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"
```
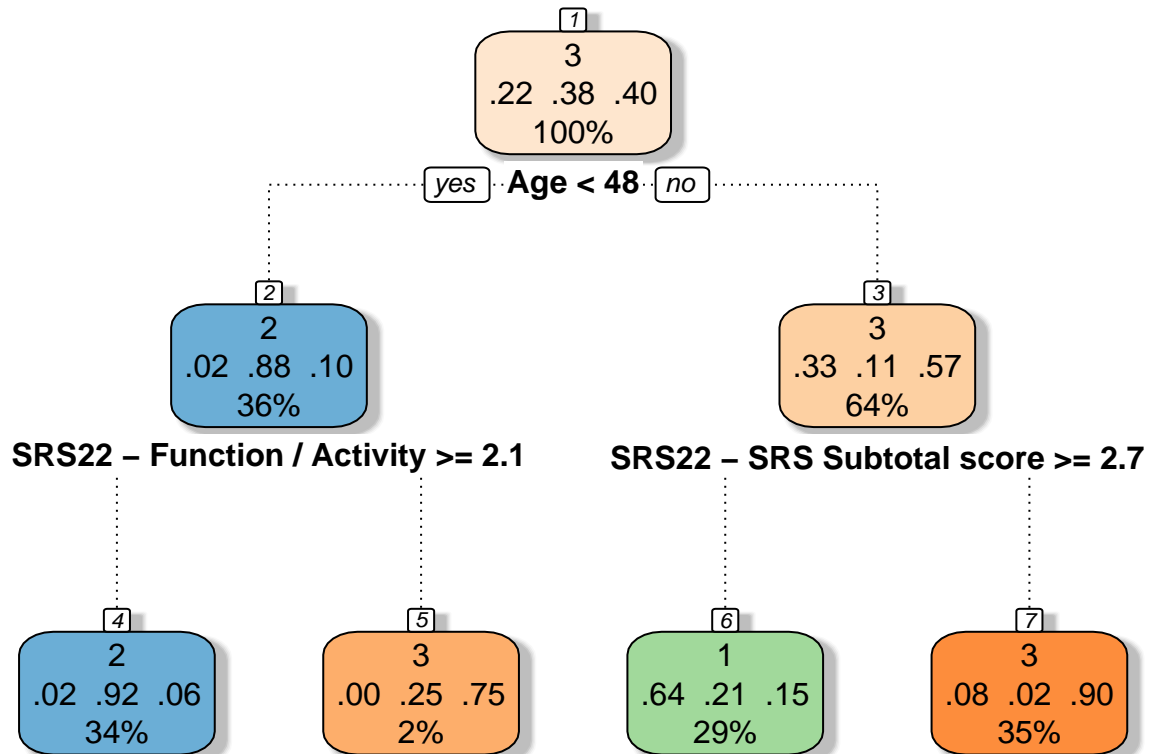
Initial Patients: 370

Number of patients

```
    cluster   N
1:        1  81
2:        2 142
3:        3 147
```

Rattle 2022–Jan–11 19:28:23 aleixrvr

Demographics

	variable	All.mean	All.sd	1.mean	1.sd
Age	Age	52.36	19.43	67.01	11.01
Height (cm)_First Visit	Height (cm)_First Visit	163.10	9.43	164.01	8.85
Weight (kgs)_First Visit	Weight (kgs)_First Visit	65.61	13.04	66.30	13.17
BMI_First Visit	BMI_First Visit	24.68	4.58	24.62	4.50

	2.mean	2.sd	3.mean	3.sd	p.val_1.2	p.val_1.3
Age	33.37	14.30	62.64	10.66	0.0000	0.0042
Height (cm)_First Visit	165.74	9.84	160.05	8.47	0.1818	0.0013
Weight (kgs)_First Visit	64.35	14.09	66.45	11.85	0.3029	0.9329
BMI_First Visit	23.38	4.47	25.97	4.39	0.0515	0.0308

	p.val_2.3	p.val_all
Age	0.000	0.0000
Height (cm)_First Visit	0.000	0.0000
Weight (kgs)_First Visit	0.172	0.3402
BMI_First Visit	0.000	0.0000

```
$Gender
$Gender$All
$Gender$All$table
variable
Female    Male
   289      81


$Gender$All$proportion
variable
    Female        Male
0.7810811 0.2189189



$Gender$`1`
$Gender$`1`$table
variable
Female    Male
    58      23

$Gender$`1`$proportion
variable
    Female        Male
0.7160494 0.2839506


$Gender$`2`
$Gender$`2`$table
variable
Female    Male
   108      34

$Gender$`2`$proportion
variable
    Female        Male
0.7605634 0.2394366
```

```
$Gender$'3'
$Gender$'3'$table
variable
Female   Male
   123     24

$Gender$'3'$proportion
variable
   Female      Male
0.8367347 0.1632653




$'Prior Spine Surgery'
$'Prior Spine Surgery'$All
$'Prior Spine Surgery'$All$table
variable
 No Yes
255 115

$'Prior Spine Surgery'$All$proportion
variable
       No       Yes
0.6891892 0.3108108


$'Prior Spine Surgery'$'1'
$'Prior Spine Surgery'$'1'$table
variable
 No Yes
 52  29

$'Prior Spine Surgery'$'1'$proportion
variable
       No       Yes
0.6419753 0.3580247


$'Prior Spine Surgery'$'2'
$'Prior Spine Surgery'$'2'$table
variable
 No Yes
115  27

$'Prior Spine Surgery'$'2'$proportion
variable
       No       Yes
0.8098592 0.1901408


$'Prior Spine Surgery'$'3'
$'Prior Spine Surgery'$'3'$table
variable
```

```
 No Yes
 88  59


$'Prior Spine Surgery'$'3'$proportion
variable
       No       Yes
0.5986395 0.4013605




$'ASA classification'
$'ASA classification'$All
$'ASA classification'$All$table
variable
  1   2   3
112 202  56

$'ASA classification'$All$proportion
variable
        1         2         3
0.3027027 0.5459459 0.1513514




$'ASA classification'$'1'
$'ASA classification'$'1'$table
variable
 1  2  3
 8 52 21

$'ASA classification'$'1'$proportion
variable
         1          2          3
0.09876543 0.64197531 0.25925926




$'ASA classification'$'2'
$'ASA classification'$'2'$table
variable
 1  2  3
86 50  6

$'ASA classification'$'2'$proportion
variable
         1          2          3
0.60563380 0.35211268 0.04225352




$'ASA classification'$'3'
$'ASA classification'$'3'$table
variable
  1   2   3
 18 100  29

$'ASA classification'$'3'$proportion
```

```
variable
        1         2         3
0.1224490 0.6802721 0.1972789




$`Tobacco use_First Visit`
$`Tobacco use_First Visit`$All
$`Tobacco use_First Visit`$All$table
variable
 Current       Ex Non-User
      74       66      230

$`Tobacco use_First Visit`$All$proportion
variable
  Current        Ex  Non-User
0.2000000 0.1783784 0.6216216


$`Tobacco use_First Visit`$`1`
$`Tobacco use_First Visit`$`1`$table
variable
 Current       Ex Non-User
      11       16       54

$`Tobacco use_First Visit`$`1`$proportion
variable
  Current        Ex  Non-User
0.1358025 0.1975309 0.6666667


$`Tobacco use_First Visit`$`2`
$`Tobacco use_First Visit`$`2`$table
variable
 Current       Ex Non-User
      28       26       88

$`Tobacco use_First Visit`$`2`$proportion
variable
  Current        Ex  Non-User
0.1971831 0.1830986 0.6197183


$`Tobacco use_First Visit`$`3`
$`Tobacco use_First Visit`$`3`$table
variable
 Current       Ex Non-User
      35       24       88

$`Tobacco use_First Visit`$`3`$proportion
variable
  Current        Ex  Non-User
0.2380952 0.1632653 0.5986395
```

```
$`ESSG Diagnosis`
$`ESSG Diagnosis`$All
$`ESSG Diagnosis`$All$table
variable
                 Congenital                 Degenerative
                         10                          132
                Failed-back                   Idiopathic
                         19                          166
               Neuromuscular Other: Ankylosing spondylitis
                          4                            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
                0.027027027                  0.356756757
                Failed-back                   Idiopathic
                0.051351351                  0.448648649
               Neuromuscular Other: Ankylosing spondylitis
                0.010810811                  0.002702703
        Other: hyperkyphosis   Other: radiotherapy induced
                0.002702703                  0.002702703
     Other: spondylolisthesis                Post-traumatic
                0.002702703                  0.040540541
                Scheuermann                     Syndromic
                0.040540541                  0.013513514



$`ESSG Diagnosis`$`1`
$`ESSG Diagnosis`$`1`$table
variable
             Degenerative              Failed-back               Idiopathic
                       55                        7                       15
Other: spondylolisthesis           Post-traumatic              Scheuermann
                        1                        2                        1

$`ESSG Diagnosis`$`1`$proportion
variable
             Degenerative              Failed-back               Idiopathic
               0.67901235               0.08641975               0.18518519
Other: spondylolisthesis           Post-traumatic              Scheuermann
               0.01234568               0.02469136               0.01234568



$`ESSG Diagnosis`$`2`
$`ESSG Diagnosis`$`2`$table
variable
```

```
                     Congenital               Degenerative
                            8                          8
                  Failed-back                 Idiopathic
                            1                        103
                Neuromuscular Other: radiotherapy induced
                            2                          1
               Post-traumatic                Scheuermann
                            3                         12
                     Syndromic
                            4
```

$`ESSG Diagnosis`$`2`$proportion
```
variable
                     Congenital               Degenerative
                  0.056338028                0.056338028
                  Failed-back                 Idiopathic
                  0.007042254                0.725352113
                Neuromuscular Other: radiotherapy induced
                  0.014084507                0.007042254
               Post-traumatic                Scheuermann
                  0.021126761                0.084507042
                     Syndromic
                  0.028169014
```

$`ESSG Diagnosis`$`3`
$`ESSG Diagnosis`$`3`$table
```
variable
                     Congenital                Degenerative
                            2                          69
                  Failed-back                  Idiopathic
                           11                          48
                Neuromuscular Other: Ankylosing spondylitis
                            2                           1
          Other: hyperkyphosis              Post-traumatic
                            1                          10
                  Scheuermann                   Syndromic
                            2                           1
```

$`ESSG Diagnosis`$`3`$proportion
```
variable
                     Congenital                Degenerative
                  0.013605442                0.469387755
                  Failed-back                  Idiopathic
                  0.074829932                0.326530612
                Neuromuscular Other: Ankylosing spondylitis
                  0.013605442                0.006802721
          Other: hyperkyphosis              Post-traumatic
                  0.006802721                0.068027211
                  Scheuermann                   Syndromic
                  0.013605442                0.006802721
```

```
$`Surgical Approach`
$`Surgical Approach`$All
$`Surgical Approach`$All$table
variable
                  Anterior          Anterior-Posterior
                         1                           4
                 Posterior          Posterior-Anterior
                       350                          11
        Posterior-Posterior Posterior-Posterior-Anterior
                         3                           1


$`Surgical Approach`$All$proportion
variable
                  Anterior          Anterior-Posterior
               0.002702703                 0.010810811
                 Posterior          Posterior-Anterior
               0.945945946                 0.029729730
        Posterior-Posterior Posterior-Posterior-Anterior
               0.008108108                 0.002702703


$`Surgical Approach`$`1`
$`Surgical Approach`$`1`$table
variable
 Anterior-Posterior           Posterior  Posterior-Anterior Posterior-Posterior
                  1                  76                   3                   1

$`Surgical Approach`$`1`$proportion
variable
 Anterior-Posterior           Posterior  Posterior-Anterior Posterior-Posterior
         0.01234568          0.93827160          0.03703704          0.01234568


$`Surgical Approach`$`2`
$`Surgical Approach`$`2`$table
variable
                  Anterior          Anterior-Posterior
                         1                           3
                 Posterior         Posterior-Posterior
                       136                           1
Posterior-Posterior-Anterior
                         1

$`Surgical Approach`$`2`$proportion
variable
                  Anterior          Anterior-Posterior
               0.007042254                 0.021126761
                 Posterior         Posterior-Posterior
               0.957746479                 0.007042254
Posterior-Posterior-Anterior
               0.007042254


$`Surgical Approach`$`3`
```

```
$'Surgical Approach'$'3'$table
variable
        Posterior  Posterior-Anterior Posterior-Posterior
              138                   8                   1

$'Surgical Approach'$'3'$proportion
variable
        Posterior  Posterior-Anterior Posterior-Posterior
      0.938775510         0.054421769         0.006802721
```

Radiology

```
[1] "Static Major curve Cobb angle"


                                 All.mean All.sd 1.mean  1.sd 2.mean  2.sd
Static Major curve Cobb angle       42.38  21.32  32.64 15.93  54.69 20.38
6W. Static Major curve Cobb angle   22.96  16.26  18.99 13.73  28.97 18.53
6M. Static Major curve Cobb angle   22.88  17.12  17.03 12.01  29.41 19.63
1Y. Static Major curve Cobb angle   20.61  15.97  16.96 13.76  26.14 17.99
2Y. Static Major curve Cobb angle   22.34  16.89  16.88 13.39  29.00 19.50
5Y. Static Major curve Cobb angle   25.54  17.29  19.01 11.47  33.07 18.31
                                 3.mean  3.sd p.val_1.2 p.val_1.3 p.val_2.3
Static Major curve Cobb angle     35.98 19.20      0e+00    0.1726     0e+00
6W. Static Major curve Cobb angle 19.07 13.02      0e+00    0.9690     0e+00
6M. Static Major curve Cobb angle 19.40 14.46      0e+00    0.2381     0e+00
1Y. Static Major curve Cobb angle 17.07 13.25      1e-04    0.9546     0e+00
2Y. Static Major curve Cobb angle 18.43 13.16      0e+00    0.4795     0e+00
5Y. Static Major curve Cobb angle 22.02 16.19      2e-04    0.3458     9e-04
                                 p.val_all
Static Major curve Cobb angle        0e+00
6W. Static Major curve Cobb angle    0e+00
6M. Static Major curve Cobb angle    0e+00
1Y. Static Major curve Cobb angle    0e+00
2Y. Static Major curve Cobb angle    0e+00
5Y. Static Major curve Cobb angle    3e-04


      t0 t1      1      2      3    All
1: Preop 2Y 0.0000 0.0000 0.0000 0.0000
2: Preop 5Y 0.0001 0.0000 0.0000 0.0000
3: Preop 6W 0.0000 0.0000 0.0000 0.0000
4:    6W 2Y 0.3892 0.9894 0.7072 0.6501
5:    6W 5Y 0.9957 0.1830 0.1945 0.1328
6:    2Y 5Y 0.4927 0.2018 0.1213 0.0713




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


                             All.mean All.sd 1.mean  1.sd 2.mean  2.sd
Coronal Balance (C7PL to CSVL)  22.37  19.09  31.13 18.77  19.21 13.90
```

```
6W. Coronal Balance (C7PL to CSVL)     20.18  15.08  20.33 17.26  18.78 13.89
6M. Coronal Balance (C7PL to CSVL)     18.63  14.72  19.44 15.55  15.65 11.37
1Y. Coronal Balance (C7PL to CSVL)     18.02  13.84  19.06 12.62  15.55 11.51
2Y. Coronal Balance (C7PL to CSVL)     17.93  15.23  18.65 17.27  14.96 12.43
5Y. Coronal Balance (C7PL to CSVL)     20.81  17.32  23.49 14.07  14.97 11.72
                                     3.mean  3.sd p.val_1.2 p.val_1.3 p.val_2.3
Coronal Balance (C7PL to CSVL)        20.63 21.87    0.0000    0.0003    0.5259
6W. Coronal Balance (C7PL to CSVL)    21.45 15.14    0.5620    0.6792    0.1577
6M. Coronal Balance (C7PL to CSVL)    20.99 16.58    0.1127    0.5501    0.0047
1Y. Coronal Balance (C7PL to CSVL)    19.91 15.97    0.0942    0.7132    0.0184
2Y. Coronal Balance (C7PL to CSVL)    20.14 16.08    0.1750    0.5974    0.0099
5Y. Coronal Balance (C7PL to CSVL)    24.30 20.37    0.0228    0.8395    0.0019
                                     p.val_all
Coronal Balance (C7PL to CSVL)          0.0000
6W. Coronal Balance (C7PL to CSVL)      0.3940
6M. Coronal Balance (C7PL to CSVL)      0.0209
1Y. Coronal Balance (C7PL to CSVL)      0.0489
2Y. Coronal Balance (C7PL to CSVL)      0.0477
5Y. Coronal Balance (C7PL to CSVL)      0.0096


        t0 t1      1      2      3     All
1: Preop 2Y 0.0002 0.0177 0.8394 0.0017
2: Preop 5Y 0.0532 0.0415 0.2323 0.3844
3: Preop 6W 0.0010 0.8108 0.7215 0.1078
4:    6W 2Y 0.6132 0.0359 0.5240 0.0837
5:    6W 5Y 0.4243 0.0699 0.3110 0.7103
6:    2Y 5Y 0.2259 0.9965 0.1504 0.0995




[1] "Sagittal Balance"

                  All.mean All.sd 1.mean  1.sd 2.mean  2.sd 3.mean  3.sd
Sagittal Balance     40.94  62.42  90.16 66.34  -3.61 32.14  58.64 54.05
6W. Sagittal Balance 18.93  37.95  37.02 37.30  -0.26 32.50  28.25 35.49
6M. Sagittal Balance 16.74  44.75  34.34 46.83  -2.63 34.71  26.96 45.77
1Y. Sagittal Balance 19.20  48.86  45.94 45.40  -3.48 39.65  28.73 49.37
2Y. Sagittal Balance 24.01  48.87  46.07 45.47  -1.57 38.13  36.89 49.28
5Y. Sagittal Balance 34.29  48.85  51.88 43.04  12.97 38.90  44.41 51.98
                  p.val_1.2 p.val_1.3 p.val_2.3 p.val_all
Sagittal Balance      0.000    0.0006     0e+00     0e+00
6W. Sagittal Balance  0.000    0.1380     0e+00     0e+00
6M. Sagittal Balance  0.000    0.3236     0e+00     0e+00
1Y. Sagittal Balance  0.000    0.0248     0e+00     0e+00
2Y. Sagittal Balance  0.000    0.2508     0e+00     0e+00
5Y. Sagittal Balance  0.001    0.5100     2e-04     3e-04


        t0 t1      1      2      3     All
1: Preop 2Y 0.0000 0.6668 0.0010 0.0002
2: Preop 5Y 0.0028 0.0081 0.0662 0.2087
3: Preop 6W 0.0000 0.4140 0.0000 0.0000
4:    6W 2Y 0.2671 0.7883 0.1277 0.1751
5:    6W 5Y 0.1712 0.0368 0.0217 0.0011
6:    2Y 5Y 0.6128 0.0313 0.3332 0.0441
```

```
[1] "Sagittal T2-T5"


                   All.mean All.sd 1.mean  1.sd 2.mean  2.sd 3.mean  3.sd
Sagittal T2-T5        11.11   9.85  11.41 10.60  11.11  9.37  10.96  9.94
6W. Sagittal T2-T5    13.64   8.19  14.58  7.76  13.29  8.03  13.54  8.56
6M. Sagittal T2-T5    14.04   9.63  14.99 10.27  13.67  8.30  13.94 10.57
1Y. Sagittal T2-T5    13.92   9.59  14.35  9.77  14.01  8.86  13.63 10.20
2Y. Sagittal T2-T5    14.35   9.97  13.49 10.46  14.96  9.25  14.16 10.45
5Y. Sagittal T2-T5    15.76  11.63  16.52 10.72  14.82 10.76  16.22 12.58
                   p.val_1.2 p.val_1.3 p.val_2.3 p.val_all
Sagittal T2-T5        0.8402    0.7669    0.9023    0.9524
6W. Sagittal T2-T5    0.3076    0.4145    0.8195    0.6082
6M. Sagittal T2-T5    0.3929    0.5274    0.8238    0.6843
1Y. Sagittal T2-T5    0.8269    0.6521    0.7581    0.8892
2Y. Sagittal T2-T5    0.3919    0.7046    0.5494    0.6634
5Y. Sagittal T2-T5    0.5436    0.9141    0.5085    0.7657


      t0 t1      1      2      3    All
1: Preop 2Y 0.2767 0.0017 0.0141 0.0001
2: Preop 5Y 0.0626 0.0322 0.0027 0.0000
3: Preop 6W 0.0501 0.0482 0.0241 0.0004
4:    6W 2Y 0.5408 0.1512 0.6184 0.3566
5:    6W 5Y 0.4548 0.3633 0.1136 0.0515
6:    2Y 5Y 0.2794 0.9348 0.2531 0.2203




[1] "Sagittal T5-T12"


                    All.mean All.sd 1.mean  1.sd 2.mean  2.sd 3.mean  3.sd
Sagittal T5-T12        32.95  18.75  29.62 19.38  34.68 20.23  33.01 16.81
6W. Sagittal T5-T12    33.69  13.83  34.79 14.02  31.19 14.58  35.52 12.72
6M. Sagittal T5-T12    34.62  13.89  35.72 15.05  31.25 13.82  37.39 12.76
1Y. Sagittal T5-T12    35.43  13.85  36.77 14.36  32.11 13.51  37.92 13.42
2Y. Sagittal T5-T12    36.28  15.66  37.68 15.04  32.24 12.75  39.55 17.65
5Y. Sagittal T5-T12    40.10  16.53  41.61 14.37  34.83 17.38  43.46 15.70
                    p.val_1.2 p.val_1.3 p.val_2.3 p.val_all
Sagittal T5-T12        0.0773    0.2029    0.4537    0.1749
6W. Sagittal T5-T12    0.1111    0.7337    0.0136    0.0372
6M. Sagittal T5-T12    0.0574    0.4616    0.0003    0.0017
1Y. Sagittal T5-T12    0.0448    0.6117    0.0010    0.0035
2Y. Sagittal T5-T12    0.0259    0.4833    0.0005    0.0017
5Y. Sagittal T5-T12    0.0935    0.6133    0.0054    0.0137


      t0 t1      1      2      3    All
1: Preop 2Y 0.0095 0.2515 0.0029 0.0154
2: Preop 5Y 0.0034 0.9605 0.0000 0.0000
3: Preop 6W 0.0760 0.1112 0.1624 0.5579
4:    6W 2Y 0.2955 0.5593 0.0466 0.0358
5:    6W 5Y 0.0683 0.1894 0.0004 0.0001
6:    2Y 5Y 0.3021 0.3413 0.1178 0.0227
```

[1] "Sagittal T2-T12"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd
Sagittal T2-T12	39.97	19.66	37.38	21.52	40.96	20.22	40.36	18.12
6W. Sagittal T2-T12	43.10	15.30	43.95	16.60	39.89	15.71	45.79	13.74
6M. Sagittal T2-T12	44.71	15.25	46.74	16.45	41.54	14.19	46.97	15.26
1Y. Sagittal T2-T12	44.92	15.31	46.79	16.48	41.60	14.11	47.26	15.40
2Y. Sagittal T2-T12	45.73	15.44	45.87	17.44	42.62	13.41	48.63	15.87
5Y. Sagittal T2-T12	49.45	16.87	51.74	15.19	43.85	14.83	52.88	17.83

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
Sagittal T2-T12	0.2402	0.3085	0.7911	0.4300
6W. Sagittal T2-T12	0.1179	0.4567	0.0019	0.0084
6M. Sagittal T2-T12	0.0391	0.9270	0.0039	0.0096
1Y. Sagittal T2-T12	0.0436	0.8570	0.0032	0.0091
2Y. Sagittal T2-T12	0.2376	0.3327	0.0024	0.0135
5Y. Sagittal T2-T12	0.0503	0.7751	0.0027	0.0099

	t0	t1	1	2	3	All
1:	Preop	2Y	0.0161	0.4423	0.0001	0.0000
2:	Preop	5Y	0.0012	0.2853	0.0000	0.0000
3:	Preop	6W	0.0482	0.6325	0.0052	0.0213
4:	6W	2Y	0.5523	0.1555	0.1392	0.0397
5:	6W	5Y	0.0555	0.1170	0.0044	0.0002
6:	2Y	5Y	0.1598	0.6131	0.1028	0.0279

[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)	-43.94	20.31	-33.02	18.46	-54.49	18.75	-39.63
6W. Lordosis (top of L1-S1)	-51.21	14.24	-47.51	14.68	-53.43	13.45	-51.07
6M. Lordosis (top of L1-S1)	-51.02	14.07	-47.93	14.56	-53.70	13.47	-50.01
1Y. Lordosis (top of L1-S1)	-51.30	14.27	-46.11	14.54	-54.55	13.74	-50.88
2Y. Lordosis (top of L1-S1)	-51.74	14.99	-46.93	17.96	-55.11	13.31	-50.77
5Y. Lordosis (top of L1-S1)	-50.64	15.97	-47.02	14.36	-52.35	17.16	-50.49

	3.sd	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
Lordosis (top of L1-S1)	17.99	0.0000	0.0105	0.0000	0.0000
6W. Lordosis (top of L1-S1)	14.40	0.0048	0.0930	0.1643	0.0158
6M. Lordosis (top of L1-S1)	14.02	0.0069	0.3308	0.0309	0.0120
1Y. Lordosis (top of L1-S1)	13.89	0.0002	0.0285	0.0356	0.0004
2Y. Lordosis (top of L1-S1)	14.29	0.0031	0.1615	0.0176	0.0021
5Y. Lordosis (top of L1-S1)	15.54	0.1741	0.3368	0.5343	0.4206

	t0	t1	1	2	3	All
1:	Preop	2Y	0.0000	0.7575	0.0000	0.0000
2:	Preop	5Y	0.0005	0.4512	0.0000	0.0001
3:	Preop	6W	0.0000	0.5909	0.0000	0.0000
4:	6W	2Y	0.8447	0.3271	0.8719	0.6493
5:	6W	5Y	0.8890	0.6805	0.7929	0.7076
6:	2Y	5Y	0.9832	0.3026	0.8983	0.4863

[1] "Pelvic Incidence"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd
Pelvic Incidence	54.13	13.06	57.29	12.77	49.50	11.46	56.79	13.46
6W. Pelvic Incidence	54.19	12.92	57.08	13.27	49.50	11.22	57.09	13.00
6M. Pelvic Incidence	54.04	12.66	56.61	12.82	50.15	11.11	56.51	13.12
1Y. Pelvic Incidence	53.67	12.59	55.59	12.31	49.42	11.65	56.74	12.55
2Y. Pelvic Incidence	53.81	12.44	56.17	12.70	50.00	10.69	56.36	13.04
5Y. Pelvic Incidence	54.90	12.41	53.17	12.33	51.75	11.09	57.74	12.84

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
Pelvic Incidence	0.0000	0.7823	0.0000	0.0000
6W. Pelvic Incidence	0.0001	0.9959	0.0000	0.0000
6M. Pelvic Incidence	0.0005	0.9564	0.0000	0.0000
1Y. Pelvic Incidence	0.0010	0.5381	0.0000	0.0000
2Y. Pelvic Incidence	0.0024	0.9255	0.0001	0.0001
5Y. Pelvic Incidence	0.6437	0.1409	0.0062	0.0213

	t0	t1	1	2	3	All
1:	Preop	2Y	0.6128	0.7182	0.7933	0.7501
2:	Preop	5Y	0.1771	0.2148	0.6155	0.5344
3:	Preop	6W	0.9201	0.9998	0.8498	0.9520
4:	6W	2Y	0.6920	0.7201	0.6579	0.7097
5:	6W	5Y	0.2083	0.2169	0.7314	0.5698
6:	2Y	5Y	0.3441	0.3398	0.4786	0.3900

[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	21.95	10.89	27.27	9.02	13.57	7.91	26.72	9.41	0.0000
6W. Pelvic Tilt	18.17	9.65	21.73	9.04	12.47	8.34	21.64	8.55	0.0000
6M. Pelvic Tilt	19.54	9.98	23.19	8.54	13.45	8.62	23.50	8.98	0.0000
1Y. Pelvic Tilt	19.33	10.19	23.39	8.41	13.08	9.37	23.14	8.79	0.0000
2Y. Pelvic Tilt	19.24	9.45	23.47	8.18	13.19	7.89	23.01	8.32	0.0000
5Y. Pelvic Tilt	21.93	9.91	22.93	7.96	15.85	8.86	26.10	8.96	0.0015

	p.val_1.3	p.val_2.3	p.val_all
Pelvic Tilt	0.6682	0	0
6W. Pelvic Tilt	0.9445	0	0
6M. Pelvic Tilt	0.8105	0	0
1Y. Pelvic Tilt	0.8409	0	0
2Y. Pelvic Tilt	0.7271	0	0
5Y. Pelvic Tilt	0.1201	0	0

	t0	t1	1	2	3	All
1:	Preop	2Y	0.0122	0.7039	0.0008	0.0008
2:	Preop	5Y	0.0345	0.1069	0.6405	0.9888
3:	Preop	6W	0.0002	0.2717	0.0000	0.0000
4:	6W	2Y	0.2529	0.4912	0.1986	0.1652
5:	6W	5Y	0.5510	0.0196	0.0007	0.0001
6:	2Y	5Y	0.7885	0.0657	0.0191	0.0070

[1] "Sacral Slope"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd
Sacral Slope	32.63	11.10	30.61	11.07	36.31	9.94	30.19	11.27
6W. Sacral Slope	35.95	10.11	35.15	10.71	36.92	8.86	35.44	10.87
6M. Sacral Slope	34.47	9.94	33.21	11.13	36.72	8.56	32.93	10.19
1Y. Sacral Slope	34.37	9.59	31.99	9.80	36.49	9.49	33.57	9.22
2Y. Sacral Slope	34.66	10.38	32.62	11.24	36.96	9.63	33.40	10.32
5Y. Sacral Slope	32.97	10.72	30.24	11.43	35.92	10.48	31.63	10.32

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
Sacral Slope	0.0002	0.7872	0.0000	0.0000
6W. Sacral Slope	0.2321	0.8527	0.2236	0.3678
6M. Sacral Slope	0.0234	0.8594	0.0013	0.0040
1Y. Sacral Slope	0.0027	0.2751	0.0137	0.0037
2Y. Sacral Slope	0.0150	0.6634	0.0072	0.0084
5Y. Sacral Slope	0.0522	0.6134	0.0247	0.0363

	t0	t1	1	2	3	All
1:	Preop	2Y	0.3050	0.5994	0.0169	0.0169
2:	Preop	5Y	0.8932	0.8151	0.3489	0.7481
3:	Preop	6W	0.0112	0.5979	0.0001	0.0000
4:	6W	2Y	0.1989	0.9688	0.1273	0.1171
5:	6W	5Y	0.0826	0.5446	0.0140	0.0046
6:	2Y	5Y	0.4110	0.5420	0.2547	0.1186

[1] "RLL"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	p.val_1.2
RLL	-18.66	20.17	-31.54	16.93	-5.08	17.29	-24.58	16.68	0.0000
6W. RLL	-11.32	13.09	-16.90	12.35	-5.90	12.33	-13.38	12.37	0.0000
6M. RLL	-11.45	13.13	-16.17	12.25	-6.50	12.65	-13.81	12.52	0.0000
1Y. RLL	-11.08	13.71	-17.36	13.16	-5.21	12.86	-13.33	12.71	0.0000
2Y. RLL	-10.42	13.92	-16.75	15.69	-4.83	11.97	-12.79	12.86	0.0000
5Y. RLL	-12.40	14.34	-14.95	11.48	-8.74	15.46	-14.31	13.89	0.0608

	p.val_1.3	p.val_2.3	p.val_all
RLL	0.0035	0.0000	0.0000
6W. RLL	0.0514	0.0000	0.0000
6M. RLL	0.1992	0.0000	0.0000
1Y. RLL	0.0419	0.0000	0.0000
2Y. RLL	0.1037	0.0000	0.0000
5Y. RLL	0.8295	0.0401	0.0653

	t0	t1	1	2	3	All
1:	Preop	2Y	0.0000	0.8920	0.0000	0.0000
2:	Preop	5Y	0.0000	0.1590	0.0000	0.0001
3:	Preop	6W	0.0000	0.6519	0.0000	0.0000
4:	6W	2Y	0.9522	0.4931	0.7101	0.4080
5:	6W	5Y	0.4965	0.2389	0.6339	0.4357
6:	2Y	5Y	0.5791	0.1074	0.4524	0.1703

[1] "Global Tilt"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd
Global Tilt	26.16	17.66	38.37	16.37	11.27	9.98	33.37	14.14
6W. Global Tilt	18.63	12.15	24.39	11.59	10.48	9.54	23.47	10.33
6M. Global Tilt	20.37	13.67	26.77	12.52	12.01	11.07	25.10	12.50
1Y. Global Tilt	20.68	13.93	27.81	12.46	11.98	11.51	25.07	12.58
2Y. Global Tilt	20.82	13.93	27.92	11.85	11.26	11.12	26.31	12.17
5Y. Global Tilt	24.89	14.93	27.82	11.80	16.17	12.26	30.41	14.73

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
Global Tilt	0e+00	0.0278	0	0
6W. Global Tilt	0e+00	0.6044	0	0
6M. Global Tilt	0e+00	0.4013	0	0
1Y. Global Tilt	0e+00	0.1730	0	0
2Y. Global Tilt	0e+00	0.4228	0	0
5Y. Global Tilt	4e-04	0.4010	0	0

	t0	t1	1	2	3	All
1:	Preop	2Y	0.0001	0.9919	0.0000	0.0000
2:	Preop	5Y	0.0017	0.0117	0.1612	0.4136
3:	Preop	6W	0.0000	0.5248	0.0000	0.0000
4:	6W	2Y	0.1166	0.5808	0.0566	0.0479
5:	6W	5Y	0.2502	0.0037	0.0006	0.0000
6:	2Y	5Y	0.9730	0.0163	0.0508	0.0070

[1] "T1 Sagittal Tilt"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd
T1 Sagittal Tilt	-1.92	6.10	2.38	7.01	-4.84	3.79	-1.29	5.97
6W. T1 Sagittal Tilt	-3.58	4.01	-2.56	4.40	-4.05	3.66	-3.64	4.09
6M. T1 Sagittal Tilt	-4.14	4.30	-3.20	4.89	-4.80	3.35	-3.97	4.72
1Y. T1 Sagittal Tilt	-3.90	5.00	-2.71	5.16	-4.64	4.36	-3.79	5.37
2Y. T1 Sagittal Tilt	-3.67	4.43	-2.29	4.84	-4.75	3.48	-3.36	4.79
5Y. T1 Sagittal Tilt	-2.75	4.89	-1.34	4.60	-3.42	3.62	-2.71	5.67

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
T1 Sagittal Tilt	0.0000	0.0005	0.0000	0.0000
6W. T1 Sagittal Tilt	0.0358	0.1361	0.4379	0.0849
6M. T1 Sagittal Tilt	0.0275	0.3231	0.1280	0.0603
1Y. T1 Sagittal Tilt	0.0239	0.2208	0.2045	0.0747
2Y. T1 Sagittal Tilt	0.0017	0.1939	0.0182	0.0032
5Y. T1 Sagittal Tilt	0.0683	0.2553	0.3972	0.2465

	t0	t1	1	2	3	All
1:	Preop	2Y	0.0000	0.8507	0.0033	0.0001
2:	Preop	5Y	0.0064	0.0207	0.0962	0.1164
3:	Preop	6W	0.0000	0.1069	0.0004	0.0001
4:	6W	2Y	0.7627	0.1619	0.6474	0.8134
5:	6W	5Y	0.2931	0.3079	0.2311	0.0800
6:	2Y	5Y	0.4273	0.0323	0.4237	0.0624

[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	20.54	9.72	17.89	8.26	21.74	11.86	20.56
6W. Thoracolumbar L2-T10	4.88	12.51	7.55	11.41	2.11	13.67	6.24	11.38
6M. Thoracolumbar L2-T10	5.07	12.17	7.94	10.59	2.45	14.19	6.17	10.24
1Y. Thoracolumbar L2-T10	5.27	12.67	8.58	10.74	2.22	15.12	6.55	10.23
2Y. Thoracolumbar L2-T10	6.02	12.80	8.06	13.29	3.73	13.61	7.25	11.47
5Y. Thoracolumbar L2-T10	7.26	14.64	11.14	16.95	3.59	15.86	8.73	12.47

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
Thoracolumbar L2-T10	0.6070	0.4359	0.1556	0.3378
6W. Thoracolumbar L2-T10	0.0054	0.4652	0.0112	0.0061
6M. Thoracolumbar L2-T10	0.0043	0.2847	0.0218	0.0073
1Y. Thoracolumbar L2-T10	0.0018	0.2311	0.0113	0.0025
2Y. Thoracolumbar L2-T10	0.0569	0.7017	0.0404	0.0543
5Y. Thoracolumbar L2-T10	0.0825	0.5413	0.0552	0.0620

	t0	t1	1	2	3	All
1:	Preop	2Y	0.5568	0.0484	0.0235	0.0029
2:	Preop	5Y	0.7370	0.1082	0.1664	0.0905
3:	Preop	6W	0.4035	0.0067	0.0052	0.0001
4:	6W	2Y	0.8263	0.3742	0.5005	0.2796
5:	6W	5Y	0.3646	0.5610	0.1670	0.0918
6:	2Y	5Y	0.4527	0.9570	0.4185	0.3897

[1] "RSA"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean	3.sd	p.val_1.2
RSA	15.12	15.32	26.01	14.43	2.40	8.80	21.03	12.29	0e+00
6W. RSA	7.56	9.52	11.85	8.85	1.66	7.74	11.01	8.55	0e+00
6M. RSA	9.37	10.81	14.56	10.19	2.99	8.99	12.83	9.76	0e+00
1Y. RSA	9.73	11.01	16.20	9.79	3.07	9.44	12.60	9.77	0e+00
2Y. RSA	9.98	11.58	16.06	10.21	2.21	9.56	14.31	9.86	0e+00
5Y. RSA	13.54	12.84	17.30	10.37	6.33	11.31	17.70	12.35	2e-04

	p.val_1.3	p.val_2.3	p.val_all
RSA	0.0128	0	0
6W. RSA	0.5467	0	0
6M. RSA	0.2777	0	0
1Y. RSA	0.0235	0	0
2Y. RSA	0.3042	0	0
5Y. RSA	0.8805	0	0

	t0	t1	1	2	3	All
1:	Preop	2Y	0.0000	0.8726	0.0000	0.0000
2:	Preop	5Y	0.0030	0.0264	0.0632	0.2406
3:	Preop	6W	0.0000	0.4840	0.0000	0.0000
4:	6W	2Y	0.0231	0.6466	0.0069	0.0072
5:	6W	5Y	0.0360	0.0080	0.0001	0.0000
6:	2Y	5Y	0.6392	0.0257	0.0518	0.0056

[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        -8.37   9.08 -12.40 8.11  -1.89 7.00 -12.36 7.69    0.0000    0.9696
6W. RPV    -5.00   7.61  -7.53 7.37  -1.22 6.59  -7.24 7.22    0.0000    0.7890
6M. RPV    -6.42   7.80  -9.19 7.36  -1.86 6.60  -9.41 6.97    0.0000    0.8362
1Y. RPV    -6.32   7.85  -9.81 6.72  -1.71 7.49  -8.89 6.53    0.0000    0.3625
2Y. RPV    -6.10   7.77  -9.52 7.21  -1.54 6.92  -8.86 6.62    0.0000    0.5638
5Y. RPV    -8.42   8.24 -10.13 7.36  -3.61 7.86 -11.43 7.15    0.0014    0.4692
        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 0.0316 0.6922 0.0001 0.0006
2: Preop 5Y 0.2186 0.1652 0.3816 0.9537
3: Preop 6W 0.0002 0.4209 0.0000 0.0000
4:    6W 2Y 0.1270 0.7138 0.0646 0.0759
5:    6W 5Y 0.1555 0.0541 0.0001 0.0000
6:    2Y 5Y 0.7414 0.1033 0.0144 0.0051
```

Quality of Life

[1] "ODI - Score (%)"

```
                 All.mean All.sd 1.mean  1.sd 2.mean  2.sd 3.mean  3.sd
ODI - Score (%)     37.21  19.78  33.32 13.74  22.75 15.54  52.99 13.80
6M. ODI - Score (%) 28.12  17.87  24.31 14.44  19.85 14.17  37.79 18.12
1Y. ODI - Score (%) 25.50  17.88  23.07 14.87  15.91 13.04  36.13 17.78
2Y. ODI - Score (%) 27.29  21.11  23.00 17.59  16.44 14.53  40.41 21.43
5Y. ODI - Score (%) 28.03  21.21  23.93 18.11  16.97 15.60  39.46 21.22
                 p.val_1.2 p.val_1.3 p.val_2.3 p.val_all
ODI - Score (%)     0.0000         0         0         0
6M. ODI - Score (%) 0.0353         0         0         0
1Y. ODI - Score (%) 0.0008         0         0         0
2Y. ODI - Score (%) 0.0070         0         0         0
5Y. ODI - Score (%) 0.0204         0         0         0


      t0 t1      1      2      3     All
1: Preop 2Y 0.0001 0.0007 0.0000 0.0000
2: Preop 5Y 0.0016 0.0075 0.0000 0.0000
3: Preop 6M 0.0001 0.1188 0.0000 0.0000
4:    6M 2Y 0.6197 0.0600 0.2810 0.5831
```

```
5:    6M 5Y 0.8982 0.1714 0.5197 0.9565
6:    2Y 5Y 0.7709 0.8028 0.7334 0.6770
```

[1] "SRS22 - Function / Activity"

```
                               All.mean All.sd 1.mean 1.sd 2.mean 2.sd 3.mean
SRS22 - Function / Activity        3.10   0.87   3.21 0.54   3.69 0.84    2.48
6M. SRS22 - Function / Activity    3.27   0.81   3.31 0.64   3.67 0.79    2.86
1Y. SRS22 - Function / Activity    3.41   0.89   3.43 0.63   3.91 0.83    2.91
2Y. SRS22 - Function / Activity    3.48   0.93   3.50 0.74   4.03 0.79    2.92
5Y. SRS22 - Function / Activity    3.51   0.90   3.60 0.73   4.00 0.78    3.06
                               3.sd p.val_1.2 p.val_1.3 p.val_2.3 p.val_all
SRS22 - Function / Activity     0.57    0.0000         0         0         0
6M. SRS22 - Function / Activity 0.72    0.0005         0         0         0
1Y. SRS22 - Function / Activity 0.78    0.0000         0         0         0
2Y. SRS22 - Function / Activity 0.81    0.0000         0         0         0
5Y. SRS22 - Function / Activity 0.85    0.0025         0         0         0


       t0 t1      1      2      3    All
1: Preop 2Y 0.0055 0.0007 0.0000 0.0000
2: Preop 5Y 0.0009 0.0046 0.0000 0.0000
3: Preop 6M 0.2940 0.8732 0.0000 0.0080
4:    6M 2Y 0.0893 0.0003 0.5057 0.0015
5:    6M 5Y 0.0185 0.0025 0.0606 0.0007
6:    2Y 5Y 0.4380 0.8127 0.2211 0.6574
```

[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      2.63   0.97   2.95 0.59   3.19 0.98   1.93 0.65    0.0224
6M. SRS22 - Pain  3.43   0.89   3.74 0.75   3.65 0.88   3.06 0.85    0.4289
1Y. SRS22 - Pain  3.58   0.97   3.91 0.73   3.95 0.80   3.03 0.99    0.7507
2Y. SRS22 - Pain  3.50   1.09   3.85 0.85   3.89 0.92   2.91 1.11    0.7301
5Y. SRS22 - Pain  3.39   1.12   3.73 0.86   3.77 1.03   2.89 1.14    0.7732
              p.val_1.3 p.val_2.3 p.val_all
SRS22 - Pain          0         0         0
6M. SRS22 - Pain      0         0         0
1Y. SRS22 - Pain      0         0         0
2Y. SRS22 - Pain      0         0         0
5Y. SRS22 - Pain      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 0.0001 0.0000 0.0000
4:    6M 2Y 0.4324 0.0326 0.2087 0.4087
5:    6M 5Y 0.9259 0.3490 0.1976 0.6127
6:    2Y 5Y 0.4418 0.3968 0.8949 0.2478
```

[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	2.70	0.70	2.79	0.69
6M. SRS22 - Self image / Appearance	3.48	0.83	3.66	0.75	3.76	0.73
1Y. SRS22 - Self image / Appearance	3.53	0.80	3.67	0.64	3.86	0.68
2Y. SRS22 - Self image / Appearance	3.43	0.93	3.57	0.77	3.85	0.78
5Y. SRS22 - Self image / Appearance	3.38	0.93	3.58	0.69	3.81	0.76

	3.mean	3.sd	p.val_1.2	p.val_1.3	p.val_2.3
SRS22 - Self image / Appearance	1.92	0.55	0.3640	0	0
6M. SRS22 - Self image / Appearance	3.13	0.84	0.3331	0	0
1Y. SRS22 - Self image / Appearance	3.13	0.81	0.0469	0	0
2Y. SRS22 - Self image / Appearance	2.94	0.93	0.0120	0	0
5Y. SRS22 - Self image / Appearance	2.91	0.96	0.0683	0	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
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	0.4855	0.3255	0.0797	0.4487
5:	6M	5Y	0.5591	0.6596	0.0736	0.1597
6:	2Y	5Y	0.9203	0.6586	0.8589	0.4945

[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	3.83	0.64	3.43	0.70	2.56	0.71
6M. SRS22 - Mental health	3.56	0.85	3.99	0.73	3.75	0.68	3.14	0.87
1Y. SRS22 - Mental health	3.61	0.83	4.04	0.63	3.80	0.68	3.19	0.87
2Y. SRS22 - Mental health	3.51	0.94	3.95	0.78	3.79	0.77	2.99	0.95
5Y. SRS22 - Mental health	3.56	0.89	4.05	0.67	3.86	0.69	3.06	0.88

	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
SRS22 - Mental health	0.0001	0	0	0
6M. SRS22 - Mental health	0.0214	0	0	0
1Y. SRS22 - Mental health	0.0131	0	0	0
2Y. SRS22 - Mental health	0.1571	0	0	0
5Y. SRS22 - Mental health	0.1040	0	0	0

	t0	t1	1	2	3	All
1:	Preop	2Y	0.2896	0.0001	0.0000	0.0000
2:	Preop	5Y	0.0602	0.0000	0.0000	0.0000
3:	Preop	6M	0.1514	0.0003	0.0000	0.0000
4:	6M	2Y	0.7541	0.6194	0.1731	0.5293
5:	6M	5Y	0.6412	0.2404	0.4782	0.9418
6:	2Y	5Y	0.4477	0.5031	0.5505	0.5209

[1] "SRS22 - SRS Subtotal score"

	All.mean	All.sd	1.mean	1.sd	2.mean	2.sd	3.mean
SRS22 - SRS Subtotal score	2.84	0.70	3.18	0.37	3.28	0.62	2.23
6M. SRS22 - SRS Subtotal score	3.44	0.69	3.68	0.57	3.71	0.60	3.05
1Y. SRS22 - SRS Subtotal score	3.54	0.73	3.77	0.51	3.88	0.60	3.08
2Y. SRS22 - SRS Subtotal score	3.48	0.85	3.71	0.66	3.89	0.67	2.94
5Y. SRS22 - SRS Subtotal score	3.45	0.87	3.67	0.78	3.86	0.70	2.98

	3.sd	p.val_1.2	p.val_1.3	p.val_2.3	p.val_all
SRS22 - SRS Subtotal score	0.42	0.1476	0	0	0
6M. SRS22 - SRS Subtotal score	0.65	0.7491	0	0	0
1Y. SRS22 - SRS Subtotal score	0.72	0.1758	0	0	0
2Y. SRS22 - SRS Subtotal score	0.81	0.0665	0	0	0
5Y. SRS22 - SRS Subtotal score	0.82	0.1472	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	0.0000	0.0000
4:	6M	2Y	0.7228	0.0200	0.2298	0.4570
5:	6M	5Y	0.9641	0.0931	0.4985	0.8577
6:	2Y	5Y	0.7492	0.7434	0.6902	0.6514

[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	36.52	9.45	35.77	7.69	42.63	9.41	31.40	6.87	0.0000
6M. SF36 - PCS	40.64	9.10	40.72	8.66	44.75	8.76	36.89	8.03	0.0020
1Y. SF36 - PCS	42.06	9.91	42.38	8.53	47.26	8.58	36.91	9.19	0.0001
2Y. SF36 - PCS	42.15	10.34	42.69	9.04	47.04	9.32	37.13	9.63	0.0014
5Y. SF36 - PCS	41.78	11.14	42.23	9.95	47.48	9.97	36.84	10.41	0.0028

	p.val_1.3	p.val_2.3	p.val_all
SF36 - PCS	0.0000	0	0
6M. SF36 - PCS	0.0020	0	0
1Y. SF36 - PCS	0.0000	0	0
2Y. SF36 - PCS	0.0001	0	0
5Y. SF36 - PCS	0.0018	0	0

	t0	t1	1	2	3	All
1:	Preop	2Y	0.0000	0.0002	0.0000	0.0000
2:	Preop	5Y	0.0001	0.0005	0.0000	0.0000
3:	Preop	6M	0.0003	0.0669	0.0000	0.0000
4:	6M	2Y	0.1807	0.0464	0.8253	0.0456
5:	6M	5Y	0.3711	0.0428	0.9695	0.1900
6:	2Y	5Y	0.7890	0.7436	0.8279	0.6839

[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       43.01  11.82  49.80 10.51  45.00 10.55  37.41 11.07    0.0017
6M. SF36 - MCS   47.18  11.85  52.08 10.70  48.93 10.16  42.91 12.47    0.0438
1Y. SF36 - MCS   47.59  11.58  52.72  9.18  49.71  9.62  42.75 12.67    0.0299
2Y. SF36 - MCS   46.99  12.10  51.70 10.26  50.22  9.84  41.30 12.80    0.3213
5Y. SF36 - MCS   47.74  11.29  52.70  8.58  50.92  9.77  42.44 11.61    0.2557
              p.val_1.3 p.val_2.3 p.val_all
SF36 - MCS            0         0         0
6M. SF36 - MCS        0         0         0
1Y. SF36 - MCS        0         0         0
2Y. SF36 - MCS        0         0         0
5Y. SF36 - MCS        0         0         0


      t0 t1      1      2      3     All
1: Preop 2Y 0.2624 0.0001 0.0077 0.0000
2: Preop 5Y 0.0809 0.0000 0.0007 0.0000
3: Preop 6M 0.1873 0.0030 0.0001 0.0000
4:    6M 2Y 0.8276 0.3080 0.2984 0.8357
5:    6M 5Y 0.7122 0.1561 0.7655 0.5663
6:    2Y 5Y 0.5471 0.6093 0.4725 0.4431
```

Surgery

```
                                        All.mean  All.sd  1.mean    1.sd
Total Operative Blood Loss st1+st2+st3   1440.59 1252.63 1384.92 1507.35
Total surgical time st1+st2+st3           308.41  164.90  290.14  152.37
Number of Posterior Instrumented Levels     9.11    4.56    7.74    4.80
Number of Interbody Fusions                 0.80    1.17    1.09    1.20
                                         2.mean    2.sd  3.mean    3.sd
Total Operative Blood Loss st1+st2+st3   1144.61 1009.95 1710.52 1219.18
Total surgical time st1+st2+st3           324.18  181.08  303.12  154.45
Number of Posterior Instrumented Levels     9.50    4.48    9.44    4.40
Number of Interbody Fusions                 0.41    1.15    1.02    1.06
                                        p.val_1.2 p.val_1.3 p.val_2.3 p.val_all
Total Operative Blood Loss st1+st2+st3     0.2196    0.1038    0.0001    0.0016
Total surgical time st1+st2+st3            0.1375    0.5424    0.2891    0.2971
Number of Posterior Instrumented Levels    0.0104    0.0127    0.9140    0.0148
Number of Interbody Fusions                0.0001    0.6790    0.0000    0.0000
```

```
$'Pelvic fixation'
$'Pelvic fixation'$All
$'Pelvic fixation'$All$table
variable
 NA  No Yes
 24 214 132


$'Pelvic fixation'$All$proportion
variable
        NA         No        Yes
0.06486486 0.57837838 0.35675676
```

```
$`Pelvic fixation`$`1`
$`Pelvic fixation`$`1`$table
variable
 NA  No Yes
  8  33  40


$`Pelvic fixation`$`1`$proportion
variable
        NA         No        Yes
0.09876543 0.40740741 0.49382716



$`Pelvic fixation`$`2`
$`Pelvic fixation`$`2`$table
variable
 NA  No Yes
 11 120  11

$`Pelvic fixation`$`2`$proportion
variable
        NA         No        Yes
0.07746479 0.84507042 0.07746479



$`Pelvic fixation`$`3`
$`Pelvic fixation`$`3`$table
variable
 NA  No Yes
  5  61  81

$`Pelvic fixation`$`3`$proportion
variable
        NA         No        Yes
0.03401361 0.41496599 0.55102041




$`Surgical Approach`
$`Surgical Approach`$All
$`Surgical Approach`$All$table
variable
                  Anterior           Anterior-Posterior
                         1                            4
                 Posterior           Posterior-Anterior
                       350                           11
        Posterior-Posterior Posterior-Posterior-Anterior
                         3                            1

$`Surgical Approach`$All$proportion
variable
                  Anterior           Anterior-Posterior
                0.002702703                  0.010810811
                 Posterior           Posterior-Anterior
                0.945945946                  0.029729730
```

```
          Posterior-Posterior Posterior-Posterior-Anterior
                   0.008108108                    0.002702703


$'Surgical Approach'$'1'
$'Surgical Approach'$'1'$table
variable
 Anterior-Posterior            Posterior  Posterior-Anterior Posterior-Posterior
                   1                   76                   3                   1

$'Surgical Approach'$'1'$proportion
variable
 Anterior-Posterior            Posterior  Posterior-Anterior Posterior-Posterior
          0.01234568           0.93827160          0.03703704          0.01234568


$'Surgical Approach'$'2'
$'Surgical Approach'$'2'$table
variable
                   Anterior          Anterior-Posterior
                          1                           3
                  Posterior         Posterior-Posterior
                        136                           1
Posterior-Posterior-Anterior
                          1

$'Surgical Approach'$'2'$proportion
variable
                   Anterior          Anterior-Posterior
                0.007042254                 0.021126761
                  Posterior         Posterior-Posterior
                0.957746479                 0.007042254
Posterior-Posterior-Anterior
                0.007042254


$'Surgical Approach'$'3'
$'Surgical Approach'$'3'$table
variable
         Posterior  Posterior-Anterior Posterior-Posterior
               138                   8                   1

$'Surgical Approach'$'3'$proportion
variable
         Posterior  Posterior-Anterior Posterior-Posterior
       0.938775510          0.054421769          0.006802721



$Decompression
$Decompression$All
$Decompression$All$table
variable
 No Yes
```

```
274  96


$Decompression$All$proportion
variable
       No       Yes
0.7405405 0.2594595



$Decompression$`1`
$Decompression$`1`$table
variable
 No Yes
 48  33

$Decompression$`1`$proportion
variable
        No       Yes
0.5925926 0.4074074



$Decompression$`2`
$Decompression$`2`$table
variable
 No Yes
124  18

$Decompression$`2`$proportion
variable
        No       Yes
0.8732394 0.1267606



$Decompression$`3`
$Decompression$`3`$table
variable
 No Yes
102   45

$Decompression$`3`$proportion
variable
        No       Yes
0.6938776 0.3061224




$`Interbody Fusion`
$`Interbody Fusion`$All
$`Interbody Fusion`$All$table
variable
 No Yes
214 156

$`Interbody Fusion`$All$proportion
variable
```

```
          No       Yes
0.5783784 0.4216216


$'Interbody Fusion'$'1'
$'Interbody Fusion'$'1'$table
variable
 No Yes
 35  46

$'Interbody Fusion'$'1'$proportion
variable
        No       Yes
0.4320988 0.5679012


$'Interbody Fusion'$'2'
$'Interbody Fusion'$'2'$table
variable
 No Yes
117  25

$'Interbody Fusion'$'2'$proportion
variable
        No       Yes
0.8239437 0.1760563


$'Interbody Fusion'$'3'
$'Interbody Fusion'$'3'$table
variable
 No Yes
 62  85

$'Interbody Fusion'$'3'$proportion
variable
        No       Yes
0.4217687 0.5782313


$Osteotomy
$Osteotomy$All
$Osteotomy$All$table
variable
 No Yes
200 170

$Osteotomy$All$proportion
variable
        No       Yes
0.5405405 0.4594595
```

```
$Osteotomy$`1`
$Osteotomy$`1`$table
variable
 No Yes
 35  46

$Osteotomy$`1`$proportion
variable
        No       Yes
0.4320988 0.5679012


$Osteotomy$`2`
$Osteotomy$`2`$table
variable
 No Yes
 97  45

$Osteotomy$`2`$proportion
variable
        No       Yes
0.6830986 0.3169014


$Osteotomy$`3`
$Osteotomy$`3`$table
variable
 No Yes
 68  79

$Osteotomy$`3`$proportion
variable
       No       Yes
0.462585 0.537415



$`3CO`
$`3CO`$All
$`3CO`$All$table
variable
 No Yes
317  53

$`3CO`$All$proportion
variable
        No       Yes
0.8567568 0.1432432


$`3CO`$`1`
$`3CO`$`1`$table
variable
 No Yes
```

```
 67   14
```

```
$'3CO'$'1'$proportion
variable
       No       Yes
0.8271605 0.1728395
```

```
$'3CO'$'2'
$'3CO'$'2'$table
variable
 No Yes
136   6
```

```
$'3CO'$'2'$proportion
variable
        No        Yes
0.95774648 0.04225352
```

```
$'3CO'$'3'
$'3CO'$'3'$table
variable
 No Yes
114  33
```

```
$'3CO'$'3'$proportion
variable
       No       Yes
0.7755102 0.2244898
```

Reinterventions

```
   group reiqs patients total
1:     1    50       25    81
2:     2    28       19   142
3:     3   132       59   147
4:   all   210      103   370
```

```
   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:       0.681        9e-04       0.0089    0.0029    0.2129         0
```

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     4          3
3:  Major Complication     247          111    63         27    32         22
4:  Minor Complication     268          173    73         47    62         47
   3_num 3_patients all  1   2   3 p_val_all_1 p_val_all_2 p_val_all_3
1:     1          1 370 81 142 147      1.0000      1.0000      1.0000
```

```
2:     2             2 370 81 142 147      0.6410       0.8229       1.0000
3:   152            62 370 81 142 147      0.6480       0.0012       0.0110
4:   133            79 370 81 142 147      0.0864       0.0070       0.1816
   p_val_1_2 p_val_1_3 p_val_2_3
1:      NaN    1.0000    1.0000
2:   0.4760    0.7547    0.9689
3:   0.0034    0.2427    0.0000
4:   0.0005    0.6288    0.0006
```

Categories

```
          Category of the complication all_num all_patients 1_num 1_patients
1:    Central neurologic complications       1            1     1          1
2:                          Iatrogenic      72           64    21         19
3:            Infectious complications      33           28     5          4
4:            Mechanical complications     223          134    42         31
5:                 Other complications     124           80    43         22
6:                                Pain      19           18     7          7
7: Peripheral neurologic complications      50           42    17         14
   2_num 2_patients 3_num 3_patients all  1   2   3 p_val_all_1 p_val_all_2
1:     0          0     0          0 370 81 142 147      0.7949      1.0000
2:    20         19    31         26 370 81 142 147      0.2554      0.3458
3:     6          5    22         19 370 81 142 147      0.5512      0.1420
4:    30         23   151         80 370 81 142 147      0.8255      0.0000
5:    30         25    51         33 370 81 142 147      0.3510      0.3760
6:     3          3     9          8 370 81 142 147      0.2812      0.2473
7:     9          8    24         20 370 81 142 147      0.2004      0.0743
   p_val_all_3 p_val_1_2 p_val_1_3 p_val_2_3
1:      1.0000    0.7756    0.7618       NaN
2:      1.0000    0.0819    0.3823    0.3969
3:      0.0815    0.8702    0.0917    0.0073
4:      0.0002    0.0004    0.0280    0.0000
5:      0.9304    0.1306    0.5260    0.3784
6:      0.9618    0.0537    0.5133    0.2415
7:      0.5744    0.0101    0.5809    0.0365
```