

## 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:       1 205
2:       2  63
3:       3 104
```

### Demographics

	variable	All.mean	All.sd	1.mean	1.sd
Age	Age	52.42	19.39	60.46	14.87
Height (cm)_First Visit	Height (cm)_First Visit	163.08	9.41	162.49	8.29
Weight (kgs)_First Visit	Weight (kgs)_First Visit	65.62	13.01	65.10	11.64
BMI_First Visit	BMI_First Visit	24.69	4.57	24.66	4.15
	2.mean 2.sd 3.mean 3.sd p.val_1.2 p.val_1.3				
Age	63.22 10.37 30.03 12.07 0.1000 0.0000				
Height (cm)_First Visit	161.35 10.24 165.28 10.59 0.4221 0.0202				
Weight (kgs)_First Visit	72.59 11.91 62.41 14.67 0.0000 0.1051				
BMI_First Visit	27.98 4.61 22.75 4.25 0.0000 0.0002				
	p.val_2.3 p.val_all				
Age	0.0000 0.0000				
Height (cm)_First Visit	0.0191 0.0131				
Weight (kgs)_First Visit	0.0000 0.0000				
BMI_First Visit	0.0000 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  
    168    37
```

```
$Gender$'1'$proportion  
variable  
    Female    Male  
0.8195122 0.1804878
```

```
$Gender$'2'  
$Gender$'2'$table  
variable  
Female    Male  
    49    14
```

```
$Gender$'2'$proportion  
variable  
    Female    Male  
0.7777778 0.2222222
```

```
$Gender$'3'  
$Gender$'3'$table  
variable  
Female    Male  
    74    30
```

```
$Gender$'3'$proportion  
variable  
    Female    Male  
0.7115385 0.2884615
```

```
$'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
139 66

```

```

$'Prior Spine Surgery'$'1'$proportion
variable
      No      Yes
0.6780488 0.3219512

```

```

$'Prior Spine Surgery'$'2'
$'Prior Spine Surgery'$'2'$table
variable
  No Yes
29 34

```

```

$'Prior Spine Surgery'$'2'$proportion
variable
      No      Yes
0.4603175 0.5396825

```

```

$'Prior Spine Surgery'$'3'
$'Prior Spine Surgery'$'3'$table
variable
  No Yes
87 17

```

```

$'Prior Spine Surgery'$'3'$proportion
variable
      No      Yes
0.8365385 0.1634615

```

```

$'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
39 129 37

```

```

$'ASA classification'$'1'$proportion
variable
      1      2      3
0.1902439 0.6292683 0.1804878

```

```

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

```

```

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

```

```

$'ASA classification'$'3'
$'ASA classification'$'3'$table
variable
  1  2  3
66 34  4

```

```

$'ASA classification'$'3'$proportion
variable
      1      2      3
0.63461538 0.32692308 0.03846154

```

```

$'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
      40      43      122

```

```

$'Tobacco use_First Visit'$'1'$proportion
variable
  Current      Ex Non-User

```

0.1951220 0.2097561 0.5951220

```
$'Tobacco use_First Visit'$'2'
$'Tobacco use_First Visit'$'2'$table
variable
  Current      Ex Non-User
      14         7      42
```

```
$'Tobacco use_First Visit'$'2'$proportion
variable
  Current      Ex Non-User
0.2222222 0.1111111 0.6666667
```

```
$'Tobacco use_First Visit'$'3'
$'Tobacco use_First Visit'$'3'$table
variable
  Current      Ex Non-User
      20        17      67
```

```
$'Tobacco use_First Visit'$'3'$proportion
variable
  Current      Ex Non-User
0.1923077 0.1634615 0.6442308
```

```
$'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

	Congenital		Degenerative
	1		96
	Failed-back		Idiopathic
	12		78
	Neuromuscular	Other: Ankylosing spondylitis	
	2		1
Other: hyperkyphosis		Other: spondylolisthesis	
	1		1
	Post-traumatic		Scheuermann
	7		4
	Syndromic		
	2		

\$'ESSG Diagnosis'\$'1'\$proportion  
 variable

	Congenital		Degenerative
	0.004878049		0.468292683
	Failed-back		Idiopathic
	0.058536585		0.380487805
	Neuromuscular	Other: Ankylosing spondylitis	
	0.009756098		0.004878049
Other: hyperkyphosis		Other: spondylolisthesis	
	0.004878049		0.004878049
	Post-traumatic		Scheuermann
	0.034146341		0.019512195
	Syndromic		
	0.009756098		

\$'ESSG Diagnosis'\$'2'  
 \$'ESSG Diagnosis'\$'2'\$table  
 variable

	Congenital	Degenerative	Failed-back	Idiopathic	Neuromuscular
	2	35	7	10	2
Post-traumatic		Scheuermann			
	6	1			

\$'ESSG Diagnosis'\$'2'\$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			

```

$'ESSG Diagnosis'$'3'
$'ESSG Diagnosis'$'3'$table
variable

```

Congenital	Degenerative
7	1
Failed-back	Idiopathic
1	78
Neuromuscular	Other: radiotherapy induced
1	1
Post-traumatic	Scheuermann
2	10
Syndromic	
3	

```

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

```

Congenital	Degenerative
0.067307692	0.009615385
Failed-back	Idiopathic
0.009615385	0.750000000
Neuromuscular	Other: radiotherapy induced
0.009615385	0.009615385
Post-traumatic	Scheuermann
0.019230769	0.096153846
Syndromic	
0.028846154	

```

$'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

```

Anterior	Anterior-Posterior	Posterior	Posterior-Anterior
1	2	196	4
Posterior-Posterior			
2			

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

Anterior	Anterior-Posterior	Posterior	Posterior-Anterior
0.004878049	0.009756098	0.956097561	0.019512195
Posterior-Posterior			
0.009756098			

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

Posterior	Posterior-Anterior
56	7

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

Posterior	Posterior-Anterior
0.8888889	0.1111111

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

Anterior-Posterior	Posterior
2	100
Posterior-Posterior	Posterior-Posterior-Anterior
1	1

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

Anterior-Posterior	Posterior
0.019230769	0.961538462
Posterior-Posterior	Posterior-Posterior-Anterior
0.009615385	0.009615385

## 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	37.88	17.91	31.68	20.00
6W. Static Major curve Cobb angle	23.00	16.25	21.64	14.66	15.42	11.56
6M. Static Major curve Cobb angle	23.05	17.22	20.44	14.66	17.86	14.98
1Y. Static Major curve Cobb angle	20.74	16.11	19.98	15.57	13.61	10.38
2Y. Static Major curve Cobb angle	22.52	17.11	20.61	15.01	16.39	13.18



5Y. Static Major curve Cobb angle	25.54	17.29	24.30	15.95	15.43	9.49
	3.mean	3.sd	p.val_1.2	p.val_1.3	p.val_2.3	
Static Major curve Cobb angle	58.24	20.02	0.0343	0.0000		0
6W. Static Major curve Cobb angle	29.73	18.82	0.0021	0.0004		0
6M. Static Major curve Cobb angle	30.82	20.23	0.2925	0.0000		0
1Y. Static Major curve Cobb angle	26.41	17.98	0.0006	0.0039		0
2Y. Static Major curve Cobb angle	29.50	20.24	0.0629	0.0006		0
5Y. Static Major curve Cobb angle	35.48	19.38	0.0009	0.0031		0
			p.val_all			
Static Major curve Cobb angle			0			
6W. Static Major curve Cobb angle			0			
6M. Static Major curve Cobb angle			0			
1Y. Static Major curve Cobb angle			0			
2Y. Static Major curve Cobb angle			0			
5Y. Static Major curve Cobb angle			0			

	t0	t1	1	2	3	All
1: Preop 2Y	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
3: Preop 6W	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4: 6W 2Y	0.5335	0.6962	0.9397	0.7258		
5: 6W 5Y	0.2164	0.9974	0.1254	0.1398		
6: 2Y 5Y	0.0972	0.7108	0.1242	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	21.81	16.82	30.02	29.64
6W. Coronal Balance (C7PL to CSVL)	20.14	15.06	20.72	15.78	21.00	14.80
6M. Coronal Balance (C7PL to CSVL)	18.59	14.71	19.26	14.77	23.15	18.44
1Y. Coronal Balance (C7PL to CSVL)	18.02	13.84	18.41	12.99	21.43	19.15
2Y. Coronal Balance (C7PL to CSVL)	18.12	15.53	18.71	15.11	22.14	19.70
5Y. Coronal Balance (C7PL to CSVL)	20.81	17.32	24.28	19.35	20.21	16.21
	3.mean	3.sd	p.val_1.2	p.val_1.3	p.val_2.3	
Coronal Balance (C7PL to CSVL)	19.08	14.20	0.0464	0.1559	0.0098	
6W. Coronal Balance (C7PL to CSVL)	18.61	13.91	0.9094	0.2816	0.3487	
6M. Coronal Balance (C7PL to CSVL)	14.68	10.88	0.1859	0.0074	0.0051	
1Y. Coronal Balance (C7PL to CSVL)	15.27	11.02	0.3103	0.0547	0.0456	
2Y. Coronal Balance (C7PL to CSVL)	14.11	11.76	0.2598	0.0161	0.0105	
5Y. Coronal Balance (C7PL to CSVL)	14.39	11.26	0.2868	0.0009	0.1098	
			p.val_all			
Coronal Balance (C7PL to CSVL)			0.0022			
6W. Coronal Balance (C7PL to CSVL)			0.5238			
6M. Coronal Balance (C7PL to CSVL)			0.0044			
1Y. Coronal Balance (C7PL to CSVL)			0.0440			
2Y. Coronal Balance (C7PL to CSVL)			0.0138			
5Y. Coronal Balance (C7PL to CSVL)			0.0149			

	t0	t1	1	2	3	All
1: Preop 2Y	0.0827	0.0986	0.0150	0.0023		
2: Preop 5Y	0.3334	0.0497	0.0489	0.3511		
3: Preop 6W	0.5375	0.0419	0.8216	0.0873		

```

4:    6W 2Y 0.2672 0.7386 0.0286 0.1213
5:    6W 5Y 0.1678 0.8319 0.0775 0.6961
6:    2Y 5Y 0.0326 0.6396 0.9017 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	48.71	60.85	93.82	59.04	-4.12	31.08
6W. Sagittal Balance	18.93	37.88	24.17	37.04	35.93	38.41	-1.75	29.89
6M. Sagittal Balance	16.75	44.68	21.65	43.09	38.57	52.33	-4.90	32.59
1Y. Sagittal Balance	19.20	48.86	23.53	45.94	49.10	54.00	-7.66	36.15
2Y. Sagittal Balance	24.55	49.64	28.22	44.43	60.15	54.87	-6.29	34.07
5Y. Sagittal Balance	34.29	48.85	38.81	50.06	61.98	43.51	5.35	33.89

  

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
Sagittal Balance	0.0000	0	0	0
6W. Sagittal Balance	0.0528	0	0	0
6M. Sagittal Balance	0.0402	0	0	0
1Y. Sagittal Balance	0.0030	0	0	0
2Y. Sagittal Balance	0.0003	0	0	0
5Y. Sagittal Balance	0.0260	0	0	0

	t0	t1	1	2	3	All
1: Preop 2Y	0.0005	0.0022	0.6651	0.0002		
2: Preop 5Y	0.1691	0.0063	0.1393	0.1640		
3: Preop 6W	0.0000	0.0000	0.5995	0.0000		
4: 6W 2Y	0.4029	0.0102	0.3729	0.1367		
5: 6W 5Y	0.0236	0.0113	0.2700	0.0011		
6: 2Y 5Y	0.1241	0.8715	0.0885	0.0573		

[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	11.18	9.79	10.67	10.35	11.18	9.67
6W. Sagittal T2-T5	13.65	8.18	13.47	7.77	14.64	9.57	13.40	8.08
6M. Sagittal T2-T5	14.05	9.61	14.07	9.98	13.60	11.43	14.27	7.79
1Y. Sagittal T2-T5	13.92	9.59	12.98	9.33	14.70	11.87	15.22	8.26
2Y. Sagittal T2-T5	14.33	9.94	12.59	9.38	16.11	11.27	16.13	9.58
5Y. Sagittal T2-T5	15.76	11.63	14.93	10.54	17.54	15.18	16.16	11.07

  

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
Sagittal T2-T5	0.7345	0.9965	0.7605	0.9352
6W. Sagittal T2-T5	0.4266	0.9472	0.4369	0.6332
6M. Sagittal T2-T5	0.7934	0.8609	0.7124	0.9245
1Y. Sagittal T2-T5	0.3417	0.0589	0.7822	0.1863
2Y. Sagittal T2-T5	0.0498	0.0077	0.9924	0.0127
5Y. Sagittal T2-T5	0.4150	0.5673	0.6893	0.5889

	t0	t1	1	2	3	All
1: Preop 2Y	0.1871	0.0098	0.0007	0.0001		
2: Preop 5Y	0.0077	0.0391	0.0169	0.0000		
3: Preop 6W	0.0144	0.0372	0.0928	0.0003		

```

4:    6W 2Y 0.3776 0.4781 0.0464 0.3771
5:    6W 5Y 0.2775 0.3725 0.1673 0.0525
6:    2Y 5Y 0.1040 0.6693 0.9864 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	31.43	18.23	32.25	18.30	36.24	20.05
6W. Sagittal T5-T12	33.74	13.83	34.94	13.51	36.00	12.79	30.05	14.48
6M. Sagittal T5-T12	34.66	13.88	35.84	13.64	37.34	13.61	30.99	13.89
1Y. Sagittal T5-T12	35.43	13.85	36.49	13.91	37.85	13.79	31.85	13.24
2Y. Sagittal T5-T12	36.18	15.75	38.61	17.40	37.17	15.11	31.60	12.01
5Y. Sagittal T5-T12	40.10	16.53	41.50	15.90	44.81	15.15	33.92	17.33

  

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
Sagittal T5-T12	0.7588	0.0464	0.1970	0.1114
6W. Sagittal T5-T12	0.6017	0.0096	0.0114	0.0108
6M. Sagittal T5-T12	0.4915	0.0078	0.0089	0.0083
1Y. Sagittal T5-T12	0.5383	0.0118	0.0141	0.0173
2Y. Sagittal T5-T12	0.5785	0.0004	0.0273	0.0044
5Y. Sagittal T5-T12	0.3310	0.0249	0.0081	0.0148

	t0	t1	1	2	3	All
1: Preop 2Y	0.0003	0.1204	0.0545	0.0174		
2: Preop 5Y	0.0000	0.0012	0.4995	0.0000		
3: Preop 6W	0.0364	0.1985	0.0157	0.5127		
4: 6W 2Y	0.0432	0.6677	0.4452	0.0475		
5: 6W 5Y	0.0020	0.0113	0.2281	0.0001		
6: 2Y 5Y	0.2161	0.0362	0.4524	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	38.61	19.46	40.27	19.30	42.32	20.29
6W. Sagittal T2-T12	43.16	15.31	44.43	14.45	46.84	14.87	38.61	16.22
6M. Sagittal T2-T12	44.77	15.26	45.40	14.61	48.90	17.79	41.43	14.35
1Y. Sagittal T2-T12	44.92	15.31	45.55	15.04	47.84	17.38	41.95	14.10
2Y. Sagittal T2-T12	45.64	15.57	45.61	15.46	49.21	17.78	43.46	13.96
5Y. Sagittal T2-T12	49.45	16.87	51.02	15.35	52.61	20.93	44.13	15.89

  

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
Sagittal T2-T12	0.5546	0.1324	0.5174	0.3042
6W. Sagittal T2-T12	0.3012	0.0050	0.0024	0.0021
6M. Sagittal T2-T12	0.2053	0.0347	0.0117	0.0137
1Y. Sagittal T2-T12	0.3932	0.0636	0.0401	0.0654
2Y. Sagittal T2-T12	0.1970	0.2833	0.0484	0.1077
5Y. Sagittal T2-T12	0.7182	0.0285	0.0817	0.0631

	t0	t1	1	2	3	All
1: Preop 2Y	0.0003	0.0107	0.6540	0.0000		
2: Preop 5Y	0.0000	0.0118	0.5795	0.0000		
3: Preop 6W	0.0012	0.0400	0.1639	0.0172		

```

4:    6W 2Y 0.4947 0.4567 0.0353 0.0527
5:    6W 5Y 0.0018 0.2077 0.0759 0.0002
6:    2Y 5Y 0.0138 0.4737 0.8208 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	-40.72	18.67	-32.81	19.24	-56.42
6W. Lordosis (top of L1-S1)	-51.20	14.22	-50.24	14.13	-49.95	15.56	-53.79
6M. Lordosis (top of L1-S1)	-50.88	14.30	-49.83	13.62	-46.07	17.04	-55.58
1Y. Lordosis (top of L1-S1)	-51.16	14.46	-50.04	13.87	-47.19	16.62	-55.87
2Y. Lordosis (top of L1-S1)	-51.59	15.20	-50.42	15.53	-46.87	16.23	-56.52
5Y. Lordosis (top of L1-S1)	-50.64	15.97	-48.59	16.16	-49.25	14.85	-55.84

  

	3.sd	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
Lordosis (top of L1-S1)	18.14	0.0050	0.0000	0.0000	0.0000
6W. Lordosis (top of L1-S1)	13.40	0.9016	0.0376	0.1300	0.1032
6M. Lordosis (top of L1-S1)	12.64	0.1417	0.0005	0.0006	0.0001
1Y. Lordosis (top of L1-S1)	13.11	0.2514	0.0009	0.0014	0.0006
2Y. Lordosis (top of L1-S1)	12.56	0.1664	0.0011	0.0003	0.0004
5Y. Lordosis (top of L1-S1)	15.57	0.8435	0.0209	0.0839	0.0574

	t0	t1	1	2	3	All
1: Preop 2Y	0.0000	0.0000	0.9617	0.0000		
2: Preop 5Y	0.0005	0.0000	0.8520	0.0001		
3: Preop 6W	0.0000	0.0000	0.2404	0.0000		
4: 6W 2Y	0.9092	0.3172	0.1531	0.7430		
5: 6W 5Y	0.4268	0.8430	0.4707	0.7105		
6: 2Y 5Y	0.4058	0.5085	0.8110	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	55.27	13.45	55.85	13.73	50.68	11.14
6W. Pelvic Incidence	54.15	12.92	55.41	13.46	56.27	13.25	50.37	10.77
6M. Pelvic Incidence	53.99	12.65	55.20	13.05	54.70	13.44	51.26	10.99
1Y. Pelvic Incidence	53.66	12.57	54.38	12.85	56.59	12.86	50.44	11.22
2Y. Pelvic Incidence	53.75	12.42	54.57	12.79	56.40	13.54	50.67	10.43
5Y. Pelvic Incidence	54.90	12.41	54.49	12.92	58.62	12.57	53.06	10.86

  

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
Pelvic Incidence	0.7701	0.0018	0.0134	0.0075
6W. Pelvic Incidence	0.6755	0.0008	0.0064	0.0033
6M. Pelvic Incidence	0.8098	0.0085	0.1158	0.0430
1Y. Pelvic Incidence	0.2699	0.0109	0.0045	0.0090
2Y. Pelvic Incidence	0.3915	0.0121	0.0095	0.0147
5Y. Pelvic Incidence	0.1437	0.5288	0.0644	0.1774

	t0	t1	1	2	3	All
1: Preop 2Y	0.6193	0.8289	0.9951	0.7170		
2: Preop 5Y	0.6500	0.3499	0.2533	0.5238		
3: Preop 6W	0.9190	0.8664	0.8408	0.9695		

```

4:    6W 2Y 0.5583 0.9610 0.8467 0.6936
5:    6W 5Y 0.5975 0.4341 0.1964 0.5476
6:    2Y 5Y 0.9634 0.4627 0.2534 0.3628

```

[1] "Pelvic Tilt"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	p.val_1.2
Pelvic Tilt	21.99	10.97	24.33	10.68	27.72	8.21	13.63	8.12	0.0091
6W. Pelvic Tilt	18.18	9.64	19.76	9.47	22.18	8.79	12.62	8.05	0.0822
6M. Pelvic Tilt	19.60	10.05	21.42	9.50	24.40	9.47	13.25	8.40	0.0471
1Y. Pelvic Tilt	19.40	10.25	20.95	10.09	24.32	8.30	13.18	8.80	0.0145
2Y. Pelvic Tilt	19.25	9.43	21.14	8.72	24.20	8.37	12.91	7.93	0.0252
5Y. Pelvic Tilt	21.93	9.91	23.68	8.89	27.04	8.52	14.67	9.04	0.0820

  

	p.val_1.3	p.val_2.3	p.val_all
Pelvic Tilt	0	0	0
6W. Pelvic Tilt	0	0	0
6M. Pelvic Tilt	0	0	0
1Y. Pelvic Tilt	0	0	0
2Y. Pelvic Tilt	0	0	0
5Y. Pelvic Tilt	0	0	0

	t0	t1	1	2	3	All
1: Preop 2Y	0.0024	0.0242	0.5468	0.0007		
2: Preop 5Y	0.6063	0.7262	0.5340	0.9521		
3: Preop 6W	0.0000	0.0007	0.3909	0.0000		
4: 6W 2Y	0.1656	0.2242	0.8084	0.1633		
5: 6W 5Y	0.0014	0.0186	0.2261	0.0001		
6: 2Y 5Y	0.0398	0.1555	0.3011	0.0072		

[1] "Sacral Slope"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd
Sacral Slope	32.56	11.12	31.61	11.17	28.08	11.06	37.22	9.39
6W. Sacral Slope	35.90	10.13	35.54	10.05	34.00	12.20	37.66	8.79
6M. Sacral Slope	34.37	10.03	33.59	10.17	30.28	10.78	38.16	7.97
1Y. Sacral Slope	34.30	9.66	33.33	9.55	32.28	9.93	37.47	9.05
2Y. Sacral Slope	34.58	10.38	33.57	10.26	32.18	11.37	37.83	9.23
5Y. Sacral Slope	32.97	10.72	30.80	10.52	31.58	10.66	38.42	9.40

  

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
Sacral Slope	0.0298	0.0000	0.0000	0.0000
6W. Sacral Slope	0.3953	0.0681	0.0553	0.0800
6M. Sacral Slope	0.0497	0.0001	0.0000	0.0000
1Y. Sacral Slope	0.4930	0.0007	0.0021	0.0009
2Y. Sacral Slope	0.4327	0.0013	0.0028	0.0016
5Y. Sacral Slope	0.7421	0.0001	0.0088	0.0008

	t0	t1	1	2	3	All
1: Preop 2Y	0.0905	0.0520	0.6573	0.0172		
2: Preop 5Y	0.5706	0.1598	0.5022	0.7005		
3: Preop 6W	0.0003	0.0075	0.7352	0.0000		

```

4:    6W 2Y 0.0765 0.4246 0.9005 0.1096
5:    6W 5Y 0.0008 0.3578 0.6675 0.0053
6:    2Y 5Y 0.0583 0.8143 0.7453 0.1360

```

[1] "RLL"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	p.val_1.2
RLL	-18.81	20.26	-22.55	18.10	-30.81	18.11	-3.79	17.01	0.0021
6W. RLL	-11.30	13.07	-13.11	13.09	-13.94	12.33	-6.08	12.08	0.6671
6M. RLL	-11.56	13.38	-13.32	12.36	-16.63	15.43	-5.33	11.87	0.1557
1Y. RLL	-11.22	13.90	-12.67	13.41	-17.05	14.32	-4.54	12.13	0.0493
2Y. RLL	-10.54	14.13	-12.03	14.26	-17.09	13.93	-3.85	11.20	0.0252
5Y. RLL	-12.40	14.34	-14.20	13.96	-16.10	12.46	-6.05	14.70	0.5044

  

	p.val_1.3	p.val_2.3	p.val_all
RLL	0.0000	0.0000	0.000
6W. RLL	0.0000	0.0003	0.000
6M. RLL	0.0000	0.0000	0.000
1Y. RLL	0.0000	0.0000	0.000
2Y. RLL	0.0000	0.0000	0.000
5Y. RLL	0.0052	0.0037	0.004

	t0	t1	1	2	3	All
1: Preop 2Y	0.0000	0.0000	0.9746	0.0000		
2: Preop 5Y	0.0001	0.0000	0.4366	0.0001		
3: Preop 6W	0.0000	0.0000	0.2780	0.0000		
4: 6W 2Y	0.4740	0.2156	0.2026	0.4850		
5: 6W 5Y	0.5519	0.4589	0.9925	0.4275		
6: 2Y 5Y	0.2677	0.7428	0.4089	0.1988		

[1] "Global Tilt"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd
Global Tilt	26.29	17.73	29.71	17.30	38.32	13.42	11.31	9.61
6W. Global Tilt	18.64	12.13	20.99	11.97	24.07	10.77	10.61	9.09
6M. Global Tilt	20.43	13.71	22.97	12.99	27.11	13.29	11.47	10.73
1Y. Global Tilt	20.75	13.96	22.46	13.99	28.51	11.62	11.81	10.48
2Y. Global Tilt	20.89	13.98	23.74	12.28	29.75	12.90	10.58	11.00
5Y. Global Tilt	24.89	14.93	27.22	14.37	33.16	12.33	14.17	11.80

  

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
Global Tilt	0.0001	0	0	0
6W. Global Tilt	0.0843	0	0	0
6M. Global Tilt	0.0547	0	0	0
1Y. Global Tilt	0.0027	0	0	0
2Y. Global Tilt	0.0048	0	0	0
5Y. Global Tilt	0.0405	0	0	0

  

	t0	t1	1	2	3	All
1: Preop 2Y	0.0003	0.0007	0.6427	0.0000		
2: Preop 5Y	0.2226	0.0794	0.1859	0.3675		
3: Preop 6W	0.0000	0.0000	0.6185	0.0000		

```

4:    6W 2Y 0.0528 0.0165 0.9862 0.0418
5:    6W 5Y 0.0011 0.0019 0.1012 0.0000
6:    2Y 5Y 0.0721 0.2500 0.1151 0.0080

```

[1] "T1 Sagittal Tilt"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd
T1 Sagittal Tilt	-1.86	6.15	-1.64	6.10	2.22	6.77	-4.83	3.91
6W. T1 Sagittal Tilt	-3.59	4.01	-3.35	4.11	-3.37	4.19	-4.20	3.65
6M. T1 Sagittal Tilt	-4.12	4.30	-4.12	4.34	-2.52	5.26	-5.03	3.29
1Y. T1 Sagittal Tilt	-3.88	5.00	-3.93	5.05	-2.11	5.36	-4.97	4.33
2Y. T1 Sagittal Tilt	-3.63	4.47	-3.44	4.43	-1.39	5.60	-5.24	3.01
5Y. T1 Sagittal Tilt	-2.75	4.89	-2.84	5.49	-0.99	4.43	-3.87	3.36

  

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
T1 Sagittal Tilt	0.0002	0.0000	0.0000	0.0000
6W. T1 Sagittal Tilt	0.9776	0.1143	0.2714	0.2959
6M. T1 Sagittal Tilt	0.0630	0.0698	0.0043	0.0057
1Y. T1 Sagittal Tilt	0.0427	0.1176	0.0030	0.0093
2Y. T1 Sagittal Tilt	0.0305	0.0005	0.0001	0.0000
5Y. T1 Sagittal Tilt	0.0811	0.2096	0.0059	0.0584

	t0	t1	1	2	3	All
1: Preop 2Y	0.0029	0.0042	0.4455	0.0001		
2: Preop 5Y	0.1223	0.0106	0.1630	0.0932		
3: Preop 6W	0.0030	0.0000	0.2863	0.0000		
4: 6W 2Y	0.8571	0.0631	0.0584	0.9135		
5: 6W 5Y	0.4656	0.0269	0.6327	0.0780		
6: 2Y 5Y	0.4051	0.7404	0.0372	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	10.75	20.57	12.01	19.20	7.38	21.02
6W. Thoracolumbar L2-T10	4.91	12.50	6.15	12.72	7.37	10.07	1.17	12.67
6M. Thoracolumbar L2-T10	5.08	12.15	6.75	11.21	6.98	9.83	0.58	14.05
1Y. Thoracolumbar L2-T10	5.27	12.67	7.60	11.91	7.36	11.02	-0.40	13.31
2Y. Thoracolumbar L2-T10	6.07	12.79	7.70	12.82	8.45	11.79	1.76	12.43
5Y. Thoracolumbar L2-T10	7.26	14.64	8.98	14.19	10.45	12.40	1.49	15.74

  

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
Thoracolumbar L2-T10	0.6594	0.1930	0.1531	0.2903
6W. Thoracolumbar L2-T10	0.4764	0.0032	0.0017	0.0028
6M. Thoracolumbar L2-T10	0.8864	0.0007	0.0025	0.0003
1Y. Thoracolumbar L2-T10	0.8940	0.0000	0.0004	0.0000
2Y. Thoracolumbar L2-T10	0.7050	0.0008	0.0022	0.0011
5Y. Thoracolumbar L2-T10	0.6059	0.0144	0.0114	0.0134

	t0	t1	1	2	3	All
1: Preop 2Y	0.0983	0.2274	0.0271	0.0032		
2: Preop 5Y	0.4179	0.6460	0.0766	0.0907		
3: Preop 6W	0.0103	0.1018	0.0141	0.0001		

```

4:    6W 2Y 0.2899 0.6175 0.7588 0.2713
5:    6W 5Y 0.1338 0.2645 0.9114 0.0955
6:    2Y 5Y 0.5090 0.4860 0.9249 0.4062

```

[1] "RSA"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	p.val_1.2
RSA	15.26	15.41	18.19	14.95	26.40	11.11	1.87	8.01	0.0000
6W. RSA	7.59	9.53	9.35	9.14	12.02	8.99	1.38	7.47	0.0668
6M. RSA	9.46	10.88	11.41	9.96	15.62	10.56	1.94	8.62	0.0140
1Y. RSA	9.81	11.07	11.27	10.82	16.16	9.23	2.34	8.57	0.0021
2Y. RSA	10.09	11.67	12.40	9.72	17.87	11.23	1.34	9.48	0.0027
5Y. RSA	13.54	12.84	16.07	12.10	20.03	10.37	3.70	10.41	0.1024

  

	p.val_1.3	p.val_2.3	p.val_all
RSA	0	0	0
6W. RSA	0	0	0
6M. RSA	0	0	0
1Y. RSA	0	0	0
2Y. RSA	0	0	0
5Y. RSA	0	0	0

	t0	t1	1	2	3	All
1: Preop 2Y	0.0000	0.0001	0.6917	0.0000		
2: Preop 5Y	0.2221	0.0108	0.3290	0.2017		
3: Preop 6W	0.0000	0.0000	0.6733	0.0000		
4: 6W 2Y	0.0059	0.0042	0.9771	0.0058		
5: 6W 5Y	0.0000	0.0012	0.2162	0.0000		
6: 2Y 5Y	0.0226	0.3920	0.2344	0.0072		

[1] "RPV"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	p.val_1.2	p.val_1.3
RPV	-8.42	9.15	-10.11	8.94	-13.87	6.63	-1.67	6.86	0.0005	0
6W. RPV	-5.03	7.61	-6.15	7.18	-8.20	8.06	-0.94	6.56	0.0940	0
6M. RPV	-6.49	7.91	-7.98	7.33	-10.99	7.54	-1.09	6.24	0.0117	0
1Y. RPV	-6.39	7.94	-7.75	7.63	-10.10	6.42	-1.35	7.02	0.0266	0
2Y. RPV	-6.14	7.76	-7.64	7.08	-10.10	7.03	-1.07	6.79	0.0305	0
5Y. RPV	-8.42	8.24	-10.34	7.19	-12.01	7.16	-1.89	7.49	0.2952	0

  

	p.val_2.3	p.val_all
RPV	0	0
6W. RPV	0	0
6M. RPV	0	0
1Y. RPV	0	0
2Y. RPV	0	0
5Y. RPV	0	0

	t0	t1	1	2	3	All
1: Preop 2Y	0.0042	0.0037	0.5505	0.0006		
2: Preop 5Y	0.8161	0.2486	0.8743	0.9929		
3: Preop 6W	0.0000	0.0001	0.4539	0.0000		



```

4:    6W 2Y 0.0561 0.1961 0.9021 0.0718
5:    6W 5Y 0.0000 0.0328 0.4970 0.0000
6:    2Y 5Y 0.0071 0.2538 0.5624 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	40.27	14.03	61.84	11.20	16.10	11.27
6M. ODI - Score (%)	28.30	17.97	28.22	15.98	45.19	18.30	17.78	13.04
1Y. ODI - Score (%)	25.72	18.07	26.46	16.30	44.66	15.57	12.83	10.94
2Y. ODI - Score (%)	27.53	21.27	28.07	19.36	50.35	19.33	12.76	11.29
5Y. ODI - Score (%)	28.33	21.38	29.38	20.03	49.02	19.14	12.18	10.78

  

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
ODI - Score (%)	0	0	0	0
6M. ODI - Score (%)	0	0	0	0
1Y. ODI - Score (%)	0	0	0	0
2Y. ODI - Score (%)	0	0	0	0
5Y. ODI - Score (%)	0	0	0	0

	t0	t1	1	2	3	All
1: Preop 2Y	0.0000	0.0002	0.0418	0.0000		
2: Preop 5Y	0.0000	0.0003	0.0307	0.0000		
3: Preop 6M	0.0000	0.0000	0.3518	0.0000		
4: 6M 2Y	0.9373	0.1463	0.0058	0.6108		
5: 6M 5Y	0.5634	0.3259	0.0047	0.9874		
6: 2Y 5Y	0.5455	0.7388	0.7490	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	2.94	0.55	2.11	0.52	4.01
6M. SRS22 - Function / Activity	3.26	0.82	3.19	0.66	2.59	0.73	3.81
1Y. SRS22 - Function / Activity	3.40	0.89	3.30	0.73	2.59	0.77	4.10
2Y. SRS22 - Function / Activity	3.48	0.93	3.33	0.75	2.63	0.85	4.27
5Y. SRS22 - Function / Activity	3.50	0.91	3.45	0.76	2.67	0.88	4.16

  

	3.sd	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
SRS22 - Function / Activity	0.70	0	0	0	0
6M. SRS22 - Function / Activity	0.79	0	0	0	0
1Y. SRS22 - Function / Activity	0.73	0	0	0	0
2Y. SRS22 - Function / Activity	0.66	0	0	0	0
5Y. SRS22 - Function / Activity	0.78	0	0	0	0

  

	t0	t1	1	2	3	All
1: Preop 2Y	0.0000	0.0001	0.0099	0.0000		
2: Preop 5Y	0.0000	0.0005	0.2157	0.0000		
3: Preop 6M	0.0001	0.0001	0.0640	0.0082		

```

4:    6M 2Y 0.0522 0.8295 0.0000 0.0013
5:    6M 5Y 0.0010 0.6438 0.0067 0.0009
6:    2Y 5Y 0.1493 0.7954 0.3911 0.7342

```

[1] "SRS22 - Pain"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	p.val_1.2
SRS22 - Pain	2.62	0.97	2.48	0.70	1.52	0.47	3.60	0.78	0
6M. SRS22 - Pain	3.42	0.90	3.46	0.83	2.79	0.90	3.75	0.84	0
1Y. SRS22 - Pain	3.57	0.98	3.57	0.92	2.68	0.99	4.08	0.69	0
2Y. SRS22 - Pain	3.49	1.09	3.49	1.02	2.51	1.08	4.07	0.77	0
5Y. SRS22 - Pain	3.38	1.13	3.35	1.06	2.50	1.09	4.02	0.89	0

  

	p.val_1.3	p.val_2.3	p.val_all
SRS22 - Pain	0.0000	0	0
6M. SRS22 - Pain	0.0068	0	0
1Y. SRS22 - Pain	0.0000	0	0
2Y. SRS22 - Pain	0.0000	0	0
5Y. SRS22 - Pain	0.0000	0	0

	t0	t1	1	2	3	All
1: Preop 2Y	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2: Preop 5Y	0.0000	0.0000	0.0000	0.0032	0.0000	0.0000
3: Preop 6M	0.0000	0.0000	0.0000	0.2089	0.0000	0.0000
4: 6M 2Y	0.7086	0.1421	0.0062	0.3696		
5: 6M 5Y	0.3116	0.1692	0.0619	0.6041		
6: 2Y 5Y	0.2105	0.9400	0.6934	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	2.45	0.67	1.65	0.50
6M. SRS22 - Self image / Appearance	3.48	0.83	3.48	0.78	2.93	0.92
1Y. SRS22 - Self image / Appearance	3.52	0.80	3.54	0.70	2.82	0.87
2Y. SRS22 - Self image / Appearance	3.43	0.93	3.42	0.83	2.60	0.93
5Y. SRS22 - Self image / Appearance	3.37	0.93	3.36	0.87	2.60	0.87

  

	3.mean	3.sd	p.val_1.2	p.val_1.3	p.val_2.3
SRS22 - Self image / Appearance	2.84	0.70	0e+00	0e+00	0
6M. SRS22 - Self image / Appearance	3.82	0.71	1e-04	2e-04	0
1Y. SRS22 - Self image / Appearance	3.91	0.67	0e+00	0e+00	0
2Y. SRS22 - Self image / Appearance	3.95	0.76	0e+00	0e+00	0
5Y. SRS22 - Self image / Appearance	3.90	0.74	0e+00	0e+00	0

  

	p.val_all
SRS22 - Self image / Appearance	0
6M. SRS22 - Self image / Appearance	0
1Y. SRS22 - Self image / Appearance	0
2Y. SRS22 - Self image / Appearance	0
5Y. SRS22 - Self image / Appearance	0

	t0	t1	1	2	3	All
1: Preop 2Y	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

```

2: Preop 5Y 0.0000 0.0000 0.0000 0.0000
3: Preop 6M 0.0000 0.0000 0.0000 0.0000
4:   6M 2Y 0.4723 0.0573 0.2392 0.4681
5:   6M 5Y 0.1890 0.0722 0.5067 0.1429
6:   2Y 5Y 0.5183 0.9936 0.7040 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	3.28	0.80	2.26	0.65	3.53	0.71
6M. SRS22 - Mental health	3.55	0.85	3.62	0.86	2.95	0.88	3.79	0.61
1Y. SRS22 - Mental health	3.61	0.83	3.68	0.78	2.93	0.96	3.87	0.61
2Y. SRS22 - Mental health	3.51	0.94	3.60	0.94	2.68	0.97	3.81	0.62
5Y. SRS22 - Mental health	3.55	0.89	3.64	0.83	2.66	0.85	3.91	0.67

  

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
SRS22 - Mental health	0	0.0070	0	0
6M. SRS22 - Mental health	0	0.0509	0	0
1Y. SRS22 - Mental health	0	0.0250	0	0
2Y. SRS22 - Mental health	0	0.0253	0	0
5Y. SRS22 - Mental health	0	0.0165	0	0

	t0	t1	1	2	3	All
1: Preop 2Y	0.0002	0.0071	0.0032	0.0000		
2: Preop 5Y	0.0000	0.0149	0.0008	0.0000		
3: Preop 6M	0.0001	0.0000	0.0063	0.0000		
4:   6M 2Y	0.8972	0.1214	0.7953	0.5454		
5:   6M 5Y	0.7597	0.0969	0.2696	0.9850		
6:   2Y 5Y	0.6746	0.8832	0.3777	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	2.79	0.46	1.90	0.36	3.49
6M. SRS22 - SRS Subtotal score	3.43	0.69	3.43	0.62	2.82	0.69	3.79
1Y. SRS22 - SRS Subtotal score	3.53	0.74	3.53	0.63	2.76	0.76	3.99
2Y. SRS22 - SRS Subtotal score	3.48	0.85	3.46	0.75	2.61	0.81	4.02
5Y. SRS22 - SRS Subtotal score	3.44	0.87	3.43	0.79	2.61	0.79	4.00

  

	3.sd	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
SRS22 - SRS Subtotal score	0.56	0	0	0	0
6M. SRS22 - SRS Subtotal score	0.58	0	0	0	0
1Y. SRS22 - SRS Subtotal score	0.53	0	0	0	0
2Y. SRS22 - SRS Subtotal score	0.56	0	0	0	0
5Y. SRS22 - SRS Subtotal score	0.67	0	0	0	0

	t0	t1	1	2	3	All
1: Preop 2Y	0.0000	0.0000	0.0000	0.0000		
2: Preop 5Y	0.0000	0.0000	0.0000	0.0000		
3: Preop 6M	0.0000	0.0000	0.0003	0.0000		
4:   6M 2Y	0.7228	0.1317	0.0057	0.4272		
5:   6M 5Y	0.9320	0.1710	0.0526	0.8979		

6: 2Y 5Y 0.7049 1.0000 0.7869 0.5885

[1] "SF36 - PCS"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	p.val_1.2
SF36 - PCS	36.45	9.47	34.10	7.32	29.12	6.40	46.26	7.68	0e+00
6M. SF36 - PCS	40.54	9.17	39.81	8.43	34.18	7.72	46.19	8.36	0e+00
1Y. SF36 - PCS	41.94	10.01	41.20	9.06	33.24	8.43	48.71	7.93	0e+00
2Y. SF36 - PCS	42.06	10.41	41.20	9.22	33.37	9.69	49.09	8.30	0e+00
5Y. SF36 - PCS	41.64	11.22	40.49	10.42	33.58	9.64	49.54	9.19	2e-04

  

	p.val_1.3	p.val_2.3	p.val_all
SF36 - PCS	0	0	0
6M. SF36 - PCS	0	0	0
1Y. SF36 - PCS	0	0	0
2Y. SF36 - PCS	0	0	0
5Y. SF36 - PCS	0	0	0

	t0	t1	1	2	3	All
1: Preop 2Y	0.0000	0.0068	0.0172	0.0000		
2: Preop 5Y	0.0000	0.0139	0.0230	0.0000		
3: Preop 6M	0.0000	0.0002	0.9534	0.0000		
4: 6M 2Y	0.1297	0.6246	0.0202	0.0460		
5: 6M 5Y	0.5238	0.7485	0.0248	0.2103		
6: 2Y 5Y	0.5144	0.9172	0.7577	0.6449		

[1] "SF36 - MCS"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	p.val_1.2
SF36 - MCS	42.99	11.84	44.89	11.70	33.08	10.00	44.99	10.04	0e+00
6M. SF36 - MCS	47.14	11.82	48.09	12.37	41.17	11.84	49.01	9.28	2e-04
1Y. SF36 - MCS	47.55	11.57	48.75	11.33	40.03	13.37	49.67	8.86	0e+00
2Y. SF36 - MCS	46.96	12.12	47.64	12.26	38.38	13.01	50.88	8.17	0e+00
5Y. SF36 - MCS	47.66	11.33	48.74	10.89	38.90	12.41	50.64	8.89	0e+00

  

	p.val_1.3	p.val_2.3	p.val_all
SF36 - MCS	0.9377	0e+00	0e+00
6M. SF36 - MCS	0.4961	1e-04	1e-04
1Y. SF36 - MCS	0.4584	0e+00	0e+00
2Y. SF36 - MCS	0.0094	0e+00	0e+00
5Y. SF36 - MCS	0.1917	0e+00	0e+00

	t0	t1	1	2	3	All
1: Preop 2Y	0.0242	0.0163	0.0000	0.0000		
2: Preop 5Y	0.0017	0.0172	0.0004	0.0000		
3: Preop 6M	0.0092	0.0001	0.0060	0.0000		
4: 6M 2Y	0.7244	0.2338	0.1533	0.8411		
5: 6M 5Y	0.6143	0.3728	0.2823	0.5974		
6: 2Y 5Y	0.3891	0.8434	0.8638	0.4752		

## Surgery

	All.mean	All.sd	1.mean	1.sd
Total Operative Blood Loss st1+st2+st3	1447.62	1262.72	1425.86	1325.97
Total surgical time st1+st2+st3	308.97	165.59	284.08	151.61
Number of Posterior Instrumented Levels	9.06	4.58	8.36	4.68
Number of Interbody Fusions	0.80	1.16	1.05	1.18
	2.mean	2.sd	3.mean	3.sd
Total Operative Blood Loss st1+st2+st3	1875.30	1275.17	1152.39	966.75
Total surgical time st1+st2+st3	336.46	169.16	341.14	182.32
Number of Posterior Instrumented Levels	9.26	4.48	10.24	4.23
Number of Interbody Fusions	0.98	1.08	0.18	0.94
	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
Total Operative Blood Loss st1+st2+st3	0.0192	0.0647	0.0004	0.0037
Total surgical time st1+st2+st3	0.0303	0.0067	0.8665	0.0056
Number of Posterior Instrumented Levels	0.1798	0.0006	0.1690	0.0032
Number of Interbody Fusions	0.6861	0.0000	0.0000	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

13 102 90

\$'Pelvic fixation'\$'1'\$proportion

variable

NA No Yes

0.06341463 0.49756098 0.43902439

\$'Pelvic fixation'\$'2'

\$'Pelvic fixation'\$'2'\$table

variable

NA No Yes

3 22 38

\$'Pelvic fixation'\$'2'\$proportion

variable

NA No Yes

0.04761905 0.34920635 0.60317460

```

$'Pelvic fixation'$'3'
$'Pelvic fixation'$'3'$table
variable
NA  No  Yes
8   90  6

```

```

$'Pelvic fixation'$'3'$proportion
variable
      NA      No      Yes
0.07692308 0.86538462 0.05769231

```

```

$'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
      Anterior Anterior-Posterior      Posterior Posterior-Anterior
      1          2          196          4
Posterior-Posterior
      2

```

```

$'Surgical Approach'$'1'$proportion
variable
      Anterior Anterior-Posterior      Posterior Posterior-Anterior
      0.004878049 0.009756098    0.956097561    0.019512195
Posterior-Posterior
      0.009756098

```

```

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

```

	Posterior	Posterior-Anterior
	56	7

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

	Posterior	Posterior-Anterior
	0.888889	0.111111

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

	Anterior-Posterior	Posterior
	2	100
	Posterior-Posterior	Posterior-Posterior-Anterior
	1	1

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

	Anterior-Posterior	Posterior
	0.019230769	0.961538462
	Posterior-Posterior	Posterior-Posterior-Anterior
	0.009615385	0.009615385

\$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  
 135 70

\$Decompression\$'1'\$proportion  
 variable  
 No Yes  
 0.6585366 0.3414634

\$Decompression\$'2'  
 \$Decompression\$'2'\$table  
 variable

No Yes  
41 22

\$Decompression\$'2'\$proportion  
variable  
No Yes  
0.6507937 0.3492063

\$Decompression\$'3'  
\$Decompression\$'3'\$table  
variable  
No Yes  
98 6

\$Decompression\$'3'\$proportion  
variable  
No Yes  
0.94230769 0.05769231

\$'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  
90 115

\$'Interbody Fusion'\$'1'\$proportion  
variable  
No Yes  
0.4390244 0.5609756

\$'Interbody Fusion'\$'2'  
\$'Interbody Fusion'\$'2'\$table  
variable  
No Yes  
28 35

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



variable  
No Yes  
0.4444444 0.5555556

\$'Interbody Fusion'\$'3'  
\$'Interbody Fusion'\$'3'\$table  
variable  
No Yes  
98 6

\$'Interbody Fusion'\$'3'\$proportion  
variable  
No Yes  
0.94230769 0.05769231

\$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  
107 98

\$Osteotomy'\$'1'\$proportion  
variable  
No Yes  
0.5219512 0.4780488

\$Osteotomy'\$'2'  
\$Osteotomy'\$'2'\$table  
variable  
No Yes  
24 39

\$Osteotomy'\$'2'\$proportion  
variable  
No Yes  
0.3809524 0.6190476

\$Osteotomy\$'3'  
 \$Osteotomy\$'3'\$table  
 variable  
 No Yes  
 70 34

\$Osteotomy\$'3'\$proportion  
 variable  
 No Yes  
 0.6730769 0.3269231

\$'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  
 174 31

\$'3C0'\$'1'\$proportion  
 variable  
 No Yes  
 0.8487805 0.1512195

\$'3C0'\$'2'  
 \$'3C0'\$'2'\$table  
 variable  
 No Yes  
 45 18

\$'3C0'\$'2'\$proportion  
 variable  
 No Yes  
 0.7142857 0.2857143

\$'3C0'\$'3'  
 \$'3C0'\$'3'\$table  
 variable

No	Yes
99	5

\$'3C0'\$'3'\$proportion  
 variable  
           No          Yes  
 0.95192308 0.04807692

## Reinterventions

	group	reiqs	patients	total
1:	1	124	63	205
2:	2	71	29	63
3:	3	19	13	104
4:	all	214	105	372

	p_val_all_1	p_val_all_2	p_val_all_3	p_val_1_2	p_val_1_3	p_val_2_3
1:	0.5903	0.0073	0.0016	0.037	7e-04	0

## Impacts

	Complication	Impact	all_num	all_patients	1_num	1_patients	2_num	2_patients
1:		0	1		1	0	0	1
2:	Adverse Event		6		5	2	2	0
3:	Major Complication		251		113	153	67	77
4:	Minor Complication		271		175	173	106	63

	3_num	3_patients	all	1	2	3	p_val_all_1	p_val_all_2	p_val_all_3
1:	0	0	372	205	63	104	1.0000	0.6719	1.0000
2:	4	3	372	205	63	104	1.0000	0.7745	0.5164
3:	21	15	372	205	63	104	0.6323	0.0052	0.0018
4:	35	28	372	205	63	104	0.3242	0.0120	0.0004

	p_val_1_2	p_val_1_3	p_val_2_3
1:	0.5314	NaN	0.7995
2:	1.0000	0.4356	0.4476
3:	0.0256	0.0010	0.0000
4:	0.0853	0.0001	0.0000

## Categories

	Category of the complication	all_num	all_patients	1_num	1_patients
1:	Central neurologic complications	1	1	1	1
2:	Iatrogenic	74	65	44	38
3:	Infectious complications	36	30	17	15
4:	Mechanical complications	224	135	130	79
5:	Other complications	124	80	83	47
6:	Pain	19	18	15	14
7:	Peripheral neurologic complications	51	43	38	31

	2_num	2_patients	3_num	3_patients	all	1	2	3	p_val_all_1	p_val_all_2
1:	0	0	0	0	372	205	63	104	1.0000	1.0000

2:	17	14	13	13 372 205 63 104	0.8370	0.4669
3:	13	10	6	5 372 205 63 104	0.8743	0.0805
4:	76	41	18	15 372 205 63 104	0.6566	0.0000
5:	22	18	19	15 372 205 63 104	0.7722	0.2808
6:	2	2	2	2 372 205 63 104	0.4180	0.7964
7:	11	10	2	2 372 205 63 104	0.2736	0.4474
	p_val_all_3	p_val_1_2	p_val_1_3	p_val_2_3		
1:	1.0000	1.0000	1.0000	NaN		
2:	0.2885	0.6420	0.2346	0.1506		
3:	0.3615	0.0727	0.5468	0.0320		
4:	0.0000	0.0004	0.0000	0.0000		
5:	0.1446	0.4556	0.1066	0.0429		
6:	0.3013	0.4432	0.1170	1.0000		
7:	0.0054	1.0000	0.0008	0.0021		