vs 2y p-value
0.7999314

2y vs 5y p-value
0.4366109

6w vs 5y p-value
1.159859e-13

SF36 - PCS - mean
All
[1] 36.37405
L4
[1] 40.24878
L5
[1] 34.85053

L4 vs L5 p-value:[1] 0.008001579

SF36 - PCS - sd

All

[1] 9.34191

L4

[1] 9.027021

L5

[1] 8.592285

6M. SF36 - PCS - mean

All

[1] 40.33466

L4

[1] 42.96757

L5

[1] 38.68706

L4 vs L5 p-value:[1] 0.02049346

6M. SF36 - PCS - sd

All

[1] 9.018023

L4

[1] 7.653854

L5

[1] 7.541766

1Y. SF36 - PCS - mean

All

[1] 41.90603

L4

[1] 46.17949

L5

[1] 39.66743

L4 vs L5 p-value:[1] 0.005079299

1Y. SF36 - PCS - sd

All

[1] 9.910487

L4

[1] 9.565238

L5

[1] 9.764051

2Y. SF36 - PCS - mean

All

```
[1] 41.89387
L4
[1] 45.3422
L5
[1] 41.13658
```

```
L4 vs L5 p-value:[1] 0.05009991
```

```
2Y. SF36 - PCS - sd
All
[1] 10.37739
L4
[1] 10.00703
L5
[1] 8.765236
```

```
5Y. SF36 - PCS - mean
All
[1] 41.28809
L4
[1] 43.545
L5
[1] 40.62467
```

```
L4 vs L5 p-value:[1] 0.185434
```

```
5Y. SF36 - PCS - sd
All
[1] 11.27507
L4
[1] 9.059528
L5
[1] 8.381923
```

```
SF36 - PCS tests all
Preop vs 6m p-value
7.448317e-08
```

```
Preop vs 2y p-value
3.406167e-12
```

```
Preop vs 5y p-value
7.205896e-08
```

```
6m vs 2y p-value
0.04488095
```

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


0.5181065

6w vs 5y p-value
2.220629e-54

SF36 - PCS tests L4
Preop vs 6m p-value
0.154334

Preop vs 2y p-value
0.01781341

Preop vs 5y p-value
0.1206343

6m vs 2y p-value
0.2403903

2y vs 5y p-value
0.417447

6w vs 5y p-value
2.17239e-35

SF36 - PCS tests L5
Preop vs 6m p-value
4.836783e-05

Preop vs 2y p-value
0.002306935

Preop vs 5y p-value
0.00697263

6m vs 2y p-value
0.3381004

2y vs 5y p-value
0.8072016

6w vs 5y p-value
3.339344e-32

SF36 - MCS - mean
All
[1] 42.71466
L4
[1] 41.88659
L5
[1] 44.91132

L4 vs L5 p-value:[1] 0.2671804

SF36 - MCS - sd

All

[1] 11.73206

L4

[1] 11.8

L5

[1] 12.21496

6M. SF36 - MCS - mean

All

[1] 46.86537

L4

[1] 48.23703

L5

[1] 47.58147

L4 vs L5 p-value:[1] 0.8190889

6M. SF36 - MCS - sd

All

[1] 11.90581

L4

[1] 11.54626

L5

[1] 12.43532

1Y. SF36 - MCS - mean

All

[1] 47.37006

L4

[1] 50.80026

L5

[1] 47.00257

L4 vs L5 p-value:[1] 0.1710523

1Y. SF36 - MCS - sd

All

[1] 11.50197

L4

[1] 9.864652

L5

[1] 13.26289

2Y. SF36 - MCS - mean

All

[1] 47.01148
L4
[1] 49.38488
L5
[1] 49.08342

L4 vs L5 p-value:[1] 0.905938

2Y. SF36 - MCS - sd
All
[1] 12.04287
L4
[1] 10.33326
L5
[1] 12.1099

5Y. SF36 - MCS - mean
All
[1] 47.45658
L4
[1] 50.27853
L5
[1] 47.63367

L4 vs L5 p-value:[1] 0.3406633

5Y. SF36 - MCS - sd
All
[1] 11.34882
L4
[1] 10.39116
L5
[1] 11.49529

SF36 - MCS tests all
Preop vs 6m p-value
1.116871e-05

Preop vs 2y p-value
5.388458e-06

Preop vs 5y p-value
1.783548e-06

6m vs 2y p-value
0.8787294

2y vs 5y p-value

0.6565847

6w vs 5y p-value
1.791352e-58

SF36 - MCS tests L4
Preop vs 6m p-value
0.0188427

Preop vs 2y p-value
0.003017321

Preop vs 5y p-value
0.001627255

6m vs 2y p-value
0.646381

2y vs 5y p-value
0.7112284

6w vs 5y p-value
5.544388e-34

SF36 - MCS tests L5
Preop vs 6m p-value
0.229428

Preop vs 2y p-value
0.1391076

Preop vs 5y p-value
0.3491436

6m vs 2y p-value
0.757567

2y vs 5y p-value
0.6157796

6w vs 5y p-value
2.171426e-26

Surgery

Total Operative Blood Loss st1+st2+st3 - mean

All

[1] 1541.899

L4

[1] 1102.821

L5

[1] 1356.528

L4 vs L5 p-value:[1] 0.2336043

Total Operative Blood Loss st1+st2+st3 - sd

All

[1] 1257.928

L4

[1] 778.6153

L5

[1] 1021.535

Total surgical time st1+st2+st3 - mean

All

[1] 321.9366

L4

[1] 268.2143

L5

[1] 352.0769

L4 vs L5 p-value:[1] 0.03805626

Total surgical time st1+st2+st3 - sd

All

[1] 163.1972

L4

[1] 135.0524

L5

[1] 210.2413

Number of Posterior Instrumented Levels - mean

All

[1] 9.724242

L4

[1] 9.333333

L5

[1] 8.615385

L4 vs L5 p-value:[1] 0.4527274

Number of Posterior Instrumented Levels - sd

All

[1] 4.006797

L4

[1] 3.961194

L5

[1] 4.551549

Pelvic fixation - table

All

variable

No Yes

214 134

L4

variable

No

42

L5

variable

No

39

Pelvic fixation - proportion

All

variable

No Yes

0.6149425 0.3850575

L4

variable

No

1

L5

variable

No

1

Surgical Approach - table

All

variable

Anterior-Posterior

4

Posterior

329

Posterior-Anterior

11

Posterior-Posterior

3

Posterior-Posterior-Anterior

1

L4

variable

Posterior

42

L5

variable

Anterior-Posterior

1

Posterior Posterior-Posterior

37

1

Surgical Approach - proportion

All

variable

Anterior-Posterior

0.011494253

Posterior

0.945402299

	Posterior-Anterior		Posterior-Posterior
	0.031609195		0.008620690
Posterior-Posterior-Anterior			
	0.002873563		
L4			
variable			
Posterior			
1			
L5			
variable			
Anterior-Posterior		Posterior	Posterior-Posterior
0.02564103		0.94871795	0.02564103

Number of Interbody Fusions - mean

All
 [1] 0.8477011
 L4
 [1] 0.3095238
 L5
 [1] 1.025641

L4 vs L5 p-value:[1] 0.004462937

Number of Interbody Fusions - sd

All
 [1] 1.184589
 L4
 [1] 0.6043781
 L5
 [1] 1.385777

Decompression - table

All
 variable
 No Yes
 261 87
 L4
 variable
 No Yes
 33 9
 L5
 variable
 No Yes
 26 13

Decompression - proportion

All
 variable
 No Yes

0.75	0.25
L4	
variable	
No	Yes
0.7857143	0.2142857
L5	
variable	
No	Yes
0.6666667	0.3333333

Interbody Fusion - table

All	
variable	
No	Yes
193	155
L4	
variable	
No	Yes
32	10
L5	
variable	
No	Yes
19	20

Interbody Fusion - proportion

All	
variable	
No	Yes
0.5545977	0.4454023
L4	
variable	
No	Yes
0.7619048	0.2380952
L5	
variable	
No	Yes
0.4871795	0.5128205

Osteotomy - table

All	
variable	
No	Yes
178	170
L4	
variable	
No	Yes
23	19
L5	
variable	
No	Yes

25 14

Osteotomy - proportion

All

variable

No Yes

0.5114943 0.4885057

L4

variable

No Yes

0.547619 0.452381

L5

variable

No Yes

0.6410256 0.3589744

3C0 - table

All

variable

No Yes

295 53

L4

variable

No Yes

37 5

L5

variable

No Yes

33 6

3C0 - proportion

All

variable

No Yes

0.8477011 0.1522989

L4

variable

No Yes

0.8809524 0.1190476

L5

variable

No Yes

0.8461538 0.1538462

Reinterventions

	group	reiqs	patients	total
1:	all	280	105	348
2:	L4	9	7	42
3:	L5	40	12	39

	p_val_1_total	p_val_2_total	p_val_1_2
1	7.097821e-71	1.68688e-45	9.263546e-06

Impacts

	Complication	Impact	all_num	all_patients	L4_num	L4_patients	L5_num
1:		0	1	1	0	0	0
2:	Adverse Event		9	7	0	0	2
3:	Major Complication		329	116	14	7	49
4:	Minor Complication		287	169	21	15	28
	L5_patients	total_all	L4	L5	p_val_1_total	p_val_2_total	p_val_1_2
1:	0	348	42	39	1.000000e+00	1.000000e+00	1.00000000
2:	1	348	42	39	1.562500e-02	7.031250e-02	1.00000000
3:	14	348	42	39	1.420009e-26	3.643734e-21	0.1892471
4:	19	348	42	39	3.568593e-34	2.976574e-31	0.6075914

Categories

	Category of the complication	all_num	all_patients	L4_num	L4_patients			
1:	Central neurologic complications	2	2	0	0			
2:	Iatrogenic	75	64	10	8			
3:	Infectious complications	39	30	3	3			
4:	Mechanical complications	284	133	11	7			
5:	Other complications	145	87	9	5			
6:	Pain	22	21	0	0			
7:	Peripheral neurologic complications	59	47	2	2			
	L5_num	L5_patients	total_all	L4	L5	p_val_1_total	p_val_2_total	p_val_1_2
1:	0	0	348	42	39	5.000000e-01	5.000000e-01	1.00000000
2:	13	11	348	42	39	5.765519e-12	3.108522e-10	0.64760590
3:	11	7	348	42	39	1.401175e-06	1.910764e-04	0.34375000
4:	28	13	348	42	39	2.717864e-31	3.147209e-26	0.26317596
5:	17	14	348	42	39	2.104348e-20	4.798717e-14	0.06356812
6:	4	3	348	42	39	9.536743e-07	2.771616e-04	0.25000000
7:	6	5	348	42	39	4.355627e-12	1.284823e-09	0.45312500