

## Clusters Descriptives

\$vars

```
[1] "Weight (kgs)_First Visit"      "Age"
[3] "Sagittal Balance"              "Coronal Balance (C7PL to CSVL)"
[5] "Static Major curve Cobb angle"  "Pelvic Tilt"
[7] "ODI - Score (%)"               "SRS22 - Function / Activity"
[9] "SRS22 - Mental health"          "SRS22 - Pain"
[11] "SRS22 - Self image / Appearance" "SRS22 - SRS Subtotal score"
```

Initial Patients: 372

Number of patients

```
cluster  N
1:       1 66
2:       2 139
3:       3 63
4:       4 66
5:       5 38
```

### Demographics

	variable	All.mean	All.sd	1.mean	1.sd
Age	Age	52.42	19.39	68.85	9.14
Height (cm)_First Visit	Height (cm)_First Visit	163.08	9.41	162.62	8.51
Weight (kgs)_First Visit	Weight (kgs)_First Visit	65.62	13.01	67.65	13.67
BMI_First Visit	BMI_First Visit	24.69	4.57	25.50	4.49
	2.mean 2.sd 3.mean 3.sd 4.mean 4.sd 5.mean 5.sd				
Age	56.47 15.43 63.22 10.37 29.61 11.04 30.76 13.80				
Height (cm)_First Visit	162.43 8.21 161.35 10.24 164.71 11.74 166.26 8.27				
Weight (kgs)_First Visit	63.91 10.39 72.59 11.91 64.11 16.98 59.46 8.87				
BMI_First Visit	24.27 3.94 27.98 4.61 23.46 4.76 21.51 2.81				
	p.val_1.2 p.val_1.3 p.val_1.4 p.val_1.5 p.val_2.3				
Age	0.0000 0.0014 0.0000 0.0000 0.0004				
Height (cm)_First Visit	0.8848 0.4491 0.2438 0.0358 0.4621				
Weight (kgs)_First Visit	0.0536 0.0310 0.1908 0.0004 0.0000				
BMI_First Visit	0.0617 0.0025 0.0130 0.0000 0.0000				
	p.val_2.4 p.val_2.5 p.val_3.4 p.val_3.5 p.val_4.5				
Age	0.0000 0.0000 0.0000 0.0000 0.6602				
Height (cm)_First Visit	0.1584 0.0140 0.0850 0.0098 0.4335				
Weight (kgs)_First Visit	0.9326 0.0103 0.0013 0.0000 0.0701				
BMI_First Visit	0.2327 0.0000 0.0000 0.0000 0.0096				
	p.val_all				
Age	0.0000				
Height (cm)_First Visit	0.0535				
Weight (kgs)_First Visit	0.0000				
BMI_First Visit	0.0000				

```

$Gender
$Gender$All
$Gender$All$table
variable
Female    Male
    291     81

```

```

$Gender$All$proportion
variable
    Female    Male
0.7822581 0.2177419

```

```

$Gender$'1'
$Gender$'1'$table
variable
Female    Male
    49     17

```

```

$Gender$'1'$proportion
variable
    Female    Male
0.7424242 0.2575758

```

```

$Gender$'2'
$Gender$'2'$table
variable
Female    Male
    119     20

```

```

$Gender$'2'$proportion
variable
    Female    Male
0.8561151 0.1438849

```

```

$Gender$'3'
$Gender$'3'$table
variable
Female    Male
    49     14

```

```

$Gender$'3'$proportion
variable
    Female    Male
0.7777778 0.2222222

```

```

$Gender$'4'
$Gender$'4'$table
variable
Female    Male
    46     20

```

```

$Gender$'4'$proportion
variable
  Female      Male
0.6969697 0.3030303

```

```

$Gender$'5'
$Gender$'5'$table
variable
Female      Male
    28      10

```

```

$Gender$'5'$proportion
variable
  Female      Male
0.7368421 0.2631579

```

```

$'Prior Spine Surgery'
$'Prior Spine Surgery'$All
$'Prior Spine Surgery'$All$table
variable
  No Yes
255 117

```

```

$'Prior Spine Surgery'$All$proportion
variable
  No      Yes
0.6854839 0.3145161

```

```

$'Prior Spine Surgery'$'1'
$'Prior Spine Surgery'$'1'$table
variable
  No Yes
  41  25

```

```

$'Prior Spine Surgery'$'1'$proportion
variable
  No      Yes
0.6212121 0.3787879

```

```

$'Prior Spine Surgery'$'2'
$'Prior Spine Surgery'$'2'$table
variable
  No Yes
  98  41

```

```

$'Prior Spine Surgery'$'2'$proportion
variable
  No      Yes

```

0.705036 0.294964

```
$'Prior Spine Surgery'$'3'  
$'Prior Spine Surgery'$'3'$table  
variable  
  No Yes  
  29 34
```

```
$'Prior Spine Surgery'$'3'$proportion  
variable  
      No      Yes  
0.4603175 0.5396825
```

```
$'Prior Spine Surgery'$'4'  
$'Prior Spine Surgery'$'4'$table  
variable  
  No Yes  
  53 13
```

```
$'Prior Spine Surgery'$'4'$proportion  
variable  
      No      Yes  
0.8030303 0.1969697
```

```
$'Prior Spine Surgery'$'5'  
$'Prior Spine Surgery'$'5'$table  
variable  
  No Yes  
  34  4
```

```
$'Prior Spine Surgery'$'5'$proportion  
variable  
      No      Yes  
0.8947368 0.1052632
```

```
$'ASA classification'  
$'ASA classification'$All  
$'ASA classification'$All$table  
variable  
   1   2   3  
112 203  57
```

```
$'ASA classification'$All$proportion  
variable  
      1      2      3  
0.3010753 0.5456989 0.1532258
```

```
$'ASA classification'$'1'
```

```
$'ASA classification'$'1'$table  
variable  
1 2 3  
7 43 16
```

```
$'ASA classification'$'1'$proportion  
variable  
1 2 3  
0.1060606 0.6515152 0.2424242
```

```
$'ASA classification'$'2'  
$'ASA classification'$'2'$table  
variable  
1 2 3  
32 86 21
```

```
$'ASA classification'$'2'$proportion  
variable  
1 2 3  
0.2302158 0.6187050 0.1510791
```

```
$'ASA classification'$'3'  
$'ASA classification'$'3'$table  
variable  
1 2 3  
7 40 16
```

```
$'ASA classification'$'3'$proportion  
variable  
1 2 3  
0.1111111 0.6349206 0.2539683
```

```
$'ASA classification'$'4'  
$'ASA classification'$'4'$table  
variable  
1 2 3  
37 25 4
```

```
$'ASA classification'$'4'$proportion  
variable  
1 2 3  
0.56060606 0.37878788 0.06060606
```

```
$'ASA classification'$'5'  
$'ASA classification'$'5'$table  
variable  
1 2  
29 9
```

```
$'ASA classification'$'5'$proportion
```

```
variable
      1      2
0.7631579 0.2368421
```

```
$'Tobacco use_First Visit'
$'Tobacco use_First Visit'$All
$'Tobacco use_First Visit'$All$table
variable
  Current      Ex Non-User
      74      67      231
```

```
$'Tobacco use_First Visit'$All$proportion
variable
  Current      Ex Non-User
0.1989247 0.1801075 0.6209677
```

```
$'Tobacco use_First Visit'$'1'
$'Tobacco use_First Visit'$'1'$table
variable
  Current      Ex Non-User
      8      13      45
```

```
$'Tobacco use_First Visit'$'1'$proportion
variable
  Current      Ex Non-User
0.1212121 0.1969697 0.6818182
```

```
$'Tobacco use_First Visit'$'2'
$'Tobacco use_First Visit'$'2'$table
variable
  Current      Ex Non-User
      32      30      77
```

```
$'Tobacco use_First Visit'$'2'$proportion
variable
  Current      Ex Non-User
0.2302158 0.2158273 0.5539568
```

```
$'Tobacco use_First Visit'$'3'
$'Tobacco use_First Visit'$'3'$table
variable
  Current      Ex Non-User
      14      7      42
```

```
$'Tobacco use_First Visit'$'3'$proportion
variable
  Current      Ex Non-User
0.2222222 0.1111111 0.6666667
```

```

$'Tobacco use_First Visit'$'4'
$'Tobacco use_First Visit'$'4'$table
variable
  Current      Ex Non-User
      19      11      36

```

```

$'Tobacco use_First Visit'$'4'$proportion
variable
  Current      Ex Non-User
0.2878788 0.1666667 0.5454545

```

```

$'Tobacco use_First Visit'$'5'
$'Tobacco use_First Visit'$'5'$table
variable
  Current      Ex Non-User
      1      6      31

```

```

$'Tobacco use_First Visit'$'5'$proportion
variable
  Current      Ex Non-User
0.02631579 0.15789474 0.81578947

```

```

$'ESSG Diagnosis'
$'ESSG Diagnosis'$All
$'ESSG Diagnosis'$All$table
variable
      Congenital      Degenerative
      10      132
      Failed-back      Idiopathic
      20      166
      Neuromuscular Other: Ankylosing spondylitis
      5      1
      Other: hyperkyphosis Other: radiotherapy induced
      1      1
      Other: spondylolisthesis      Post-traumatic
      1      15
      Scheuermann      Syndromic
      15      5

```

```

$'ESSG Diagnosis'$All$proportion
variable
      Congenital      Degenerative
      0.026881720      0.354838710
      Failed-back      Idiopathic
      0.053763441      0.446236559
      Neuromuscular Other: Ankylosing spondylitis
      0.013440860      0.002688172
      Other: hyperkyphosis Other: radiotherapy induced
      0.002688172      0.002688172
      Other: spondylolisthesis      Post-traumatic

```

0.002688172	0.040322581
Scheuermann	Syndromic
0.040322581	0.013440860

```
$'ESSG Diagnosis'$'1'
$'ESSG Diagnosis'$'1'$table
variable
  Degenerative    Failed-back    Idiopathic    Neuromuscular    Post-traumatic
                46                7                10                1                2
```

```
$'ESSG Diagnosis'$'1'$proportion
variable
  Degenerative    Failed-back    Idiopathic    Neuromuscular    Post-traumatic
    0.69696970    0.10606061    0.15151515    0.01515152    0.03030303
```

```
$'ESSG Diagnosis'$'2'
$'ESSG Diagnosis'$'2'$table
variable
      Congenital      Degenerative
              1              50
      Failed-back      Idiopathic
              5              68
      Neuromuscular    Other: Ankylosing spondylitis
              1              1
      Other: hyperkyphosis    Other: spondylolisthesis
              1              1
      Post-traumatic      Scheuermann
              5              4
      Syndromic
              2
```

```
$'ESSG Diagnosis'$'2'$proportion
variable
      Congenital      Degenerative
    0.007194245    0.359712230
      Failed-back      Idiopathic
    0.035971223    0.489208633
      Neuromuscular    Other: Ankylosing spondylitis
    0.007194245    0.007194245
      Other: hyperkyphosis    Other: spondylolisthesis
    0.007194245    0.007194245
      Post-traumatic      Scheuermann
    0.035971223    0.028776978
      Syndromic
    0.014388489
```

```
$'ESSG Diagnosis'$'3'
$'ESSG Diagnosis'$'3'$table
variable
  Congenital    Degenerative    Failed-back    Idiopathic    Neuromuscular
                2                35                7                10                2
```



Post-traumatic	Scheuermann
6	1

\$'ESSG Diagnosis'\$'3'\$proportion  
variable

Congenital	Degenerative	Failed-back	Idiopathic	Neuromuscular
0.03174603	0.55555556	0.11111111	0.15873016	0.03174603
Post-traumatic	Scheuermann			
0.09523810	0.01587302			

\$'ESSG Diagnosis'\$'4'  
\$'ESSG Diagnosis'\$'4'\$table  
variable

Congenital	Degenerative
5	1
Failed-back	Idiopathic
1	46
Neuromuscular	Other: radiotherapy induced
1	1
Post-traumatic	Scheuermann
1	7
Syndromic	
3	

\$'ESSG Diagnosis'\$'4'\$proportion  
variable

Congenital	Degenerative
0.07575758	0.01515152
Failed-back	Idiopathic
0.01515152	0.69696970
Neuromuscular	Other: radiotherapy induced
0.01515152	0.01515152
Post-traumatic	Scheuermann
0.01515152	0.10606061
Syndromic	
0.04545455	

\$'ESSG Diagnosis'\$'5'  
\$'ESSG Diagnosis'\$'5'\$table  
variable

Congenital	Idiopathic	Post-traumatic	Scheuermann
2	32	1	3

\$'ESSG Diagnosis'\$'5'\$proportion  
variable

Congenital	Idiopathic	Post-traumatic	Scheuermann
0.05263158	0.84210526	0.02631579	0.07894737

\$'Surgical Approach'  
\$'Surgical Approach'\$All

\$'Surgical Approach'\$All\$table  
variable

Anterior	Anterior-Posterior
1	4
Posterior	Posterior-Anterior
352	11
Posterior-Posterior	Posterior-Posterior-Anterior
3	1

\$'Surgical Approach'\$All\$proportion  
variable

Anterior	Anterior-Posterior
0.002688172	0.010752688
Posterior	Posterior-Anterior
0.946236559	0.029569892
Posterior-Posterior	Posterior-Posterior-Anterior
0.008064516	0.002688172

\$'Surgical Approach'\$'1'  
\$'Surgical Approach'\$'1'\$table  
variable

Posterior	Posterior-Anterior	Posterior-Posterior
61	4	1

\$'Surgical Approach'\$'1'\$proportion  
variable

Posterior	Posterior-Anterior	Posterior-Posterior
0.92424242	0.06060606	0.01515152

\$'Surgical Approach'\$'2'  
\$'Surgical Approach'\$'2'\$table  
variable

Anterior	Anterior-Posterior	Posterior	Posterior-Posterior
1	2	135	1

\$'Surgical Approach'\$'2'\$proportion  
variable

Anterior	Anterior-Posterior	Posterior	Posterior-Posterior
0.007194245	0.014388489	0.971223022	0.007194245

\$'Surgical Approach'\$'3'  
\$'Surgical Approach'\$'3'\$table  
variable

Posterior	Posterior-Anterior
56	7

\$'Surgical Approach'\$'3'\$proportion  
variable

Posterior	Posterior-Anterior
0.8888889	0.1111111

\$'Surgical Approach'\$'4'  
 \$'Surgical Approach'\$'4'\$table  
 variable

Anterior-Posterior	Posterior
2	62
Posterior-Posterior	Posterior-Posterior-Anterior
1	1

\$'Surgical Approach'\$'4'\$proportion  
 variable

Anterior-Posterior	Posterior
0.03030303	0.93939394
Posterior-Posterior	Posterior-Posterior-Anterior
0.01515152	0.01515152

\$'Surgical Approach'\$'5'  
 \$'Surgical Approach'\$'5'\$table  
 variable  
 Posterior  
 38

\$'Surgical Approach'\$'5'\$proportion  
 variable  
 Posterior  
 1

## Radiology

[1] "Static Major curve Cobb angle"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd
Static Major curve Cobb angle	42.46	21.33	33.57	17.10	39.93	17.98
6W. Static Major curve Cobb angle	23.00	16.25	19.68	14.27	22.54	14.81
6M. Static Major curve Cobb angle	23.05	17.22	17.52	12.27	21.77	15.49
1Y. Static Major curve Cobb angle	20.74	16.11	17.40	14.46	21.09	15.96
2Y. Static Major curve Cobb angle	22.52	17.11	17.11	13.71	22.21	15.37
5Y. Static Major curve Cobb angle	25.54	17.29	17.46	10.22	26.74	16.96
	3.mean	3.sd	4.mean	4.sd	5.mean	5.sd
Static Major curve Cobb angle	31.68	20.00	59.68	22.63	55.81	14.55
6W. Static Major curve Cobb angle	15.42	11.56	31.58	20.83	26.71	14.76
6M. Static Major curve Cobb angle	17.86	14.98	33.49	22.15	26.71	16.30
1Y. Static Major curve Cobb angle	13.61	10.38	28.41	20.33	23.11	12.79
2Y. Static Major curve Cobb angle	16.39	13.18	31.42	22.55	26.69	16.16
5Y. Static Major curve Cobb angle	15.43	9.49	39.31	21.67	30.20	14.78
	p.val_1.2	p.val_1.3	p.val_1.4	p.val_1.5		
Static Major curve Cobb angle	0.0192	0.5772	0.0000	0.0000		
6W. Static Major curve Cobb angle	0.2262	0.0948	0.0006	0.0289		
6M. Static Major curve Cobb angle	0.0573	0.9037	0.0000	0.0061		

1Y. Static Major curve Cobb angle	0.1316	0.1204	0.0012	0.0544
2Y. Static Major curve Cobb angle	0.0475	0.7933	0.0003	0.0069
5Y. Static Major curve Cobb angle	0.0056	0.4885	0.0002	0.0069
	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4
Static Major curve Cobb angle	0.0075	0.0000	0.0000	0e+00
6W. Static Major curve Cobb angle	0.0011	0.0042	0.1470	0e+00
6M. Static Major curve Cobb angle	0.1348	0.0008	0.1182	1e-04
1Y. Static Major curve Cobb angle	0.0003	0.0177	0.4393	0e+00
2Y. Static Major curve Cobb angle	0.0176	0.0113	0.1637	1e-04
5Y. Static Major curve Cobb angle	0.0002	0.0203	0.4310	0e+00
	p.val_3.5	p.val_4.5	p.val_all	
Static Major curve Cobb angle	0.0000	0.3090	0	
6W. Static Major curve Cobb angle	0.0004	0.1936	0	
6M. Static Major curve Cobb angle	0.0137	0.1005	0	
1Y. Static Major curve Cobb angle	0.0005	0.1264	0	
2Y. Static Major curve Cobb angle	0.0031	0.2665	0	
5Y. Static Major curve Cobb angle	0.0016	0.1324	0	

  

	t0	t1	1	2	3	4	5	All
1: Preop 2Y	0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.0000	
2: Preop 5Y	0.0000	0.0000	0.0000	0.0000	0.0006	0.000	0.0000	
3: Preop 6W	0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.0000	
4: 6W 2Y	0.3607	0.8744	0.6962	0.9690	0.996	0.7258		
5: 6W 5Y	0.4614	0.1141	0.9974	0.1591	0.439	0.1398		
6: 2Y 5Y	0.9103	0.1013	0.7108	0.1669	0.452	0.0902		

[1] "Coronal Balance (C7PL to CSVL)"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd
Coronal Balance (C7PL to CSVL)	22.49	19.35	36.26	17.12	14.52	10.98
6W. Coronal Balance (C7PL to CSVL)	20.14	15.06	21.83	16.64	20.21	15.43
6M. Coronal Balance (C7PL to CSVL)	18.59	14.71	19.38	16.00	19.20	14.24
1Y. Coronal Balance (C7PL to CSVL)	18.02	13.84	19.63	13.22	17.86	12.91
2Y. Coronal Balance (C7PL to CSVL)	18.12	15.53	19.73	17.80	18.21	13.68
5Y. Coronal Balance (C7PL to CSVL)	20.81	17.32	28.69	22.70	22.68	17.95

  

	3.mean	3.sd	4.mean	4.sd	5.mean	5.sd
Coronal Balance (C7PL to CSVL)	30.02	29.64	21.20	16.01	15.05	8.75
6W. Coronal Balance (C7PL to CSVL)	21.00	14.80	19.77	12.88	16.79	15.42
6M. Coronal Balance (C7PL to CSVL)	23.15	18.44	15.47	11.13	13.45	10.54
1Y. Coronal Balance (C7PL to CSVL)	21.43	19.15	16.88	12.41	12.69	7.81
2Y. Coronal Balance (C7PL to CSVL)	22.14	19.70	16.22	13.47	10.97	7.86
5Y. Coronal Balance (C7PL to CSVL)	20.21	16.21	15.76	11.51	12.70	11.06

  

	p.val_1.2	p.val_1.3	p.val_1.4	p.val_1.5
Coronal Balance (C7PL to CSVL)	0.0000	0.1613	0.0000	0.0000
6W. Coronal Balance (C7PL to CSVL)	0.5654	0.7912	0.4892	0.1607
6M. Coronal Balance (C7PL to CSVL)	0.9447	0.2853	0.1622	0.0478
1Y. Coronal Balance (C7PL to CSVL)	0.4477	0.5962	0.2961	0.0050
2Y. Coronal Balance (C7PL to CSVL)	0.6166	0.5278	0.2995	0.0052
5Y. Coronal Balance (C7PL to CSVL)	0.2940	0.1619	0.0302	0.0094

  

	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4
Coronal Balance (C7PL to CSVL)	0.0002	0.0043	0.7768	0.0465
6W. Coronal Balance (C7PL to CSVL)	0.7572	0.8510	0.2657	0.6524

6M. Coronal Balance (C7PL to CSVL)	0.1917	0.0784	0.0160	0.0152
1Y. Coronal Balance (C7PL to CSVL)	0.2441	0.6505	0.0076	0.1679
2Y. Coronal Balance (C7PL to CSVL)	0.2061	0.4288	0.0006	0.0869
5Y. Coronal Balance (C7PL to CSVL)	0.5289	0.0522	0.0083	0.2674

	p.val_3.5	p.val_4.5	p.val_all
Coronal Balance (C7PL to CSVL)	0.0006	0.0187	0.0000
6W. Coronal Balance (C7PL to CSVL)	0.2133	0.3525	0.6476
6M. Coronal Balance (C7PL to CSVL)	0.0038	0.4112	0.0245
1Y. Coronal Balance (C7PL to CSVL)	0.0063	0.0658	0.0737
2Y. Coronal Balance (C7PL to CSVL)	0.0006	0.0408	0.0282
5Y. Coronal Balance (C7PL to CSVL)	0.0721	0.4099	0.0327

	t0	t1	1	2	3	4	5	All
1: Preop	2Y	0.0000	0.0347	0.0986	0.0897	0.0601	0.0023	
2: Preop	5Y	0.1816	0.0026	0.0497	0.1002	0.4548	0.3511	
3: Preop	6W	0.0000	0.0018	0.0419	0.5998	0.5714	0.0873	
4:	6W 2Y	0.5565	0.3358	0.7386	0.1939	0.0596	0.1213	
5:	6W 5Y	0.2309	0.3870	0.8319	0.1992	0.2833	0.6961	
6:	2Y 5Y	0.1279	0.1150	0.6396	0.8877	0.5765	0.1253	

[1] "Sagittal Balance"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd
Sagittal Balance	41.67	63.02	107.98	58.77	21.11	37.82	93.82	59.04
6W. Sagittal Balance	18.93	37.88	42.78	36.39	15.96	34.39	35.93	38.41
6M. Sagittal Balance	16.75	44.68	35.65	47.96	15.30	39.31	38.57	52.33
1Y. Sagittal Balance	19.20	48.86	49.55	45.24	11.96	41.47	49.10	54.00
2Y. Sagittal Balance	24.55	49.64	55.12	44.50	15.51	38.52	60.15	54.87
5Y. Sagittal Balance	34.29	48.85	63.31	60.57	29.78	42.75	61.98	43.51
	4.mean	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3	p.val_1.4	
Sagittal Balance	-0.75	33.23	-10.03	26.30	0.0000	0.1868	0e+00	
6W. Sagittal Balance	1.14	33.94	-5.89	22.75	0.0000	0.3551	0e+00	
6M. Sagittal Balance	-4.04	30.61	-6.31	36.05	0.0111	0.7720	0e+00	
1Y. Sagittal Balance	-3.45	39.92	-14.36	28.47	0.0000	0.9642	0e+00	
2Y. Sagittal Balance	-6.58	33.02	-5.87	36.08	0.0000	0.6235	0e+00	
5Y. Sagittal Balance	4.65	30.96	6.21	38.17	0.0272	0.9330	4e-04	
	p.val_1.5	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4			
Sagittal Balance	0.0000	0.0000	0.0001	0.0000	0			
6W. Sagittal Balance	0.0000	0.0016	0.0123	0.0000	0			
6M. Sagittal Balance	0.0000	0.0061	0.0008	0.0046	0			
1Y. Sagittal Balance	0.0000	0.0000	0.0270	0.0001	0			
2Y. Sagittal Balance	0.0000	0.0000	0.0008	0.0070	0			
5Y. Sagittal Balance	0.0012	0.0025	0.0064	0.0382	0			
	p.val_3.5	p.val_4.5	p.val_all					
Sagittal Balance	0e+00	0.1295	0					
6W. Sagittal Balance	0e+00	0.2563	0					
6M. Sagittal Balance	0e+00	0.7639	0					
1Y. Sagittal Balance	0e+00	0.1508	0					
2Y. Sagittal Balance	0e+00	0.9308	0					
5Y. Sagittal Balance	1e-04	0.8925	0					

	t0	t1	1	2	3	4	5	All
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1: Preop 2Y 0.0000 0.2840 0.0022 0.3690 0.5975 0.0002
2: Preop 5Y 0.0059 0.1892 0.0063 0.5013 0.1263 0.1640
3: Preop 6W 0.0000 0.2684 0.0000 0.7674 0.4803 0.0000
4:   6W 2Y 0.1527 0.9305 0.0102 0.2642 0.9982 0.1367
5:   6W 5Y 0.1602 0.0371 0.0113 0.6742 0.2404 0.0011
6:   2Y 5Y 0.5857 0.0425 0.8715 0.1864 0.2931 0.0573

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[1] "Sagittal T2-T5"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd
Sagittal T2-T5	11.09	9.83	9.94	8.09	11.76	10.47	10.67	10.35
6W. Sagittal T2-T5	13.65	8.18	13.76	8.21	13.35	7.60	14.64	9.57
6M. Sagittal T2-T5	14.05	9.61	14.30	9.88	13.96	10.06	13.60	11.43
1Y. Sagittal T2-T5	13.92	9.59	13.31	9.64	12.84	9.23	14.70	11.87
2Y. Sagittal T2-T5	14.33	9.94	12.40	9.87	12.68	9.19	16.11	11.27
5Y. Sagittal T2-T5	15.76	11.63	14.15	11.13	15.22	10.41	17.54	15.18
	4.mean	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3	p.val_1.4	
Sagittal T2-T5	11.17	9.30	11.19	10.42	0.1890	0.6662	0.4379	
6W. Sagittal T2-T5	11.97	6.85	15.64	9.38	0.7646	0.6175	0.2341	
6M. Sagittal T2-T5	13.30	7.18	15.81	8.54	0.8437	0.7429	0.5553	
1Y. Sagittal T2-T5	14.42	8.67	16.53	7.48	0.7722	0.5178	0.5476	
2Y. Sagittal T2-T5	15.47	9.16	17.14	10.25	0.8719	0.0885	0.1186	
5Y. Sagittal T2-T5	17.93	11.76	13.88	9.99	0.7025	0.3769	0.2853	
	p.val_1.5	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4	p.val_3.5		
Sagittal T2-T5	0.5434	0.5021	0.6980	0.7744	0.7799	0.8155		
6W. Sagittal T2-T5	0.3461	0.3936	0.2455	0.1992	0.1038	0.6334		
6M. Sagittal T2-T5	0.4502	0.8449	0.6232	0.2886	0.8748	0.3093		
1Y. Sagittal T2-T5	0.0990	0.3185	0.2938	0.0253	0.8916	0.3895		
2Y. Sagittal T2-T5	0.0441	0.0658	0.0830	0.0318	0.7546	0.6664		
5Y. Sagittal T2-T5	0.9377	0.4782	0.3514	0.6332	0.9198	0.3405		
	p.val_4.5	p.val_all						
Sagittal T2-T5	0.9945	0.8170						
6W. Sagittal T2-T5	0.0538	0.2700						
6M. Sagittal T2-T5	0.1520	0.7976						
1Y. Sagittal T2-T5	0.2487	0.3589						
2Y. Sagittal T2-T5	0.4506	0.0540						
5Y. Sagittal T2-T5	0.2530	0.6749						

	t0	t1	1	2	3	4	5	All
1: Preop 2Y	0.1753	0.4840	0.0098	0.0160	0.0205	0.0001		
2: Preop 5Y	0.1220	0.0382	0.0391	0.0210	0.3750	0.0000		
3: Preop 6W	0.0157	0.1711	0.0372	0.6026	0.0663	0.0003		
4:   6W 2Y	0.4698	0.5745	0.4781	0.0301	0.5344	0.3771		
5:   6W 5Y	0.8852	0.2301	0.3725	0.0346	0.5493	0.0525		
6:   2Y 5Y	0.5410	0.1312	0.6693	0.3897	0.2861	0.2119		

[1] "Sagittal T5-T12"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd
Sagittal T5-T12	32.91	18.82	29.36	18.97	32.37	17.88	32.25	18.30

6W. Sagittal T5-T12	33.74	13.83	34.13	13.00	35.31	13.78	36.00	12.79
6M. Sagittal T5-T12	34.66	13.88	36.88	13.25	35.37	13.85	37.34	13.61
1Y. Sagittal T5-T12	35.43	13.85	39.10	12.11	35.34	14.54	37.85	13.79
2Y. Sagittal T5-T12	36.18	15.75	37.97	14.42	38.92	18.75	37.17	15.11
5Y. Sagittal T5-T12	40.10	16.53	43.78	14.27	40.65	16.49	44.81	15.15
	4.mean	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3	p.val_1.4	
Sagittal T5-T12	37.39	20.98	34.23	18.41	0.2974	0.3907	0.0271	
6W. Sagittal T5-T12	32.00	15.36	26.65	12.28	0.5931	0.4545	0.4374	
6M. Sagittal T5-T12	33.81	14.33	26.47	12.02	0.5067	0.8635	0.2510	
1Y. Sagittal T5-T12	33.56	14.17	29.13	11.30	0.0920	0.6287	0.0380	
2Y. Sagittal T5-T12	32.91	12.42	29.52	11.19	0.7395	0.7921	0.0680	
5Y. Sagittal T5-T12	36.99	19.37	29.93	13.81	0.4151	0.8086	0.1971	
	p.val_1.5	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4	p.val_3.5		
Sagittal T5-T12	0.2166	0.9681	0.1032	0.5881	0.1472	0.6084		
6W. Sagittal T5-T12	0.0100	0.7510	0.1743	0.0011	0.1385	0.0012		
6M. Sagittal T5-T12	0.0003	0.3930	0.5001	0.0005	0.1915	0.0002		
1Y. Sagittal T5-T12	0.0003	0.2898	0.4619	0.0128	0.1229	0.0023		
2Y. Sagittal T5-T12	0.0045	0.5424	0.0217	0.0009	0.1215	0.0094		
5Y. Sagittal T5-T12	0.0046	0.2524	0.4393	0.0117	0.1277	0.0018		
	p.val_4.5	p.val_all						
Sagittal T5-T12	0.4383	0.1914						
6W. Sagittal T5-T12	0.0773	0.0145						
6M. Sagittal T5-T12	0.0103	0.0028						
1Y. Sagittal T5-T12	0.1197	0.0127						
2Y. Sagittal T5-T12	0.1967	0.0181						
5Y. Sagittal T5-T12	0.1922	0.0291						

	t0	t1	1	2	3	4	5	All
1: Preop 2Y	0.0089	0.0085	0.1204	0.1589	0.1999	0.0174		
2: Preop 5Y	0.0007	0.0024	0.0012	0.9364	0.3490	0.0000		
3: Preop 6W	0.1180	0.1426	0.1985	0.1099	0.0479	0.5127		
4: 6W 2Y	0.1716	0.1222	0.6677	0.7334	0.3277	0.0475		
5: 6W 5Y	0.0111	0.0380	0.0113	0.2865	0.4172	0.0001		
6: 2Y 5Y	0.1310	0.5548	0.0362	0.3691	0.9171	0.0197		

[1] "Sagittal T2-T12"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd
Sagittal T2-T12	39.93	19.68	35.77	21.37	39.91	18.45	40.27	19.30
6W. Sagittal T2-T12	43.16	15.31	42.13	15.63	45.48	13.82	46.84	14.87
6M. Sagittal T2-T12	44.77	15.26	47.31	15.20	44.54	14.32	48.90	17.79
1Y. Sagittal T2-T12	44.92	15.31	47.78	15.21	44.57	14.92	47.84	17.38
2Y. Sagittal T2-T12	45.64	15.57	44.82	15.52	45.98	15.51	49.21	17.78
5Y. Sagittal T2-T12	49.45	16.87	51.21	14.13	50.95	15.89	52.61	20.93
	4.mean	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3	p.val_1.4	
Sagittal T2-T12	44.24	20.56	39.19	19.71	0.1901	0.2191	0.0262	
6W. Sagittal T2-T12	40.01	17.05	36.32	14.71	0.1877	0.1154	0.5014	
6M. Sagittal T2-T12	43.60	14.62	38.08	13.43	0.2734	0.6298	0.2003	
1Y. Sagittal T2-T12	43.23	14.55	39.99	13.35	0.2192	0.9843	0.1282	
2Y. Sagittal T2-T12	44.20	14.15	42.34	13.81	0.6810	0.1953	0.8403	
5Y. Sagittal T2-T12	47.46	16.72	39.83	14.07	0.9450	0.7829	0.4310	
	p.val_1.5	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4	p.val_3.5		

Sagittal T2-T12	0.4163	0.9033	0.1598	0.8408	0.2676	0.7899
6W. Sagittal T2-T12	0.0847	0.5738	0.0395	0.0021	0.0270	0.0017
6M. Sagittal T2-T12	0.0035	0.1275	0.6917	0.0149	0.0966	0.0016
1Y. Sagittal T2-T12	0.0159	0.2416	0.5879	0.0944	0.1432	0.0200
2Y. Sagittal T2-T12	0.4561	0.2697	0.4861	0.2062	0.1148	0.0468
5Y. Sagittal T2-T12	0.0185	0.7160	0.4048	0.0096	0.3428	0.0199

	p.val_4.5	p.val_all
Sagittal T2-T12	0.2250	0.2128
6W. Sagittal T2-T12	0.2806	0.0040
6M. Sagittal T2-T12	0.0634	0.0125
1Y. Sagittal T2-T12	0.2926	0.0962
2Y. Sagittal T2-T12	0.5477	0.2971
5Y. Sagittal T2-T12	0.1309	0.1116

	t0	t1	1	2	3	4	5	All
1: Preop	2Y	0.0126	0.0074	0.0107	0.9914	0.4318	0.0000	
2: Preop	5Y	0.0004	0.0001	0.0118	0.4706	0.8921	0.0000	
3: Preop	6W	0.0696	0.0070	0.0400	0.2246	0.4824	0.0172	
4:	6W 2Y	0.3984	0.8093	0.4567	0.1675	0.0864	0.0527	
5:	6W 5Y	0.0206	0.0293	0.2077	0.0862	0.4134	0.0002	
6:	2Y 5Y	0.1049	0.0617	0.4737	0.4308	0.5500	0.0245	

[1] "Lordosis (top of L1-S1)"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean
Lordosis (top of L1-S1)	-43.79	20.39	-29.95	17.51	-45.68	17.08	-32.81
6W. Lordosis (top of L1-S1)	-51.20	14.22	-46.98	15.43	-51.76	13.28	-49.95
6M. Lordosis (top of L1-S1)	-50.88	14.30	-48.14	15.11	-50.59	12.88	-46.07
1Y. Lordosis (top of L1-S1)	-51.16	14.46	-45.60	14.29	-51.92	13.30	-47.19
2Y. Lordosis (top of L1-S1)	-51.59	15.20	-45.47	17.65	-52.69	13.97	-46.87
5Y. Lordosis (top of L1-S1)	-50.64	15.97	-44.96	14.82	-49.87	16.53	-49.25
	3.sd	4.mean	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3
Lordosis (top of L1-S1)	19.24	-56.41	19.77	-56.43	15.14	0.0000	0.3828
6W. Lordosis (top of L1-S1)	15.56	-54.99	14.48	-51.80	11.31	0.0394	0.3074
6M. Lordosis (top of L1-S1)	17.04	-56.75	12.62	-53.72	12.61	0.2920	0.5004
1Y. Lordosis (top of L1-S1)	16.62	-56.20	13.03	-55.34	13.43	0.0070	0.5949
2Y. Lordosis (top of L1-S1)	16.23	-56.70	12.21	-56.26	13.24	0.0157	0.6795
5Y. Lordosis (top of L1-S1)	14.85	-59.72	14.96	-50.83	15.31	0.2135	0.3225
	p.val_1.4	p.val_1.5	p.val_2.3	p.val_2.4	p.val_2.5		
Lordosis (top of L1-S1)	0.0000	0.0000	0.0000	0.0002	0.0004		
6W. Lordosis (top of L1-S1)	0.0037	0.0785	0.4554	0.1425	0.9835		
6M. Lordosis (top of L1-S1)	0.0012	0.0563	0.0847	0.0026	0.1916		
1Y. Lordosis (top of L1-S1)	0.0001	0.0019	0.0652	0.0464	0.1932		
2Y. Lordosis (top of L1-S1)	0.0005	0.0022	0.0278	0.0683	0.1788		
5Y. Lordosis (top of L1-S1)	0.0023	0.2416	0.8599	0.0143	0.8252		
	p.val_3.4	p.val_3.5	p.val_4.5	p.val_all			
Lordosis (top of L1-S1)	0.0000	0.0000	0.9952	0.0000			
6W. Lordosis (top of L1-S1)	0.0761	0.5118	0.2282	0.0332			
6M. Lordosis (top of L1-S1)	0.0003	0.0159	0.2552	0.0005			
1Y. Lordosis (top of L1-S1)	0.0020	0.0131	0.7676	0.0002			
2Y. Lordosis (top of L1-S1)	0.0006	0.0037	0.8749	0.0001			
5Y. Lordosis (top of L1-S1)	0.0176	0.7357	0.0783	0.0362			



	t0	t1	1	2	3	4	5	All
1: Preop	2Y	0.0000	0.0005	0.0000	0.9213	0.9591	0.0000	
2: Preop	5Y	0.0004	0.1087	0.0000	0.4138	0.2180	0.0001	
3: Preop	6W	0.0000	0.0012	0.0000	0.6430	0.1375	0.0000	
4:	6W 2Y	0.6426	0.6063	0.3172	0.4960	0.1302	0.7430	
5:	6W 5Y	0.5982	0.4432	0.8430	0.2080	0.8170	0.7105	
6:	2Y 5Y	0.9035	0.2736	0.5085	0.4098	0.2209	0.5499	

[1] "Pelvic Incidence"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd
Pelvic Incidence	54.11	13.05	60.40	14.17	52.87	12.45	55.85	13.73
6W. Pelvic Incidence	54.15	12.92	59.33	14.77	53.61	12.47	56.27	13.25
6M. Pelvic Incidence	53.99	12.65	58.78	14.37	53.55	12.11	54.70	13.44
1Y. Pelvic Incidence	53.66	12.57	56.77	13.28	53.36	12.59	56.59	12.86
2Y. Pelvic Incidence	53.75	12.42	57.54	14.20	53.19	11.90	56.40	13.54
5Y. Pelvic Incidence	54.90	12.41	55.60	14.69	54.09	12.34	58.62	12.57

  

	4.mean	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3	p.val_1.4
Pelvic Incidence	50.12	11.51	51.66	10.57	0.0004	0.0671	0.0000
6W. Pelvic Incidence	50.20	11.16	50.65	10.22	0.0106	0.2460	0.0002
6M. Pelvic Incidence	50.94	11.47	51.77	10.32	0.0181	0.1249	0.0015
1Y. Pelvic Incidence	50.11	11.25	50.96	11.31	0.1144	0.9433	0.0061
2Y. Pelvic Incidence	49.73	10.51	52.12	10.29	0.0716	0.6799	0.0027
5Y. Pelvic Incidence	54.07	11.03	51.76	10.83	0.6769	0.4539	0.7016

  

	p.val_1.5	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4
Pelvic Incidence	0.0006	0.1447	0.1249	0.5539	0.0121
6W. Pelvic Incidence	0.0011	0.2103	0.0626	0.1513	0.0101
6M. Pelvic Incidence	0.0069	0.5937	0.1610	0.3784	0.1178
1Y. Pelvic Incidence	0.0306	0.1232	0.0902	0.2836	0.0063
2Y. Pelvic Incidence	0.0498	0.1459	0.0680	0.6183	0.0055
5Y. Pelvic Incidence	0.3598	0.1204	0.9926	0.4542	0.1794

  

	p.val_3.5	p.val_4.5	p.val_all
Pelvic Incidence	0.0911	0.4951	0.0000
6W. Pelvic Incidence	0.0269	0.8438	0.0005
6M. Pelvic Incidence	0.2461	0.7149	0.0099
1Y. Pelvic Incidence	0.0327	0.7306	0.0152
2Y. Pelvic Incidence	0.0976	0.2989	0.0101
5Y. Pelvic Incidence	0.0601	0.5167	0.4062

	t0	t1	1	2	3	4	5	All
1: Preop	2Y	0.2950	0.8432	0.8289	0.8491	0.8534	0.7170	
2: Preop	5Y	0.1980	0.5271	0.3499	0.1601	0.9767	0.5238	
3: Preop	6W	0.6798	0.6253	0.8664	0.9672	0.6799	0.9695	
4:	6W 2Y	0.5271	0.7906	0.9610	0.8180	0.5525	0.6936	
5:	6W 5Y	0.3242	0.8059	0.4341	0.1702	0.7271	0.5476	
6:	2Y 5Y	0.6137	0.6507	0.4627	0.1251	0.9086	0.3628	

[1] "Pelvic Tilt"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	4.mean
Pelvic Tilt	21.99	10.97	30.59	8.22	21.31	10.44	27.72	8.21	13.45
6W. Pelvic Tilt	18.18	9.64	23.33	9.50	18.12	9.04	22.18	8.79	11.75
6M. Pelvic Tilt	19.60	10.05	25.06	8.12	19.75	9.65	24.40	9.47	12.45
1Y. Pelvic Tilt	19.40	10.25	25.08	7.97	19.19	10.40	24.32	8.30	12.44
2Y. Pelvic Tilt	19.25	9.43	25.05	7.61	19.30	8.63	24.20	8.37	12.42
5Y. Pelvic Tilt	21.93	9.91	25.75	8.28	22.95	9.05	27.04	8.52	13.30

  

	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3	p.val_1.4	p.val_1.5
Pelvic Tilt	7.91	13.93	8.55	0.0000	0.0500	0	0.0000
6W. Pelvic Tilt	8.20	14.07	7.71	0.0005	0.5032	0	0.0000
6M. Pelvic Tilt	9.18	14.45	7.02	0.0002	0.6934	0	0.0000
1Y. Pelvic Tilt	8.36	14.27	9.42	0.0001	0.6305	0	0.0000
2Y. Pelvic Tilt	8.28	13.66	7.43	0.0001	0.5962	0	0.0000
5Y. Pelvic Tilt	8.71	16.44	9.42	0.2017	0.5960	0	0.0031

  

	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4	p.val_3.5	p.val_4.5
Pelvic Tilt	0.0000	0e+00	0.0000	0	0e+00	0.7791
6W. Pelvic Tilt	0.0056	0e+00	0.0100	0	0e+00	0.1739
6M. Pelvic Tilt	0.0036	0e+00	0.0004	0	0e+00	0.2387
1Y. Pelvic Tilt	0.0006	0e+00	0.0099	0	0e+00	0.3540
2Y. Pelvic Tilt	0.0009	0e+00	0.0005	0	0e+00	0.4721
5Y. Pelvic Tilt	0.0448	1e-04	0.0179	0	6e-04	0.2946

  

	p.val_all
Pelvic Tilt	0
6W. Pelvic Tilt	0
6M. Pelvic Tilt	0
1Y. Pelvic Tilt	0
2Y. Pelvic Tilt	0
5Y. Pelvic Tilt	0

  

	t0	t1	1	2	3	4	5	All
1: Preop 2Y	0.0004	0.1084	0.0242	0.5044	0.8878	0.0007		
2: Preop 5Y	0.0258	0.2720	0.7262	0.9455	0.3584	0.9521		
3: Preop 6W	0.0000	0.0082	0.0007	0.2519	0.9425	0.0000		
4: 6W 2Y	0.3023	0.3141	0.2242	0.6695	0.8239	0.1633		
5: 6W 5Y	0.2750	0.0009	0.0186	0.4751	0.3766	0.0001		
6: 2Y 5Y	0.7422	0.0140	0.1555	0.6905	0.2989	0.0072		

[1] "Sacral Slope"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	4.mean
Sacral Slope	32.56	11.12	30.19	11.42	32.27	11.04	28.08	11.06	37.00
6W. Sacral Slope	35.90	10.13	35.78	11.48	35.44	9.36	34.00	12.20	38.36
6M. Sacral Slope	34.37	10.03	33.55	12.00	33.61	9.26	30.28	10.78	38.74
1Y. Sacral Slope	34.30	9.66	31.47	10.15	34.12	9.22	32.28	9.93	37.99
2Y. Sacral Slope	34.58	10.38	32.58	12.03	34.02	9.35	32.18	11.37	37.38
5Y. Sacral Slope	32.97	10.72	29.85	11.40	31.14	10.28	31.58	10.66	40.81

  

	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3	p.val_1.4	p.val_1.5
Sacral Slope	9.78	37.61	8.82	0.2256	0.2941	0.0004	0.0004
6W. Sacral Slope	8.97	36.51	8.48	0.8389	0.4240	0.1740	0.7247
6M. Sacral Slope	8.02	37.24	7.91	0.9711	0.1341	0.0072	0.0738
1Y. Sacral Slope	8.54	36.68	9.86	0.1050	0.6730	0.0005	0.0189
2Y. Sacral Slope	9.39	38.52	9.08	0.4706	0.8625	0.0308	0.0134

5Y. Sacral Slope	9.89	35.32	7.97	0.6504	0.5928	0.0017	0.0911
	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4	p.val_3.5	p.val_4.5	
Sacral Slope	0.0142	0.0026	0.0026	0.0000	0.0000	0.7475	
6W. Sacral Slope	0.4385	0.0417	0.5151	0.0337	0.2527	0.3142	
6M. Sacral Slope	0.0528	0.0002	0.0213	0.0000	0.0007	0.3714	
1Y. Sacral Slope	0.2460	0.0077	0.1737	0.0017	0.0431	0.5229	
2Y. Sacral Slope	0.3092	0.0385	0.0161	0.0116	0.0050	0.5770	
5Y. Sacral Slope	0.8585	0.0004	0.0847	0.0027	0.1872	0.0628	
	p.val_all						
Sacral Slope	0.0000						
6W. Sacral Slope	0.2115						
6M. Sacral Slope	0.0001						
1Y. Sacral Slope	0.0017						
2Y. Sacral Slope	0.0080						
5Y. Sacral Slope	0.0018						

	t0	t1	1	2	3	4	5	All
1: Preop 2Y	0.2921	0.1858	0.0520	0.8310	0.6677	0.0172		
2: Preop 5Y	0.9077	0.4928	0.1598	0.1265	0.3489	0.7005		
3: Preop 6W	0.0075	0.0116	0.0075	0.4214	0.5859	0.0000		
4: 6W 2Y	0.1670	0.2554	0.4246	0.5768	0.3419	0.1096		
5: 6W 5Y	0.0481	0.0073	0.3578	0.3147	0.6242	0.0053		
6: 2Y 5Y	0.3749	0.0799	0.8143	0.1745	0.2060	0.1360		

[1] "RLL"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	4.mean	4.sd
RLL	-18.81	20.26	-36.57	13.35	-16.10	16.28	-30.81	18.11	-3.40	17.68
6W. RLL	-11.30	13.07	-18.84	12.86	-10.46	12.37	-13.94	12.33	-4.45	12.60
6M. RLL	-11.56	13.38	-17.09	11.83	-11.61	12.27	-16.63	15.43	-4.02	11.87
1Y. RLL	-11.22	13.90	-18.60	12.39	-10.16	13.08	-17.05	14.32	-3.97	11.78
2Y. RLL	-10.54	14.13	-18.88	13.86	-8.94	13.39	-17.09	13.93	-3.13	10.66
5Y. RLL	-12.40	14.34	-18.51	12.89	-12.66	14.11	-16.10	12.46	-2.80	13.43
	5.mean	5.sd	p.val_1.2	p.val_1.3	p.val_1.4	p.val_1.5	p.val_2.3			
RLL	-4.45	16.02	0.0000	0.0441	0e+00	0.0000	0.0000			
6W. RLL	-8.78	10.81	0.0000	0.0401	0e+00	0.0001	0.0848			
6M. RLL	-7.38	11.75	0.0049	0.8616	0e+00	0.0002	0.0385			
1Y. RLL	-5.42	12.77	0.0001	0.5488	0e+00	0.0000	0.0032			
2Y. RLL	-4.96	12.06	0.0001	0.5241	0e+00	0.0000	0.0006			
5Y. RLL	-10.26	15.59	0.0898	0.5142	3e-04	0.0898	0.2548			
	p.val_2.4	p.val_2.5	p.val_3.4	p.val_3.5	p.val_4.5	p.val_all				
RLL	0.0000	0.0002	0e+00	0.0000	0.7602	0.0000				
6W. RLL	0.0030	0.4318	1e-04	0.0407	0.0825	0.0000				
6M. RLL	0.0001	0.0610	0e+00	0.0018	0.1804	0.0000				
1Y. RLL	0.0026	0.0616	0e+00	0.0002	0.5977	0.0000				
2Y. RLL	0.0041	0.1105	0e+00	0.0000	0.4734	0.0000				
5Y. RLL	0.0061	0.5724	8e-04	0.2004	0.1261	0.0024				

	t0	t1	1	2	3	4	5	All
1: Preop 2Y	0.0000	0.0002	0.0000	0.9184	0.8799	0.0000		
2: Preop 5Y	0.0000	0.1371	0.0000	0.8697	0.2171	0.0001		
3: Preop 6W	0.0000	0.0015	0.0000	0.7053	0.1818	0.0000		

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4:    6W 2Y 0.9898 0.3748 0.2156 0.5533 0.1710 0.4850
5:    6W 5Y 0.9198 0.3047 0.4589 0.6224 0.7284 0.4275
6:    2Y 5Y 0.9169 0.1028 0.7428 0.9207 0.2303 0.1988

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[1] "Global Tilt"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	4.mean
Global Tilt	26.29	17.73	44.43	13.30	23.12	14.64	38.32	13.42	11.67
6W. Global Tilt	18.64	12.13	26.10	11.87	18.67	11.33	24.07	10.77	10.66
6M. Global Tilt	20.43	13.71	28.11	12.52	20.61	12.56	27.11	13.29	11.05
1Y. Global Tilt	20.75	13.96	30.03	11.95	19.34	13.62	28.51	11.62	11.35
2Y. Global Tilt	20.89	13.98	30.70	10.90	20.37	11.51	29.75	12.90	10.01
5Y. Global Tilt	24.89	14.93	32.78	15.67	25.25	13.47	33.16	12.33	12.78

  

	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3	p.val_1.4	p.val_1.5
Global Tilt	10.13	10.76	8.87	0.0000	0.0129	0	0.0000
6W. Global Tilt	9.73	10.53	8.11	0.0003	0.3645	0	0.0000
6M. Global Tilt	10.60	12.15	11.07	0.0006	0.6953	0	0.0000
1Y. Global Tilt	10.96	12.50	9.85	0.0000	0.5258	0	0.0000
2Y. Global Tilt	11.06	11.43	11.03	0.0000	0.6964	0	0.0000
5Y. Global Tilt	10.41	15.96	13.51	0.0592	0.9258	0	0.0011

  

	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4	p.val_3.5	p.val_4.5
Global Tilt	0.0000	0e+00	0.0000	0	0e+00	0.6463
6W. Global Tilt	0.0040	0e+00	0.0000	0	0e+00	0.9450
6M. Global Tilt	0.0041	0e+00	0.0005	0	0e+00	0.6530
1Y. Global Tilt	0.0000	2e-04	0.0029	0	0e+00	0.6392
2Y. Global Tilt	0.0000	0e+00	0.0002	0	0e+00	0.5711
5Y. Global Tilt	0.0087	1e-04	0.0192	0	2e-04	0.4278

  

	p.val_all
Global Tilt	0
6W. Global Tilt	0
6M. Global Tilt	0
1Y. Global Tilt	0
2Y. Global Tilt	0
5Y. Global Tilt	0

	t0	t1	1	2	3	4	5	All
1: Preop 2Y	0.0000	0.1177	0.0007	0.4258	0.7821	0.0000		
2: Preop 5Y	0.0048	0.3272	0.0794	0.6712	0.1605	0.3675		
3: Preop 6W	0.0000	0.0077	0.0000	0.5991	0.9098	0.0000		
4: 6W 2Y	0.0521	0.2906	0.0165	0.7562	0.7079	0.0418		
5: 6W 5Y	0.0896	0.0018	0.0019	0.4213	0.1425	0.0000		
6: 2Y 5Y	0.5887	0.0240	0.2500	0.3156	0.2427	0.0080		

[1] "T1 Sagittal Tilt"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	4.mean
T1 Sagittal Tilt	-1.86	6.15	3.77	6.85	-4.02	3.82	2.22	6.77	-4.56
6W. T1 Sagittal Tilt	-3.59	4.01	-2.12	4.34	-3.89	3.91	-3.37	4.19	-3.71
6M. T1 Sagittal Tilt	-4.12	4.30	-3.05	4.96	-4.62	3.93	-2.52	5.26	-4.91
1Y. T1 Sagittal Tilt	-3.88	5.00	-2.85	5.43	-4.33	4.86	-2.11	5.36	-4.47

2Y. T1 Sagittal Tilt	-3.63	4.47	-1.59	5.03	-4.32	3.84	-1.39	5.60	-5.30
5Y. T1 Sagittal Tilt	-2.75	4.89	-0.09	8.09	-3.81	3.84	-0.99	4.43	-3.48
	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3	p.val_1.4	p.val_1.5		
T1 Sagittal Tilt	4.27	-5.27	3.26	0.0000	0.2349	0.0000	0.0000		
6W. T1 Sagittal Tilt	4.08	-4.98	2.75	0.0199	0.1654	0.0723	0.0008		
6M. T1 Sagittal Tilt	3.47	-5.21	3.04	0.0526	0.6133	0.0321	0.0163		
1Y. T1 Sagittal Tilt	4.90	-5.72	3.24	0.1293	0.5228	0.1568	0.0079		
2Y. T1 Sagittal Tilt	3.03	-5.16	3.04	0.0022	0.8591	0.0001	0.0003		
5Y. T1 Sagittal Tilt	3.80	-4.36	2.75	0.0541	0.6477	0.0931	0.0327		
	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4	p.val_3.5				
T1 Sagittal Tilt	0.0000	0.4199	0.0585	0.0000	0.0000				
6W. T1 Sagittal Tilt	0.4802	0.8079	0.0917	0.6911	0.0497				
6M. T1 Sagittal Tilt	0.0168	0.6412	0.3763	0.0104	0.0052				
1Y. T1 Sagittal Tilt	0.0166	0.8753	0.0766	0.0325	0.0005				
2Y. T1 Sagittal Tilt	0.0026	0.1065	0.2234	0.0001	0.0004				
5Y. T1 Sagittal Tilt	0.0058	0.7329	0.5199	0.0402	0.0031				
	p.val_4.5	p.val_all							
T1 Sagittal Tilt	0.3709	0.0000							
6W. T1 Sagittal Tilt	0.1130	0.0322							
6M. T1 Sagittal Tilt	0.6877	0.0045							
1Y. T1 Sagittal Tilt	0.2060	0.0108							
2Y. T1 Sagittal Tilt	0.8396	0.0000							
5Y. T1 Sagittal Tilt	0.4163	0.0039							

	t0 t1	1	2	3	4	5	All
1: Preop	2Y	0.0000	0.5627	0.0042	0.3091	0.8818	0.0001
2: Preop	5Y	0.0623	0.7404	0.0106	0.2910	0.2973	0.0932
3: Preop	6W	0.0000	0.8032	0.0000	0.3112	0.6982	0.0000
4:	6W 2Y	0.5973	0.4309	0.0631	0.0373	0.8139	0.9135
5:	6W 5Y	0.2908	0.9071	0.0269	0.8211	0.4641	0.0780
6:	2Y 5Y	0.4418	0.4278	0.7404	0.0624	0.3603	0.0758

[1] "Thoracolumbar L2-T10"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd
Thoracolumbar L2-T10	10.03	20.48	9.05	19.69	11.51	20.98	12.01	19.20
6W. Thoracolumbar L2-T10	4.91	12.50	8.71	11.61	5.00	13.08	7.37	10.07
6M. Thoracolumbar L2-T10	5.08	12.15	8.50	10.37	5.98	11.53	6.98	9.83
1Y. Thoracolumbar L2-T10	5.27	12.67	9.18	10.64	6.88	12.43	7.36	11.02
2Y. Thoracolumbar L2-T10	6.07	12.79	7.80	13.78	7.66	12.40	8.45	11.79
5Y. Thoracolumbar L2-T10	7.26	14.64	11.75	16.10	7.98	13.44	10.45	12.40
	4.mean	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3		
Thoracolumbar L2-T10	8.47	21.82	5.46	19.68	0.4355	0.4036		
6W. Thoracolumbar L2-T10	0.09	11.77	2.75	13.91	0.0707	0.5323		
6M. Thoracolumbar L2-T10	1.36	15.45	-0.61	11.73	0.1650	0.4521		
1Y. Thoracolumbar L2-T10	0.48	14.86	-1.83	10.37	0.2340	0.4034		
2Y. Thoracolumbar L2-T10	1.05	13.22	2.81	11.29	0.9529	0.8041		
5Y. Thoracolumbar L2-T10	-2.76	12.13	6.98	18.39	0.3453	0.7610		
	p.val_1.4	p.val_1.5	p.val_2.3	p.val_2.4	p.val_2.5			
Thoracolumbar L2-T10	0.8795	0.3912	0.8682	0.3598	0.1122			
6W. Thoracolumbar L2-T10	0.0003	0.0391	0.2041	0.0171	0.3955			
6M. Thoracolumbar L2-T10	0.0079	0.0006	0.5679	0.0618	0.0061			

1Y. Thoracolumbar L2-T10	0.0010	0.0000	0.8077	0.0086	0.0002
2Y. Thoracolumbar L2-T10	0.0169	0.0816	0.7037	0.0047	0.0430
5Y. Thoracolumbar L2-T10	0.0020	0.4075	0.4027	0.0014	0.8373
	p.val_3.4	p.val_3.5	p.val_4.5	p.val_all	
Thoracolumbar L2-T10	0.3377	0.1131	0.4826	0.4697	
6W. Thoracolumbar L2-T10	0.0009	0.0932	0.3497	0.0031	
6M. Thoracolumbar L2-T10	0.0328	0.0032	0.5110	0.0011	
1Y. Thoracolumbar L2-T10	0.0091	0.0003	0.4050	0.0000	
2Y. Thoracolumbar L2-T10	0.0039	0.0307	0.5209	0.0074	
5Y. Thoracolumbar L2-T10	0.0004	0.4973	0.0700	0.0069	

	t0	t1	1	2	3	4	5	All
1: Preop 2Y	0.7037	0.0848	0.2274	0.0282	0.4919	0.0032		
2: Preop 5Y	0.5379	0.1660	0.6460	0.0041	0.7846	0.0907		
3: Preop 6W	0.9129	0.0033	0.1018	0.0100	0.5037	0.0001		
4: 6W 2Y	0.7261	0.1349	0.6175	0.7002	0.9853	0.2713		
5: 6W 5Y	0.4395	0.1682	0.2645	0.3561	0.4083	0.0955		
6: 2Y 5Y	0.3375	0.8827	0.4860	0.2407	0.4011	0.4062		

[1] "RSA"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	4.mean	4.sd
RSA	15.26	15.41	30.54	11.95	12.66	12.71	26.40	11.11	2.46	8.65
6W. RSA	7.59	9.53	12.84	8.94	7.76	8.81	12.02	8.99	1.43	7.79
6M. RSA	9.46	10.88	15.12	10.17	9.71	9.42	15.62	10.56	1.63	8.07
1Y. RSA	9.81	11.07	17.91	9.07	8.54	10.32	16.16	9.23	1.97	8.66
2Y. RSA	10.09	11.67	18.11	9.00	9.65	8.85	17.87	11.23	1.11	9.23
5Y. RSA	13.54	12.84	21.09	12.42	14.28	11.57	20.03	10.37	1.83	9.61
	5.mean	5.sd	p.val_1.2	p.val_1.3	p.val_1.4	p.val_1.5	p.val_2.3			
RSA	0.96	6.94	0.0000	0.0500		0	0e+00	0.0000		
6W. RSA	1.29	7.03	0.0010	0.6417		0	0e+00	0.0055		
6M. RSA	2.46	9.57	0.0018	0.8098		0	0e+00	0.0010		
1Y. RSA	2.90	8.55	0.0000	0.3476		0	0e+00	0.0000		
2Y. RSA	1.67	9.97	0.0000	0.9084		0	0e+00	0.0000		
5Y. RSA	6.12	11.19	0.0353	0.7528		0	4e-04	0.0237		
	p.val_2.4	p.val_2.5	p.val_3.4	p.val_3.5	p.val_4.5	p.val_all				
RSA	0e+00	0.0000		0	0e+00	0.3575		0		
6W. RSA	0e+00	0.0001		0	0e+00	0.9339		0		
6M. RSA	0e+00	0.0004		0	0e+00	0.6848		0		
1Y. RSA	1e-04	0.0034		0	0e+00	0.6486		0		
2Y. RSA	0e+00	0.0002		0	0e+00	0.7993		0		
5Y. RSA	0e+00	0.0140		0	2e-04	0.2160		0		

	t0	t1	1	2	3	4	5	All
1: Preop 2Y	0.0000	0.0374	0.0001	0.4439	0.7339	0.0000		
2: Preop 5Y	0.0047	0.3840	0.0108	0.7905	0.0937	0.2017		
3: Preop 6W	0.0000	0.0005	0.0000	0.5176	0.8452	0.0000		
4: 6W 2Y	0.0054	0.1312	0.0042	0.8543	0.8598	0.0058		
5: 6W 5Y	0.0099	0.0003	0.0012	0.8646	0.1194	0.0000		
6: 2Y 5Y	0.3330	0.0101	0.3920	0.7710	0.1776	0.0072		

[1] "RPV"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	4.mean	4.sd	5.mean
RPV	-8.42	9.15	-14.74	6.97	-7.96	8.96	-13.87	6.63	-1.57	6.85	-1.83
6W. RPV	-5.03	7.61	-8.22	7.53	-5.20	6.84	-8.20	8.06	-0.07	6.58	-2.42
6M. RPV	-6.49	7.91	-10.14	6.96	-6.99	7.31	-10.99	7.54	-0.31	6.70	-2.31
1Y. RPV	-6.39	7.94	-11.03	6.15	-6.36	7.79	-10.10	6.42	-0.67	6.45	-2.38
2Y. RPV	-6.14	7.76	-10.37	6.82	-6.38	6.87	-10.10	7.03	-0.96	7.08	-1.23
5Y. RPV	-8.42	8.24	-11.95	6.44	-9.77	7.40	-12.01	7.16	-0.09	7.46	-4.21

  

	5.sd	p.val_1.2	p.val_1.3	p.val_1.4	p.val_1.5	p.val_2.3	p.val_2.4
RPV	6.97	0.0000	0.4698	0	0.0000	0.0000	0
6W. RPV	6.36	0.0092	0.9893	0	0.0001	0.0181	0
6M. RPV	5.31	0.0059	0.5370	0	0.0000	0.0015	0
1Y. RPV	7.79	0.0000	0.4460	0	0.0000	0.0011	0
2Y. RPV	6.41	0.0014	0.8446	0	0.0000	0.0020	0
5Y. RPV	7.07	0.2078	0.9771	0	0.0014	0.1833	0

  

	p.val_2.5	p.val_3.4	p.val_3.5	p.val_4.5	p.val_all
RPV	0.0000	0	0.0000	0.8557	0
6W. RPV	0.0279	0	0.0003	0.0917	0
6M. RPV	0.0000	0	0.0000	0.1111	0
1Y. RPV	0.0099	0	0.0000	0.2834	0
2Y. RPV	0.0002	0	0.0000	0.8523	0
5Y. RPV	0.0088	0	0.0011	0.0861	0

  

	t0	t1	1	2	3	4	5	All
1: Preop 2Y	0.0013	0.1251	0.0037	0.6396	0.7079	0.0006		
2: Preop 5Y	0.1003	0.1420	0.2486	0.4168	0.2569	0.9929		
3: Preop 6W	0.0000	0.0047	0.0001	0.2178	0.7096	0.0000		
4: 6W 2Y	0.1260	0.1914	0.1961	0.4969	0.4438	0.0718		
5: 6W 5Y	0.0350	0.0001	0.0328	0.9930	0.3825	0.0000		
6: 2Y 5Y	0.3632	0.0049	0.2538	0.6433	0.1541	0.0059		

## Quality of Life

[1] "ODI - Score (%)"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd
ODI - Score (%)	37.26	19.78	33.95	14.05	43.16	13.09	61.84	11.20
6M. ODI - Score (%)	28.30	17.97	23.15	13.54	30.65	16.54	45.19	18.30
1Y. ODI - Score (%)	25.72	18.07	23.92	15.29	27.71	16.69	44.66	15.57
2Y. ODI - Score (%)	27.53	21.27	25.20	21.02	29.41	18.47	50.35	19.33
5Y. ODI - Score (%)	28.33	21.38	26.84	20.73	30.48	19.72	49.02	19.14

  

	4.mean	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3	p.val_1.4
ODI - Score (%)	21.19	10.65	8.00	6.55	0.0000	0	0.0000
6M. ODI - Score (%)	20.50	13.75	13.29	10.51	0.0012	0	0.2968
1Y. ODI - Score (%)	15.88	12.12	8.22	6.73	0.1231	0	0.0019
2Y. ODI - Score (%)	15.22	12.42	8.72	7.75	0.1861	0	0.0021
5Y. ODI - Score (%)	15.42	12.59	8.36	6.49	0.3215	0	0.0035

  

	p.val_1.5	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4	p.val_3.5

ODI - Score (%)	0e+00	0	0	0	0	0
6M. ODI - Score (%)	2e-04	0	0	0	0	0
1Y. ODI - Score (%)	0e+00	0	0	0	0	0
2Y. ODI - Score (%)	0e+00	0	0	0	0	0
5Y. ODI - Score (%)	0e+00	0	0	0	0	0

	p.val_4.5	p.val_all
ODI - Score (%)	0.0000	0
6M. ODI - Score (%)	0.0063	0
1Y. ODI - Score (%)	0.0002	0
2Y. ODI - Score (%)	0.0023	0
5Y. ODI - Score (%)	0.0070	0

	t0	t1	1	2	3	4	5	All
1: Preop 2Y	0.0081	0.0000	0.0002	0.0060	0.6690	0.0000		
2: Preop 5Y	0.0497	0.0000	0.0003	0.0302	0.8275	0.0000		
3: Preop 6M	0.0000	0.0000	0.0000	0.7661	0.0146	0.0000		
4: 6M 2Y	0.5253	0.5710	0.1463	0.0331	0.0435	0.6108		
5: 6M 5Y	0.3003	0.9433	0.3259	0.0802	0.0274	0.9874		
6: 2Y 5Y	0.6901	0.6724	0.7388	0.9406	0.8383	0.6538		

[1] "SRS22 - Function / Activity"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean
SRS22 - Function / Activity	3.09	0.87	3.14	0.57	2.84	0.51	2.11
6M. SRS22 - Function / Activity	3.26	0.82	3.34	0.57	3.12	0.69	2.59
1Y. SRS22 - Function / Activity	3.40	0.89	3.39	0.63	3.26	0.77	2.59
2Y. SRS22 - Function / Activity	3.48	0.93	3.53	0.76	3.23	0.73	2.63
5Y. SRS22 - Function / Activity	3.50	0.91	3.49	0.77	3.43	0.76	2.67
	3.sd	4.mean	4.sd	5.mean	5.sd	p.val_1.2	
SRS22 - Function / Activity	0.52	3.68	0.66	4.54	0.36	0.0006	
6M. SRS22 - Function / Activity	0.73	3.58	0.78	4.17	0.67	0.0224	
1Y. SRS22 - Function / Activity	0.77	3.85	0.74	4.48	0.51	0.2225	
2Y. SRS22 - Function / Activity	0.85	4.14	0.73	4.46	0.46	0.0126	
5Y. SRS22 - Function / Activity	0.88	3.89	0.87	4.49	0.50	0.7049	
	p.val_1.3	p.val_1.4	p.val_1.5	p.val_2.3			
SRS22 - Function / Activity	0	0.0000	0	0			
6M. SRS22 - Function / Activity	0	0.0596	0	0			
1Y. SRS22 - Function / Activity	0	0.0004	0	0			
2Y. SRS22 - Function / Activity	0	0.0000	0	0			
5Y. SRS22 - Function / Activity	0	0.0333	0	0			
	p.val_2.4	p.val_2.5	p.val_3.4	p.val_3.5			
SRS22 - Function / Activity	0.0000	0	0	0			
6M. SRS22 - Function / Activity	0.0002	0	0	0			
1Y. SRS22 - Function / Activity	0.0000	0	0	0			
2Y. SRS22 - Function / Activity	0.0000	0	0	0			
5Y. SRS22 - Function / Activity	0.0079	0	0	0			
	p.val_4.5	p.val_all					
SRS22 - Function / Activity	0.0000	0					
6M. SRS22 - Function / Activity	0.0002	0					
1Y. SRS22 - Function / Activity	0.0000	0					
2Y. SRS22 - Function / Activity	0.0095	0					
5Y. SRS22 - Function / Activity	0.0012	0					



	t0	t1	1	2	3	4	5	All
1: Preop	2Y	0.0016	0.0000	0.0001	0.0005	0.4175	0.0000	
2: Preop	5Y	0.0122	0.0000	0.0005	0.2288	0.6538	0.0000	
3: Preop	6M	0.0561	0.0004	0.0001	0.4333	0.0040	0.0082	
4:	6M 2Y	0.1176	0.1885	0.8295	0.0001	0.0293	0.0013	
5:	6M 5Y	0.2786	0.0012	0.6438	0.0885	0.0283	0.0009	
6:	2Y 5Y	0.7699	0.0435	0.7954	0.1623	0.8179	0.7342	

[1] "SRS22 - Pain"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	4.mean
SRS22 - Pain	2.62	0.97	2.87	0.68	2.30	0.63	1.52	0.47	3.18
6M. SRS22 - Pain	3.42	0.90	3.79	0.69	3.30	0.85	2.79	0.90	3.56
1Y. SRS22 - Pain	3.57	0.98	3.85	0.77	3.43	0.95	2.68	0.99	3.92
2Y. SRS22 - Pain	3.49	1.09	3.85	0.91	3.32	1.04	2.51	1.08	3.93
5Y. SRS22 - Pain	3.38	1.13	3.65	1.02	3.22	1.06	2.50	1.09	3.77

  

	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3	p.val_1.4	p.val_1.5
SRS22 - Pain	0.61	4.28	0.49	0.0000	0	0.0084	0.0000
6M. SRS22 - Pain	0.90	4.04	0.63	0.0000	0	0.1183	0.0793
1Y. SRS22 - Pain	0.77	4.33	0.46	0.0015	0	0.5912	0.0002
2Y. SRS22 - Pain	0.86	4.29	0.53	0.0005	0	0.6195	0.0031
5Y. SRS22 - Pain	1.06	4.32	0.51	0.0217	0	0.6234	0.0004

  

	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4	p.val_3.5	p.val_4.5
SRS22 - Pain	0e+00	0.0000	0	0	0	0.0000
6M. SRS22 - Pain	4e-04	0.0679	0	0	0	0.0033
1Y. SRS22 - Pain	0e+00	0.0003	0	0	0	0.0020
2Y. SRS22 - Pain	0e+00	0.0001	0	0	0	0.0126
5Y. SRS22 - Pain	6e-04	0.0114	0	0	0	0.0103

  

	p.val_all
SRS22 - Pain	0
6M. SRS22 - Pain	0
1Y. SRS22 - Pain	0
2Y. SRS22 - Pain	0
5Y. SRS22 - Pain	0

	t0	t1	1	2	3	4	5	All
1: Preop	2Y	0.0000	0.0000	0.0000	0.0000	0.9279	0.0000	
2: Preop	5Y	0.0000	0.0000	0.0000	0.0046	0.7831	0.0000	
3: Preop	6M	0.0000	0.0000	0.0000	0.0092	0.0661	0.0000	
4:	6M 2Y	0.7036	0.8325	0.1421	0.0256	0.0623	0.3696	
5:	6M 5Y	0.4184	0.5528	0.1692	0.3416	0.0524	0.6041	
6:	2Y 5Y	0.3013	0.4641	0.9400	0.4476	0.8536	0.2191	

[1] "SRS22 - Self image / Appearance"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd
SRS22 - Self image / Appearance	2.42	0.76	2.47	0.64	2.43	0.69
6M. SRS22 - Self image / Appearance	3.48	0.83	3.72	0.64	3.36	0.81
1Y. SRS22 - Self image / Appearance	3.52	0.80	3.62	0.64	3.49	0.73

2Y. SRS22 - Self image / Appearance	3.43	0.93	3.57	0.81	3.34	0.83
5Y. SRS22 - Self image / Appearance	3.37	0.93	3.48	0.78	3.30	0.91
	3.mean	3.sd	4.mean	4.sd	5.mean	5.sd
SRS22 - Self image / Appearance	1.65	0.50	2.51	0.61	3.38	0.45
6M. SRS22 - Self image / Appearance	2.93	0.92	3.70	0.79	4.01	0.52
1Y. SRS22 - Self image / Appearance	2.82	0.87	3.84	0.74	4.04	0.52
2Y. SRS22 - Self image / Appearance	2.60	0.93	3.78	0.82	4.21	0.56
5Y. SRS22 - Self image / Appearance	2.60	0.87	3.74	0.85	4.10	0.53
	p.val_1.2	p.val_1.3	p.val_1.4	p.val_1.5		
SRS22 - Self image / Appearance	0.7397	0	0.7372	0.0000		
6M. SRS22 - Self image / Appearance	0.0010	0	0.8302	0.0169		
1Y. SRS22 - Self image / Appearance	0.2142	0	0.0970	0.0007		
2Y. SRS22 - Self image / Appearance	0.0735	0	0.1547	0.0000		
5Y. SRS22 - Self image / Appearance	0.2121	0	0.1795	0.0001		
	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4		
SRS22 - Self image / Appearance	0.0000	0.4719	0	0		
6M. SRS22 - Self image / Appearance	0.0029	0.0085	0	0		
1Y. SRS22 - Self image / Appearance	0.0000	0.0045	0	0		
2Y. SRS22 - Self image / Appearance	0.0000	0.0009	0	0		
5Y. SRS22 - Self image / Appearance	0.0001	0.0131	0	0		
	p.val_3.5	p.val_4.5	p.val_all			
SRS22 - Self image / Appearance	0	0.0000	0			
6M. SRS22 - Self image / Appearance	0	0.0204	0			
1Y. SRS22 - Self image / Appearance	0	0.1246	0			
2Y. SRS22 - Self image / Appearance	0	0.0037	0			
5Y. SRS22 - Self image / Appearance	0	0.0439	0			

	t0	t1	1	2	3	4	5	All
1: Preop 2Y	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2: Preop 5Y	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3: Preop 6M	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4: 6M 2Y	0.2486	0.8800	0.0573	0.5555	0.1320	0.4681		
5: 6M 5Y	0.0942	0.6216	0.0722	0.8249	0.5160	0.1429		
6: 2Y 5Y	0.5764	0.7228	0.9936	0.7884	0.4447	0.4427		

[1] "SRS22 - Mental health"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd
SRS22 - Mental health	3.17	0.86	3.82	0.66	3.03	0.73	2.26	0.65
6M. SRS22 - Mental health	3.55	0.85	4.07	0.65	3.40	0.87	2.95	0.88
1Y. SRS22 - Mental health	3.61	0.83	4.04	0.66	3.50	0.78	2.93	0.96
2Y. SRS22 - Mental health	3.51	0.94	3.99	0.76	3.42	0.96	2.68	0.97
5Y. SRS22 - Mental health	3.55	0.89	4.01	0.75	3.49	0.81	2.66	0.85
	4.mean	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3	p.val_1.4	
SRS22 - Mental health	3.14	0.53	4.16	0.49	0e+00	0	0.0000	
6M. SRS22 - Mental health	3.63	0.62	4.03	0.49	0e+00	0	0.0003	
1Y. SRS22 - Mental health	3.72	0.62	4.11	0.50	0e+00	0	0.0065	
2Y. SRS22 - Mental health	3.68	0.61	4.03	0.57	0e+00	0	0.0142	
5Y. SRS22 - Mental health	3.66	0.65	4.20	0.57	2e-04	0	0.0302	
	p.val_1.5	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4			
SRS22 - Mental health	0.0041	0.0000	0.2293	0	0			
6M. SRS22 - Mental health	0.7554	0.0016	0.0417	0	0			

1Y. SRS22 - Mental health	0.5738	0.0002	0.0442	0	0
2Y. SRS22 - Mental health	0.7613	0.0000	0.0282	0	0
5Y. SRS22 - Mental health	0.2330	0.0000	0.1946	0	0
	p.val_3.5	p.val_4.5	p.val_all		
SRS22 - Mental health	0	0.0000	0		
6M. SRS22 - Mental health	0	0.0009	0		
1Y. SRS22 - Mental health	0	0.0012	0		
2Y. SRS22 - Mental health	0	0.0051	0		
5Y. SRS22 - Mental health	0	0.0010	0		

	t0	t1	1	2	3	4	5	All
1: Preop 2Y	0.1725	0.0003	0.0071	0.0000	0.3258	0.0000		
2: Preop 5Y	0.1562	0.0000	0.0149	0.0002	0.7321	0.0000		
3: Preop 6M	0.0333	0.0002	0.0000	0.0000	0.2851	0.0000		
4: 6M 2Y	0.5474	0.8777	0.1214	0.7096	1.0000	0.5454		
5: 6M 5Y	0.6989	0.4411	0.0969	0.8221	0.2144	0.9850		
6: 2Y 5Y	0.8752	0.5603	0.8832	0.9331	0.2424	0.5706		

[1] "SRS22 - SRS Subtotal score"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean
SRS22 - SRS Subtotal score	2.83	0.70	3.08	0.42	2.66	0.42	1.90
6M. SRS22 - SRS Subtotal score	3.43	0.69	3.74	0.47	3.29	0.63	2.82
1Y. SRS22 - SRS Subtotal score	3.53	0.74	3.73	0.54	3.42	0.64	2.76
2Y. SRS22 - SRS Subtotal score	3.48	0.85	3.73	0.68	3.33	0.75	2.61
5Y. SRS22 - SRS Subtotal score	3.44	0.87	3.58	0.87	3.36	0.74	2.61
	3.sd	4.mean	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3
SRS22 - SRS Subtotal score	0.36	3.12	0.33	4.09	0.25	0.0000	0
6M. SRS22 - SRS Subtotal score	0.69	3.62	0.62	4.06	0.37	0.0000	0
1Y. SRS22 - SRS Subtotal score	0.76	3.83	0.57	4.24	0.35	0.0007	0
2Y. SRS22 - SRS Subtotal score	0.81	3.88	0.61	4.25	0.40	0.0004	0
5Y. SRS22 - SRS Subtotal score	0.79	3.76	0.74	4.28	0.43	0.1406	0
	p.val_1.4	p.val_1.5	p.val_2.3	p.val_2.4			
SRS22 - SRS Subtotal score	0.5341	0e+00	0	0.0000			
6M. SRS22 - SRS Subtotal score	0.2536	3e-04	0	0.0014			
1Y. SRS22 - SRS Subtotal score	0.3300	0e+00	0	0.0000			
2Y. SRS22 - SRS Subtotal score	0.2020	0e+00	0	0.0000			
5Y. SRS22 - SRS Subtotal score	0.3143	0e+00	0	0.0080			
	p.val_2.5	p.val_3.4	p.val_3.5	p.val_4.5			
SRS22 - SRS Subtotal score	0	0	0	0.0000			
6M. SRS22 - SRS Subtotal score	0	0	0	0.0000			
1Y. SRS22 - SRS Subtotal score	0	0	0	0.0000			
2Y. SRS22 - SRS Subtotal score	0	0	0	0.0006			
5Y. SRS22 - SRS Subtotal score	0	0	0	0.0013			
	p.val_all						
SRS22 - SRS Subtotal score	0						
6M. SRS22 - SRS Subtotal score	0						
1Y. SRS22 - SRS Subtotal score	0						
2Y. SRS22 - SRS Subtotal score	0						
5Y. SRS22 - SRS Subtotal score	0						

	t0	t1	1	2	3	4	5	All
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1: Preop 2Y 0.0000 0.0000 0.0000 0.0000 0.0418 0.0000
2: Preop 5Y 0.0007 0.0000 0.0000 0.0000 0.0458 0.0000
3: Preop 6M 0.0000 0.0000 0.0000 0.0000 0.7189 0.0000
4:   6M 2Y 0.9725 0.6634 0.1317 0.0217 0.0409 0.4272
5:   6M 5Y 0.2824 0.4468 0.1710 0.3376 0.0403 0.8979
6:   2Y 5Y 0.3354 0.7484 1.0000 0.4322 0.7832 0.5885

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[1] "SF36 - PCS"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	4.mean
SF36 - PCS	36.45	9.47	35.27	7.86	33.56	7.02	29.12	6.40	43.95
6M. SF36 - PCS	40.54	9.17	40.20	8.27	39.63	8.53	34.18	7.72	44.04
1Y. SF36 - PCS	41.94	10.01	41.23	8.84	41.19	9.20	33.24	8.43	46.72
2Y. SF36 - PCS	42.06	10.41	42.27	8.73	40.71	9.42	33.37	9.69	47.38
5Y. SF36 - PCS	41.64	11.22	40.94	10.60	40.29	10.39	33.58	9.64	47.62

  

	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3	p.val_1.4	p.val_1.5
SF36 - PCS	7.11	49.63	7.30	0.1384	0.0000	0.0000	0
6M. SF36 - PCS	8.55	49.45	6.99	0.6639	0.0001	0.0173	0
1Y. SF36 - PCS	8.54	51.67	5.89	0.9751	0.0000	0.0008	0
2Y. SF36 - PCS	8.72	51.94	6.76	0.2716	0.0000	0.0020	0
5Y. SF36 - PCS	10.59	51.81	6.71	0.7324	0.0013	0.0075	0

  

	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4	p.val_3.5	p.val_4.5
SF36 - PCS	0e+00	0.0000	0	0	0	0.0004
6M. SF36 - PCS	0e+00	0.0022	0	0	0	0.0017
1Y. SF36 - PCS	0e+00	0.0002	0	0	0	0.0014
2Y. SF36 - PCS	0e+00	0.0000	0	0	0	0.0060
5Y. SF36 - PCS	5e-04	0.0010	0	0	0	0.0668

  

	p.val_all
SF36 - PCS	0
6M. SF36 - PCS	0
1Y. SF36 - PCS	0
2Y. SF36 - PCS	0
5Y. SF36 - PCS	0

	t0	t1	1	2	3	4	5	All
1: Preop 2Y	0.0000	0.0000	0.0068	0.0242	0.1683	0.0000		
2: Preop 5Y	0.0032	0.0000	0.0139	0.0837	0.2171	0.0000		
3: Preop 6M	0.0009	0.0000	0.0002	0.9535	0.9130	0.0000		
4:   6M 2Y	0.1876	0.3383	0.6246	0.0444	0.1341	0.0460		
5:   6M 5Y	0.6999	0.6053	0.7485	0.1065	0.1780	0.2103		
6:   2Y 5Y	0.4966	0.7514	0.9172	0.9097	0.9393	0.6449		

[1] "SF36 - MCS"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	4.mean
SF36 - MCS	42.99	11.84	49.86	10.56	42.58	11.52	33.08	10.00	41.66
6M. SF36 - MCS	47.14	11.82	53.62	9.12	45.46	12.86	41.17	11.84	46.68
1Y. SF36 - MCS	47.55	11.57	53.25	9.25	46.46	11.63	40.03	13.37	47.93
2Y. SF36 - MCS	46.96	12.12	51.53	9.99	45.85	12.82	38.38	13.01	49.25
5Y. SF36 - MCS	47.66	11.33	52.01	9.42	47.30	11.21	38.90	12.41	48.22

	4.sd	5.mean	5.sd	p.val_1.2	p.val_1.3	p.val_1.4	p.val_1.5
SF36 - MCS	9.58	49.85	8.72	0.0000	0	0.0000	0.9948
6M. SF36 - MCS	9.82	52.53	7.18	0.0000	0	0.0002	0.5224
1Y. SF36 - MCS	9.31	52.26	7.54	0.0000	0	0.0024	0.5606
2Y. SF36 - MCS	8.76	53.53	6.38	0.0012	0	0.1933	0.2389
5Y. SF36 - MCS	8.97	53.49	8.06	0.0099	0	0.0752	0.4781
	p.val_2.3	p.val_2.4	p.val_2.5	p.val_3.4	p.val_3.5	p.val_4.5	
SF36 - MCS	0.0000	0.5751	0.0001	0.0000	0	0.0001	
6M. SF36 - MCS	0.0291	0.4924	0.0001	0.0089	0	0.0018	
1Y. SF36 - MCS	0.0025	0.3703	0.0006	0.0005	0	0.0161	
2Y. SF36 - MCS	0.0005	0.0377	0.0000	0.0000	0	0.0082	
5Y. SF36 - MCS	0.0005	0.6353	0.0017	0.0005	0	0.0188	
	p.val_all						
SF36 - MCS	0						
6M. SF36 - MCS	0						
1Y. SF36 - MCS	0						
2Y. SF36 - MCS	0						
5Y. SF36 - MCS	0						

	t0	t1	1	2	3	4	5	All
1: Preop 2Y	0.3701	0.0300	0.0163	0.0000	0.0440	0.0000	0.0000	0.0000
2: Preop 5Y	0.2686	0.0016	0.0172	0.0019	0.0873	0.0000	0.0000	0.0000
3: Preop 6M	0.0360	0.0571	0.0001	0.0087	0.1584	0.0000	0.0000	0.0000
4: 6M 2Y	0.2374	0.8101	0.2338	0.1519	0.5380	0.8411	0.8411	0.8411
5: 6M 5Y	0.3829	0.2482	0.3728	0.4592	0.6250	0.5974	0.5974	0.5974
6: 2Y 5Y	0.8038	0.3588	0.8434	0.5968	0.9796	0.4752	0.4752	0.4752

## Surgery

	All.mean	All.sd	1.mean	1.sd	
Total Operative Blood Loss st1+st2+st3	1447.62	1262.72	1756.49	1681.13	
Total surgical time st1+st2+st3	308.97	165.59	309.27	157.28	
Number of Posterior Instrumented Levels	9.06	4.58	8.53	4.66	
Number of Interbody Fusions	0.80	1.16	1.12	1.21	
	2.mean	2.sd	3.mean	3.sd	4.mean
Total Operative Blood Loss st1+st2+st3	1268.06	1090.18	1875.30	1275.17	1284.07
Total surgical time st1+st2+st3	272.04	147.89	336.46	169.16	363.53
Number of Posterior Instrumented Levels	8.28	4.70	9.26	4.48	10.28
Number of Interbody Fusions	1.01	1.17	0.98	1.08	0.29
	4.sd	5.mean	5.sd	p.val_1.2	
Total Operative Blood Loss st1+st2+st3	953.40	936.07	966.38	0.0382	
Total surgical time st1+st2+st3	192.77	302.26	157.49	0.1095	
Number of Posterior Instrumented Levels	4.29	10.18	4.18	0.7292	
Number of Interbody Fusions	1.17	0.00	0.00	0.5512	
	p.val_1.3	p.val_1.4	p.val_1.5	p.val_2.3	
Total Operative Blood Loss st1+st2+st3	0.6577	0.0660	0.0043	0.0017	
Total surgical time st1+st2+st3	0.3469	0.0789	0.8275	0.0106	
Number of Posterior Instrumented Levels	0.3775	0.0304	0.0700	0.1681	
Number of Interbody Fusions	0.4988	0.0001	0.0000	0.8580	
	p.val_2.4	p.val_2.5	p.val_3.4	p.val_3.5	
Total Operative Blood Loss st1+st2+st3	0.9250	0.1141	0.0071	0.0003	
Total surgical time st1+st2+st3	0.0009	0.2931	0.3976	0.3070	
Number of Posterior Instrumented Levels	0.0037	0.0194	0.1970	0.3019	

Number of Interbody Fusions	0.0001	0.0000	0.0006	0.0000
	p.val_4.5	p.val_all		
Total Operative Blood Loss st1+st2+st3	0.1366	0.0007		
Total surgical time st1+st2+st3	0.0823	0.0030		
Number of Posterior Instrumented Levels	0.9146	0.0204		
Number of Interbody Fusions	0.0505	0.0000		

```

$'Pelvic fixation'
$'Pelvic fixation'$All
$'Pelvic fixation'$All$table
variable
NA No Yes
24 214 134

```

```

$'Pelvic fixation'$All$proportion
variable
NA No Yes
0.06451613 0.57526882 0.36021505

```

```

$'Pelvic fixation'$'1'
$'Pelvic fixation'$'1'$table
variable
NA No Yes
5 20 41

```

```

$'Pelvic fixation'$'1'$proportion
variable
NA No Yes
0.07575758 0.30303030 0.62121212

```

```

$'Pelvic fixation'$'2'
$'Pelvic fixation'$'2'$table
variable
NA No Yes
8 82 49

```

```

$'Pelvic fixation'$'2'$proportion
variable
NA No Yes
0.05755396 0.58992806 0.35251799

```

```

$'Pelvic fixation'$'3'
$'Pelvic fixation'$'3'$table
variable
NA No Yes
3 22 38

```

```

$'Pelvic fixation'$'3'$proportion
variable
NA No Yes
0.04761905 0.34920635 0.60317460

```

```

$'Pelvic fixation'$'4'
$'Pelvic fixation'$'4'$table
variable
NA No Yes
4 56 6

```

```

$'Pelvic fixation'$'4'$proportion
variable
NA No Yes
0.06060606 0.84848485 0.09090909

```

```

$'Pelvic fixation'$'5'
$'Pelvic fixation'$'5'$table
variable
NA No
4 34

```

```

$'Pelvic fixation'$'5'$proportion
variable
NA No
0.1052632 0.8947368

```

```

$'Surgical Approach'
$'Surgical Approach'$All
$'Surgical Approach'$All$table
variable
Anterior Anterior-Posterior
1 4
Posterior Posterior-Anterior
352 11
Posterior-Posterior Posterior-Posterior-Anterior
3 1

```

```

$'Surgical Approach'$All$proportion
variable
Anterior Anterior-Posterior
0.002688172 0.010752688
Posterior Posterior-Anterior
0.946236559 0.029569892
Posterior-Posterior Posterior-Posterior-Anterior
0.008064516 0.002688172

```

```

$'Surgical Approach'$'1'
$'Surgical Approach'$'1'$table
variable
Posterior Posterior-Anterior Posterior-Posterior
61 4 1

```

\$'Surgical Approach'\$'1'\$proportion  
variable

Posterior	Posterior-Anterior	Posterior-Posterior
0.92424242	0.06060606	0.01515152

\$'Surgical Approach'\$'2'  
\$'Surgical Approach'\$'2'\$table  
variable

Anterior	Anterior-Posterior	Posterior	Posterior-Posterior
1	2	135	1

\$'Surgical Approach'\$'2'\$proportion  
variable

Anterior	Anterior-Posterior	Posterior	Posterior-Posterior
0.007194245	0.014388489	0.971223022	0.007194245

\$'Surgical Approach'\$'3'  
\$'Surgical Approach'\$'3'\$table  
variable

Posterior	Posterior-Anterior
56	7

\$'Surgical Approach'\$'3'\$proportion  
variable

Posterior	Posterior-Anterior
0.8888889	0.1111111

\$'Surgical Approach'\$'4'  
\$'Surgical Approach'\$'4'\$table  
variable

Anterior-Posterior	Posterior
2	62
Posterior-Posterior	Posterior-Posterior-Anterior
1	1

\$'Surgical Approach'\$'4'\$proportion  
variable

Anterior-Posterior	Posterior
0.03030303	0.93939394
Posterior-Posterior	Posterior-Posterior-Anterior
0.01515152	0.01515152

\$'Surgical Approach'\$'5'  
\$'Surgical Approach'\$'5'\$table  
variable

Posterior  
38

\$'Surgical Approach'\$'5'\$proportion  
variable



Posterior  
1

\$Decompression  
\$Decompression\$All  
\$Decompression\$All\$table  
variable  
No Yes  
274 98

\$Decompression\$All\$proportion  
variable  
No Yes  
0.7365591 0.2634409

\$Decompression\$'1'  
\$Decompression\$'1'\$table  
variable  
No Yes  
37 29

\$Decompression\$'1'\$proportion  
variable  
No Yes  
0.5606061 0.4393939

\$Decompression\$'2'  
\$Decompression\$'2'\$table  
variable  
No Yes  
98 41

\$Decompression\$'2'\$proportion  
variable  
No Yes  
0.705036 0.294964

\$Decompression\$'3'  
\$Decompression\$'3'\$table  
variable  
No Yes  
41 22

\$Decompression\$'3'\$proportion  
variable  
No Yes  
0.6507937 0.3492063

```
$Decompression$'4'
$Decompression$'4'$table
variable
  No Yes
  63  3
```

```
$Decompression$'4'$proportion
variable
      No      Yes
0.95454545 0.04545455
```

```
$Decompression$'5'
$Decompression$'5'$table
variable
  No Yes
  35  3
```

```
$Decompression$'5'$proportion
variable
      No      Yes
0.92105263 0.07894737
```

```
$'Interbody Fusion'
$'Interbody Fusion'$All
$'Interbody Fusion'$All$table
variable
  No Yes
216 156
```

```
$'Interbody Fusion'$All$proportion
variable
      No      Yes
0.5806452 0.4193548
```

```
$'Interbody Fusion'$'1'
$'Interbody Fusion'$'1'$table
variable
  No Yes
  28  38
```

```
$'Interbody Fusion'$'1'$proportion
variable
      No      Yes
0.4242424 0.5757576
```

```
$'Interbody Fusion'$'2'
$'Interbody Fusion'$'2'$table
variable
  No Yes
```

62 77

\$'Interbody Fusion'\$'2'\$proportion  
variable

No	Yes
0.4460432	0.5539568

\$'Interbody Fusion'\$'3'  
\$'Interbody Fusion'\$'3'\$table  
variable

No	Yes
28	35

\$'Interbody Fusion'\$'3'\$proportion  
variable

No	Yes
0.4444444	0.5555556

\$'Interbody Fusion'\$'4'  
\$'Interbody Fusion'\$'4'\$table  
variable

No	Yes
60	6

\$'Interbody Fusion'\$'4'\$proportion  
variable

No	Yes
0.9090909	0.0909090

\$'Interbody Fusion'\$'5'  
\$'Interbody Fusion'\$'5'\$table  
variable

No
38

\$'Interbody Fusion'\$'5'\$proportion  
variable

No
1

\$Osteotomy  
\$Osteotomy\$All  
\$Osteotomy\$All\$table  
variable

No	Yes
201	171

\$Osteotomy\$All\$proportion  
variable

	No	Yes
	0.5403226	0.4596774

\$Osteotomy\$'1'  
\$Osteotomy\$'1'\$table  
variable  
No Yes  
25 41

\$Osteotomy\$'1'\$proportion  
variable  
No Yes  
0.3787879 0.6212121

\$Osteotomy\$'2'  
\$Osteotomy\$'2'\$table  
variable  
No Yes  
82 57

\$Osteotomy\$'2'\$proportion  
variable  
No Yes  
0.5899281 0.4100719

\$Osteotomy\$'3'  
\$Osteotomy\$'3'\$table  
variable  
No Yes  
24 39

\$Osteotomy\$'3'\$proportion  
variable  
No Yes  
0.3809524 0.6190476

\$Osteotomy\$'4'  
\$Osteotomy\$'4'\$table  
variable  
No Yes  
42 24

\$Osteotomy\$'4'\$proportion  
variable  
No Yes  
0.6363636 0.3636364

\$Osteotomy\$'5'  
\$Osteotomy\$'5'\$table

```
variable
  No Yes
  28 10
```

```
$Osteotomy$'5'$proportion
variable
  No      Yes
0.7368421 0.2631579
```

```
$'3C0'
$'3C0'$All
$'3C0'$All$table
variable
  No Yes
318 54
```

```
$'3C0'$All$proportion
variable
  No      Yes
0.8548387 0.1451613
```

```
$'3C0'$'1'
$'3C0'$'1'$table
variable
  No Yes
49 17
```

```
$'3C0'$'1'$proportion
variable
  No      Yes
0.7424242 0.2575758
```

```
$'3C0'$'2'
$'3C0'$'2'$table
variable
  No Yes
125 14
```

```
$'3C0'$'2'$proportion
variable
  No      Yes
0.8992806 0.1007194
```

```
$'3C0'$'3'
$'3C0'$'3'$table
variable
  No Yes
45 18
```

```

$'3C0'$'3'$proportion
variable
      No      Yes
0.7142857 0.2857143

```

```

$'3C0'$'4'
$'3C0'$'4'$table
variable
      No  Yes
61     5

```

```

$'3C0'$'4'$proportion
variable
      No      Yes
0.92424242 0.07575758

```

```

$'3C0'$'5'
$'3C0'$'5'$table
variable
No
38

```

```

$'3C0'$'5'$proportion
variable
No
1

```

## Reinterventions

```

      group reiqs patients total
1:      1      48         22     66
2:      2      76         41    139
3:      3      71         29     63
4:      4      16         10     66
5:      5       3          3     38
6:    all    214        105    372

```

```

      p_val_all_1 p_val_all_2 p_val_all_3 p_val_all_4 p_val_all_5 p_val_1_2
1:      0.4867      0.8627      0.0073      0.0382      0.0118      0.6933
      p_val_1_3 p_val_1_4 p_val_1_5 p_val_2_3 p_val_2_4 p_val_2_5 p_val_3_4
1:      0.1955      0.0255      0.0072      0.0333      0.0407      0.0118      3e-04
      p_val_3_5 p_val_4_5
1:      2e-04      0.4415

```

## Impacts

```

      Complication Impact all_num all_patients 1_num 1_patients 2_num 2_patients
1:              0         1         1      0         0      0         0
2:      Adverse Event         6         5      0         0      2         2

```

3:	Major Complication	251	113	59	24	94	43
4:	Minor Complication	271	175	71	43	102	63
	3_num 3_patients 4_num 4_patients 5_num 5_patients all 1 2 3 4 5						
1:	1	1	0	0	0	0 372 66 139 63 66 38	
2:	0	0	2	2	2	1 372 66 139 63 66 38	
3:	77	31	18	12	3	3 372 66 139 63 66 38	
4:	63	41	25	18	10	10 372 66 139 63 66 38	
	p_val_all_1 p_val_all_2 p_val_all_3 p_val_all_4 p_val_all_5 p_val_1_2						
1:	1.0000	1.0000	0.6719	1.0000	1.0000	NaN	
2:	0.7500	1.0000	0.7745	0.6354	1.0000	0.8268	
3:	0.4106	0.9887	0.0052	0.0610	0.0061	0.5387	
4:	0.0099	0.8049	0.0120	0.0044	0.0229	0.0123	
	p_val_1_3 p_val_1_4 p_val_1_5 p_val_2_3 p_val_2_4 p_val_2_5 p_val_3_4						
1:	0.9814	NaN	NaN	0.6839	NaN	NaN	0.9814
2:	NaN	0.4761	0.7788	0.8494	0.8186	1.0000	0.4967
3:	0.1949	0.0316	0.0031	0.0193	0.0789	0.0078	0.0004
4:	1.0000	0.0000	0.0003	0.0143	0.0205	0.0544	0.0000
	p_val_3_5 p_val_4_5						
1:	1.0000	NaN					
2:	0.7974	1.0000					
3:	0.0001	0.2509					
4:	0.0004	1.0000					

## Categories

	Category of the complication	all_num	all_patients	1_num	1_patients	
1:	Central neurologic complications	1	1	0	0	
2:	Iatrogenic	74	65	21	19	
3:	Infectious complications	36	30	4	4	
4:	Mechanical complications	224	135	46	30	
5:	Other complications	124	80	37	20	
6:	Pain	19	18	4	4	
7:	Peripheral neurologic complications	51	43	18	15	
	2_num 2_patients 3_num 3_patients 4_num 4_patients 5_num 5_patients all 1					
1:	1	1	0	0	0	0 372 66
2:	23	19	17	14	10	10 3 3 372 66
3:	13	11	13	10	5	4 1 1 372 66
4:	84	49	76	41	12	9 6 6 372 66
5:	46	27	22	18	15	11 4 4 372 66
6:	11	10	2	2	1	1 1 1 372 66
7:	20	16	11	10	2	2 0 0 372 66
	2 3 4 5 p_val_all_1 p_val_all_2 p_val_all_3 p_val_all_4 p_val_all_5					
1:	139 63 66 38	1.0000	1.0000	1.0000	1.0000	1.0000
2:	139 63 66 38	0.0475	0.3690	0.4669	0.7763	0.1994
3:	139 63 66 38	0.7557	1.0000	0.0805	0.7557	0.3764
4:	139 63 66 38	0.2012	0.9092	0.0000	0.0005	0.0185
5:	139 63 66 38	0.1585	0.6948	0.2808	0.4664	0.1657
6:	139 63 66 38	0.9100	0.4106	0.7964	0.3715	0.8326
7:	139 63 66 38	0.0232	1.0000	0.4474	0.0597	0.0527
	p_val_1_2 p_val_1_3 p_val_1_4 p_val_1_5 p_val_2_3 p_val_2_4 p_val_2_5					
1:	1.0000	NaN	NaN	NaN	1.0000	1.0000
2:	0.0159	0.5141	0.0926	0.0236	0.1875	0.9441
3:	0.8501	0.1316	1.0000	0.7557	0.1420	0.4332

4:	0.2117	0.0391	0.0001	0.0044	0.0001	0.0023	0.0358
5:	0.1203	0.9821	0.1005	0.0391	0.2059	0.7776	0.2992
6:	0.9965	0.7190	0.3618	0.7557	0.4247	0.1757	0.5136
7:	0.0593	0.4462	0.0018	0.0039	0.5281	0.0818	0.0610
	p_val_3_4	p_val_3_5	p_val_4_5				
1:	NaN	NaN	NaN				
2:	0.4207	0.1119	0.4415				
3:	0.1316	0.0819	0.7557				
4:	0.0000	0.0000	0.9911				
5:	0.1591	0.0602	0.5697				
6:	0.9675	1.0000	1.0000				
7:	0.0273	0.0249	0.7322				