5y complications analysis

```
xls_path <- '../../data/ESSG extraction June 2022_2nd report 5Y - ONLY DPS.xlsx'
```

Filters

```
# discarded_patients <- readLines('five_years/discarded_patients')

data_set %<>%
    .[, followup_2y :=
        !is.na(`2 YEAR VISIT - Date of visit`) |
        !is.na(`3 YEAR VISIT - Date of visit`)] %>%
    .[, followup_5y :=
        !is.na(`5 YEAR VISIT - Date of visit`) |
        !is.na(`6 YEAR VISIT - Date of visit`)]

data_set %<>%
    .[followup_2y==TRUE] %>%
    .[followup_2y==TRUE] %>% as.Date() < as.Date('2016-6-1')]</pre>
```

Only Major Complications

All complications

	Estimate	Std.	Error	t value	Pr(> t)
(Intercept)	0.006		0.162	0.038	0.970
Age	0.005		0.002	2.584	0.010
GenderMale	-0.089		0.064	-1.381	0.168
Prior_Spine_SurgeryYes	0.121		0.060	2.037	0.042
ASA_classification	0.065		0.051	1.274	0.203
BMI_First_Visit	0.000		0.006	0.038	0.969
SiteBOR Op	-0.052		0.078	-0.658	0.511
SiteIST Op	0.064		0.218	0.293	0.770
SiteMAD Op	-0.224		0.086	-2.620	0.009
SiteZUR Op	-0.151		0.071	-2.118	0.035
'5y_vs_2y_effect'	-0.001		0.252	-0.003	0.997
Age: '5y_vs_2y_effect'	-0.001		0.003	-0.400	0.689
<pre>GenderMale: '5y_vs_2y_effect'</pre>	0.114		0.102	1.112	0.267
<pre>Prior_Spine_SurgeryYes:'5y_vs_2y_effect'</pre>	-0.196		0.090	-2.170	0.031
ASA_classification:'5y_vs_2y_effect'	-0.036		0.081	-0.438	0.662
BMI_First_Visit:'5y_vs_2y_effect'	-0.004		0.010	-0.390	0.697
SiteBOR Op: '5y_vs_2y_effect'	0.090		0.119	0.754	0.451
SiteIST Op: '5y_vs_2y_effect'	0.332		0.374	0.887	0.375
SiteMAD Op: '5y_vs_2y_effect'	0.240		0.132	1.815	0.070
SiteZUR Op: '5y_vs_2y_effect'	0.149		0.110	1.357	0.175

```
Estimate Std. Error t value
(Intercept)
                                                   0.112
                                                              0.173
                                                                      0.643
                                                   0.003
                                                               0.002 1.719
GenderMale
                                                  -0.070
                                                               0.056 -1.261
Prior_Spine_SurgeryYes
                                                   0.027
                                                               0.049 0.547
ASA classification
                                                   0.043
                                                               0.042 1.044
BMI First Visit
                                                  -0.005
                                                               0.005 - 1.001
SiteBOR Op
                                                   -0.054
                                                               0.064 -0.839
                                                                     1.270
SiteIST Op
                                                   0.252
                                                               0.199
                                                               0.070 -2.084
SiteMAD Op
                                                  -0.146
SiteZUR Op
                                                  -0.099
                                                               0.061 -1.609
                                                               0.002 2.693
Global_Tilt
                                                   0.005
Static_Major_curve_Cobb_angle
                                                               0.001
                                                   0.001
                                                                      0.636
'5y_vs_2y_effect'
                                                               0.123 0.574
                                                   0.071
                                                               0.003 -2.185
Global_Tilt:'5y_vs_2y_effect'
                                                   -0.006
Static_Major_curve_Cobb_angle: '5y_vs_2y_effect'
                                                   -0.002
                                                               0.002 -1.000
                                                Pr(>|t|)
(Intercept)
                                                   0.521
                                                   0.086
Age
GenderMale
                                                   0.208
Prior_Spine_SurgeryYes
                                                   0.584
ASA_classification
                                                   0.297
BMI_First_Visit
                                                   0.317
SiteBOR Op
                                                   0.402
SiteIST Op
                                                   0.205
SiteMAD Op
                                                   0.038
SiteZUR Op
                                                   0.108
Global_Tilt
                                                   0.007
Static_Major_curve_Cobb_angle
                                                   0.525
'5y_vs_2y_effect'
                                                   0.566
Global_Tilt:'5y_vs_2y_effect'
                                                   0.029
Static_Major_curve_Cobb_angle: '5y_vs_2y_effect'
                                                   0.318
```

Impact of complications on followup

```
Only considering those with 2 FU
```

```
Call:
glm(formula = followup_5y ~ ., data = .)

Deviance Residuals:
    Min     1Q     Median     3Q     Max
-0.92034     0.02901     0.17878     0.26275     0.49454
```

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	-0.2520853	0.4776308	-0.528	0.598
Age	0.0012736	0.0023417	0.544	0.587
GenderMale	-0.0767906	0.0762530	-1.007	0.315
'Prior Spine Surgery'Yes	0.0048998	0.0678965	0.072	0.943
'ASA classification'	-0.0478559	0.0595508	-0.804	0.423
'BMI_First Visit'	0.0073982	0.0074921	0.987	0.325

```
0.0237477 0.0877742 0.271
                                                             0.787
SiteBOR Op
SiteIST Op
                              -0.1490563 0.3191654 -0.467
                                                             0.641
                              -0.0185115 0.0961495 -0.193
SiteMAD Op
                                                             0.848
SiteZUR Op
                              -0.0044669 0.0894944 -0.050
                                                             0.960
'Global Tilt'
                              -0.0007668 0.0022193 -0.346
                                                             0.730
'Static Major curve Cobb angle' 0.0017146 0.0016064 1.067
                                                             0.287
'2Y. ODI - Score (%)'
                               0.0042094 0.0035697 1.179
                                                             0.240
'2Y. SRS22 - SRS Subtotal score' 0.0086696 0.1119342 0.077
                                                             0.938
'2Y. SF36 - MCS'
                               0.0075066 0.0042381 1.771
                                                             0.078 .
'2Y. SF36 - PCS'
                               0.0076481 0.0062663 1.221
                                                             0.224
complication_before_2yYes
                              -0.0074039 0.0664393 -0.111
                                                             0.911
```

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1

(Dispersion parameter for gaussian family taken to be 0.1820845)

Null deviance: 40.571 on 225 degrees of freedom Residual deviance: 38.056 on 209 degrees of freedom

(34 observations deleted due to missingness)

AIC: 274.74

Number of Fisher Scoring iterations: 2

Complication Types

		_	_	- () ()
	Estimate Std			
(Intercept)	-0.267	0.076	-3.517	0.000
Age	0.001	0.001		
GenderMale	-0.010	0.030	-0.324	0.746
Prior_Spine_SurgeryYes	0.066	0.028	2.356	0.019
ASA_classification	0.047	0.024	1.980	0.048
BMI_First_Visit	0.008	0.003	2.665	0.008
SiteBOR Op	-0.030	0.037	-0.807	0.420
SiteIST Op	-0.129	0.102	-1.260	0.208
SiteMAD Op	-0.006	0.040	-0.158	0.874
SiteZUR Op	-0.069	0.033	-2.067	0.039
<pre>'5y_vs_2y_effect'</pre>	0.267	0.118	2.265	0.024
Age: '5y_vs_2y_effect'	-0.001	0.001	-0.785	0.433
<pre>GenderMale: '5y_vs_2y_effect'</pre>	0.010	0.048	0.205	0.838
<pre>Prior_Spine_SurgeryYes:'5y_vs_2y_effect'</pre>	-0.066	0.042	-1.554	0.121
ASA_classification: '5y_vs_2y_effect'	-0.047	0.038	-1.243	0.214
BMI_First_Visit:'5y_vs_2y_effect'	-0.008	0.005	-1.720	0.086
SiteBOR Op: '5y_vs_2y_effect'	0.030	0.056	0.529	0.597
SiteIST Op: '5y_vs_2y_effect'	0.129	0.175	0.733	0.464
SiteMAD Op: '5y_vs_2y_effect'	0.006	0.062	0.102	0.918
SiteZUR Op: '5y_vs_2y_effect'	0.069	0.051	1.340	0.181
	Patin	- + - O+ 1	F	1
(T.)			Error	
(Intercept)	-0.094 0.001		0.081	-1.165
Age		0.001 0.026	0.906 -0.850	
GenderMale		-0.022		
Prior_Spine_SurgeryYes	0.032		0.023	
ASA_classification	0.	020	0.019	1.023

```
0.003
BMI_First_Visit
                                                    0.005
                                                                       1.903
SiteBOR Op
                                                   -0.027
                                                               0.030 - 0.899
                                                               0.093 - 0.862
SiteIST Op
                                                   -0.080
                                                   -0.007
                                                               0.033 -0.214
SiteMAD Op
SiteZUR Op
                                                   -0.045
                                                               0.029 -1.561
Global Tilt
                                                    0.001
                                                               0.001 0.867
Static_Major_curve_Cobb_angle
                                                   -0.001
                                                               0.001 - 1.251
                                                               0.057 - 1.303
'5y_vs_2y_effect'
                                                   -0.075
Global_Tilt:'5y_vs_2y_effect'
                                                   -0.002
                                                               0.001 -1.376
                                                               0.001 1.099
Static_Major_curve_Cobb_angle: '5y_vs_2y_effect'
                                                    0.001
                                                 Pr(>|t|)
(Intercept)
                                                    0.245
                                                    0.366
Age
                                                    0.396
GenderMale
Prior_Spine_SurgeryYes
                                                    0.159
ASA_classification
                                                    0.307
                                                    0.058
BMI_First_Visit
SiteBOR Op
                                                    0.369
SiteIST Op
                                                    0.389
SiteMAD Op
                                                    0.831
SiteZUR Op
                                                    0.119
Global Tilt
                                                    0.386
Static_Major_curve_Cobb_angle
                                                    0.212
'5y vs 2y effect'
                                                    0.193
Global_Tilt:'5y_vs_2y_effect'
                                                    0.170
Static_Major_curve_Cobb_angle: '5y_vs_2y_effect'
                                                    0.272
                                          Estimate Std. Error t value Pr(>|t|)
(Intercept)
                                            -0.159
                                                        0.116 -1.372
                                                                         0.171
                                             0.003
                                                        0.001
                                                                2.239
                                                                         0.026
Age
                                                        0.046 -2.194
                                                                         0.029
GenderMale
                                           -0.101
                                                        0.043 0.463
Prior_Spine_SurgeryYes
                                            0.020
                                                                         0.644
                                                        0.036 -0.585
ASA_classification
                                            -0.021
                                                                         0.559
BMI_First_Visit
                                            0.006
                                                        0.005
                                                               1.331
                                                                         0.184
SiteBOR Op
                                            0.074
                                                        0.056 1.331
                                                                         0.184
SiteIST Op
                                            -0.062
                                                        0.155 - 0.399
                                                                         0.690
SiteMAD Op
                                                        0.061
                                                                0.443
                                                                         0.658
                                             0.027
                                                        0.051 -1.029
SiteZUR Op
                                            -0.052
                                                                         0.304
'5y vs 2y effect'
                                             0.050
                                                        0.179 0.279
                                                                         0.781
Age: '5y_vs_2y_effect'
                                            -0.001
                                                        0.002 - 0.450
                                                                         0.653
GenderMale: '5y_vs_2y_effect'
                                             0.134
                                                        0.073
                                                               1.846
                                                                         0.066
                                                        0.064 -0.549
Prior_Spine_SurgeryYes:'5y_vs_2y_effect'
                                            -0.035
                                                                         0.583
ASA_classification:'5y_vs_2y_effect'
                                            0.063
                                                        0.058 1.092
                                                                         0.275
BMI_First_Visit: '5y_vs_2y_effect'
                                            -0.006
                                                        0.007 -0.800
                                                                         0.424
SiteBOR Op: '5y_vs_2y_effect'
                                            -0.017
                                                        0.085 -0.204
                                                                         0.839
SiteIST Op: '5y_vs_2y_effect'
                                            0.479
                                                        0.267
                                                               1.794
                                                                         0.074
SiteMAD Op: '5y_vs_2y_effect'
                                             0.006
                                                        0.094
                                                                0.066
                                                                         0.947
SiteZUR Op: '5y_vs_2y_effect'
                                                        0.078 0.157
                                             0.012
                                                                         0.875
                                                 Estimate Std. Error t value
(Intercept)
                                                   -0.261
                                                               0.127 -2.058
                                                               0.001
Age
                                                    0.003
                                                                       2.543
GenderMale
                                                   -0.046
                                                               0.041 -1.128
                                                    0.015
                                                               0.036 0.407
Prior_Spine_SurgeryYes
```

```
0.030
ASA classification
                                                    0.002
                                                                        0.066
BMI_First_Visit
                                                    0.004
                                                                0.004
                                                                        1.098
SiteBOR Op
                                                    0.050
                                                               0.047
                                                                        1.062
                                                               0.145
SiteIST Op
                                                    0.120
                                                                        0.825
SiteMAD Op
                                                    0.023
                                                                0.051
                                                                        0.446
                                                   -0.053
                                                               0.045 -1.186
SiteZUR Op
                                                    0.000
                                                               0.001
                                                                        0.221
Global Tilt
Static_Major_curve_Cobb_angle
                                                               0.001
                                                    0.002
                                                                        1.634
'5y_vs_2y_effect'
                                                    0.045
                                                               0.090
                                                                        0.501
Global_Tilt:'5y_vs_2y_effect'
                                                               0.002
                                                    0.001
                                                                        0.307
Static_Major_curve_Cobb_angle:'5y_vs_2y_effect'
                                                   -0.001
                                                               0.001 -0.947
                                                 Pr(>|t|)
(Intercept)
                                                    0.040
Age
                                                    0.011
GenderMale
                                                    0.260
Prior_Spine_SurgeryYes
                                                    0.684
ASA_classification
                                                    0.947
BMI First Visit
                                                    0.273
                                                    0.289
SiteBOR Op
SiteIST Op
                                                    0.410
SiteMAD Op
                                                    0.656
SiteZUR Op
                                                    0.236
                                                    0.825
Global_Tilt
Static_Major_curve_Cobb_angle
                                                    0.103
'5y_vs_2y_effect'
                                                    0.616
Global_Tilt:'5y_vs_2y_effect'
                                                    0.759
Static_Major_curve_Cobb_angle: '5y_vs_2y_effect'
                                                    0.344
                                          Estimate Std. Error t value Pr(>|t|)
(Intercept)
                                            -0.113
                                                        0.043 -2.608
                                                                          0.009
                                                        0.000 -0.561
                                                                          0.575
                                             0.000
Age
                                                        0.017 -0.685
GenderMale
                                            -0.012
                                                                          0.494
                                                        0.016 1.730
Prior_Spine_SurgeryYes
                                             0.028
                                                                          0.084
ASA_classification
                                             0.022
                                                        0.014
                                                               1.634
                                                                          0.103
                                                        0.002 2.936
BMI_First_Visit
                                             0.005
                                                                          0.004
SiteBOR Op
                                            -0.020
                                                        0.021 - 0.955
                                                                          0.340
                                                        0.058 -1.154
SiteIST Op
                                            -0.067
                                                                          0.249
SiteMAD Op
                                            -0.046
                                                        0.023 -1.996
                                                                          0.047
SiteZUR Op
                                            -0.050
                                                        0.019 - 2.637
                                                                          0.009
'5y_vs_2y_effect'
                                             0.113
                                                        0.067 1.679
                                                                          0.094
Age: '5y_vs_2y_effect'
                                             0.000
                                                        0.001
                                                                0.362
                                                                          0.718
                                                        0.027
                                                                0.432
GenderMale:'5y_vs_2y_effect'
                                             0.012
                                                                          0.666
Prior_Spine_SurgeryYes:'5y_vs_2y_effect'
                                            -0.028
                                                        0.024 -1.141
                                                                          0.255
                                                        0.022 -1.026
                                                                          0.305
ASA_classification:'5y_vs_2y_effect'
                                            -0.022
BMI_First_Visit: '5y_vs_2y_effect'
                                            -0.005
                                                        0.003 - 1.894
                                                                          0.059
SiteBOR Op: '5y_vs_2y_effect'
                                             0.020
                                                        0.032 0.626
                                                                          0.532
SiteIST Op: '5y_vs_2y_effect'
                                             0.067
                                                        0.100
                                                                0.672
                                                                          0.502
                                                        0.035
SiteMAD Op: '5y_vs_2y_effect'
                                                                1.293
                                             0.046
                                                                          0.197
SiteZUR Op: '5y_vs_2y_effect'
                                                        0.029
                                                                1.709
                                             0.050
                                                                          0.088
                                                 Estimate Std. Error t value
(Intercept)
                                                   -0.062
                                                               0.040 - 1.545
                                                    0.001
                                                               0.000 1.596
Age
                                                   -0.009
                                                               0.013 - 0.692
GenderMale
```

```
0.011
Prior_Spine_SurgeryYes
                                                    0.018
                                                                        1.621
ASA_classification
                                                    0.003
                                                               0.010
                                                                       0.328
                                                               0.001
BMI First Visit
                                                    0.001
                                                                       1.176
                                                   -0.004
                                                               0.015 -0.298
SiteBOR Op
SiteIST Op
                                                   -0.018
                                                               0.046 -0.396
SiteMAD Op
                                                   -0.022
                                                               0.016 -1.345
SiteZUR Op
                                                   -0.022
                                                               0.014 - 1.588
                                                               0.000 - 1.746
Global_Tilt
                                                   -0.001
Static_Major_curve_Cobb_angle
                                                    0.001
                                                               0.000
                                                                       2.040
                                                               0.028 -0.039
'5y_vs_2y_effect'
                                                   -0.001
Global_Tilt:'5y_vs_2y_effect'
                                                    0.000
                                                               0.001
                                                                        0.302
Static_Major_curve_Cobb_angle: '5y_vs_2y_effect'
                                                    0.000
                                                               0.000 - 1.051
                                                 Pr(>|t|)
(Intercept)
                                                    0.123
                                                    0.111
Age
GenderMale
                                                    0.489
                                                    0.106
Prior_Spine_SurgeryYes
ASA classification
                                                    0.743
                                                    0.240
BMI_First_Visit
SiteBOR Op
                                                    0.766
SiteIST Op
                                                    0.692
SiteMAD Op
                                                    0.179
SiteZUR Op
                                                    0.113
Global Tilt
                                                    0.082
Static_Major_curve_Cobb_angle
                                                    0.042
'5y_vs_2y_effect'
                                                    0.969
Global_Tilt:'5y_vs_2y_effect'
                                                    0.762
Static_Major_curve_Cobb_angle: '5y_vs_2y_effect'
                                                    0.294
                                          Estimate Std. Error t value Pr(>|t|)
(Intercept)
                                            -0.048
                                                        0.049 -0.972
                                                                          0.332
                                            -0.001
                                                        0.001 - 2.657
                                                                          0.008
Age
                                                               1.305
GenderMale
                                             0.026
                                                        0.020
                                                                          0.193
Prior_Spine_SurgeryYes
                                             0.049
                                                        0.018
                                                                2.690
                                                                         0.007
                                                        0.015
ASA_classification
                                             0.056
                                                                3.640
                                                                         0.000
BMI_First_Visit
                                             0.002
                                                        0.002
                                                                0.838
                                                                         0.403
                                                        0.024 -0.017
                                             0.000
                                                                         0.987
SiteBOR Op
SiteIST Op
                                             0.151
                                                        0.066
                                                               2.287
                                                                         0.023
SiteMAD Op
                                            -0.047
                                                        0.026 - 1.788
                                                                         0.074
SiteZUR Op
                                            -0.038
                                                        0.022 - 1.777
                                                                         0.076
'5y_vs_2y_effect'
                                             0.048
                                                        0.076 0.626
                                                                         0.532
                                                        0.001
Age: '5y_vs_2y_effect'
                                             0.001
                                                               1.714
                                                                         0.087
GenderMale: '5y_vs_2y_effect'
                                            -0.026
                                                        0.031 -0.824
                                                                         0.410
Prior_Spine_SurgeryYes:'5y_vs_2y_effect'
                                                        0.027 -1.774
                                                                         0.077
                                            -0.049
ASA_classification:'5y_vs_2y_effect'
                                            -0.056
                                                        0.025 - 2.286
                                                                          0.023
BMI_First_Visit: '5y_vs_2y_effect'
                                            -0.002
                                                        0.003 - 0.540
                                                                         0.589
SiteBOR Op: '5y_vs_2y_effect'
                                             0.000
                                                        0.036
                                                               0.011
                                                                          0.991
SiteIST Op: '5y_vs_2y_effect'
                                                        0.114 -1.331
                                            -0.151
                                                                          0.184
SiteMAD Op: '5y_vs_2y_effect'
                                                        0.040
                                             0.047
                                                               1.158
                                                                          0.247
SiteZUR Op: '5y_vs_2y_effect'
                                             0.038
                                                        0.033
                                                              1.152
                                                                          0.250
                                                 Estimate Std. Error t value
(Intercept)
                                                    0.010
                                                               0.052 0.185
                                                    0.000
                                                               0.001 - 0.958
Age
```

GenderMale	0.015	0.017	0.906
Prior_Spine_SurgeryYes	0.030	0.015	2.051
ASA_classification	0.032	0.012	2.620
BMI_First_Visit	0.000	0.002	0.117
SiteBOR Op	-0.001	0.019	-0.035
SiteIST Op	0.149	0.059	2.530
SiteMAD Op	-0.035	0.021	-1.695
SiteZUR Op	-0.030	0.018	-1.638
Global_Tilt	-0.001	0.001	-1.452
Static_Major_curve_Cobb_angle	0.000	0.000	0.104
'5y_vs_2y_effect'	-0.045	0.037	-1.229
<pre>Global_Tilt:'5y_vs_2y_effect'</pre>	0.000	0.001	0.476
Static_Major_curve_Cobb_angle:'5y_vs_2y_effect'	0.000	0.001	0.250
	Pr(> t)		
(Intercept)	0.853		
Age	0.338		
GenderMale	0.365		
Prior_Spine_SurgeryYes	0.041		
ASA_classification	0.009		
BMI_First_Visit	0.907		
SiteBOR Op	0.972		
SiteIST Op	0.012		
SiteMAD Op	0.091		
SiteZUR Op	0.102		
Global_Tilt	0.147		
Static_Major_curve_Cobb_angle	0.917		
'5y_vs_2y_effect'	0.220		
<pre>Global_Tilt:'5y_vs_2y_effect'</pre>	0.634		
Static_Major_curve_Cobb_angle:'5y_vs_2y_effect'	0.803		

Reinterventions

	Estimate	Std.	Error	t value	Pr(> t)
(Intercept)	0.243		0.519	0.468	0.640
Age	0.011		0.006	1.719	0.087
GenderMale	-0.219		0.202	-1.087	0.278
Prior_Spine_SurgeryYes	0.056		0.146	0.385	0.700
ASA_classification	-0.080		0.144	-0.552	0.581
BMI_First_Visit	0.027		0.014	1.885	0.060
SiteBOR Op	-0.120		0.191	-0.626	0.532
SiteIST Op	0.180		0.283	0.635	0.526
SiteMAD Op	0.050		0.282	0.176	0.860
SiteZUR Op	-0.131		0.192	-0.683	0.495
'5y_vs_2y_effect'	-0.416		0.560	-0.743	0.458
Age: '5y_vs_2y_effect'	-0.007		0.007	-1.055	0.292
<pre>GenderMale: '5y_vs_2y_effect'</pre>	0.132		0.218	0.603	0.547
<pre>Prior_Spine_SurgeryYes:'5y_vs_2y_effect'</pre>	-0.057		0.166	-0.342	0.733
ASA_classification:'5y_vs_2y_effect'	0.071		0.159	0.447	0.655
BMI_First_Visit:'5y_vs_2y_effect'	-0.022		0.017	-1.327	0.185
SiteBOR Op: '5y_vs_2y_effect'	0.198		0.217	0.916	0.360
SiteMAD Op: '5y_vs_2y_effect'	0.001		0.303	0.002	0.998
SiteZUR Op: '5y_vs_2y_effect'	0.194		0.213	0.911	0.363

```
Estimate Std. Error t value
(Intercept)
                                                              0.327
                                                                      4.516
                                                   1.477
                                                   0.004
                                                              0.003 1.457
Age
GenderMale
                                                  -0.096
                                                              0.088 -1.093
Prior_Spine_SurgeryYes
                                                   0.011
                                                              0.075
                                                                      0.150
ASA classification
                                                  -0.025
                                                              0.064 -0.394
BMI First Visit
                                                   0.016
                                                              0.008 1.932
                                                   0.024
                                                              0.099
                                                                      0.240
SiteBOR Op
SiteIST Op
                                                   0.238
                                                              0.334
                                                                      0.711
SiteMAD Op
                                                   0.032
                                                              0.110
                                                                      0.290
SiteZUR Op
                                                   0.005
                                                              0.095
                                                                      0.048
Global_Tilt
                                                  -0.009
                                                              0.005 -1.974
Static_Major_curve_Cobb_angle
                                                  -0.007
                                                              0.003 -2.093
                                                              0.238 - 7.932
'5y_vs_2y_effect'
                                                  -1.890
Global_Tilt:'5y_vs_2y_effect'
                                                   0.010
                                                              0.005
                                                                     1.938
Static_Major_curve_Cobb_angle: '5y_vs_2y_effect'
                                                   0.007
                                                              0.004
                                                                       1.951
                                                Pr(>|t|)
(Intercept)
                                                   0.000
Age
                                                   0.146
GenderMale
                                                   0.275
Prior_Spine_SurgeryYes
                                                   0.881
ASA_classification
                                                   0.694
BMI_First_Visit
                                                   0.054
SiteBOR Op
                                                   0.810
SiteIST Op
                                                   0.477
SiteMAD Op
                                                   0.772
SiteZUR Op
                                                   0.961
Global_Tilt
                                                   0.049
Static_Major_curve_Cobb_angle
                                                   0.037
'5y_vs_2y_effect'
                                                   0.000
Global_Tilt:'5y_vs_2y_effect'
                                                   0.054
Static_Major_curve_Cobb_angle: '5y_vs_2y_effect'
                                                   0.052
```