

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] %>%  
#   .[`st1. Date of Stage` %>% as.Date() < as.Date('2016-6-1')]
```

Total Patients for the analysis: 585

Only Major Complications

All complications

| | Estimate | Std. Error | t value | Pr(> t) |
|--|----------|------------|---------|----------|
| (Intercept) | -0.007 | 0.118 | -0.059 | 0.953 |
| Age | 0.006 | 0.001 | 4.880 | 0.000 |
| GenderMale | -0.028 | 0.052 | -0.543 | 0.587 |
| Prior_Spine_SurgeryYes | 0.043 | 0.046 | 0.938 | 0.349 |
| ASA_classification | 0.044 | 0.036 | 1.231 | 0.219 |
| BMI_First_Visit | -0.001 | 0.005 | -0.279 | 0.781 |
| SiteBOR Op | -0.101 | 0.056 | -1.809 | 0.071 |
| SiteIST Op | 0.159 | 0.211 | 0.752 | 0.452 |
| SiteMAD Op | -0.223 | 0.068 | -3.277 | 0.001 |
| SiteZUR Op | -0.119 | 0.053 | -2.255 | 0.024 |
| '5y_vs_2y_effect' | -0.002 | 0.207 | -0.008 | 0.993 |
| Age:'5y_vs_2y_effect' | -0.002 | 0.002 | -1.079 | 0.281 |
| GenderMale:'5y_vs_2y_effect' | 0.074 | 0.089 | 0.824 | 0.410 |
| Prior_Spine_SurgeryYes:'5y_vs_2y_effect' | -0.129 | 0.077 | -1.667 | 0.096 |
| ASA_classification:'5y_vs_2y_effect' | -0.009 | 0.067 | -0.133 | 0.894 |
| BMI_First_Visit:'5y_vs_2y_effect' | -0.002 | 0.008 | -0.264 | 0.792 |
| SiteBOR Op:'5y_vs_2y_effect' | 0.112 | 0.100 | 1.127 | 0.260 |

| | | | | |
|-------------------------------|-------|-------|-------|-------|
| SiteIST Op: '5y_vs_2y_effect' | 0.244 | 0.365 | 0.668 | 0.505 |
| SiteMAD Op: '5y_vs_2y_effect' | 0.217 | 0.113 | 1.922 | 0.055 |
| SiteZUR Op: '5y_vs_2y_effect' | 0.086 | 0.092 | 0.931 | 0.352 |

| | Estimate | Std. Error | t value | |
|--|----------|------------|---------|--|
| (Intercept) | 0.057 | 0.133 | 0.431 | |
| Age | 0.004 | 0.001 | 3.375 | |
| GenderMale | -0.018 | 0.047 | -0.395 | |
| Prior_Spine_SurgeryYes | -0.013 | 0.040 | -0.335 | |
| ASA_classification | 0.028 | 0.032 | 0.866 | |
| BMI_First_Visit | -0.004 | 0.004 | -0.917 | |
| SiteBOR Op | -0.085 | 0.049 | -1.750 | |
| SiteIST Op | 0.316 | 0.191 | 1.655 | |
| SiteMAD Op | -0.146 | 0.057 | -2.563 | |
| SiteZUR Op | -0.090 | 0.048 | -1.885 | |
| Global_Tilt | 0.004 | 0.001 | 2.515 | |
| Static_Major_curve_Cobb_angle | 0.001 | 0.001 | 0.501 | |
| '5y_vs_2y_effect' | 0.005 | 0.105 | 0.051 | |
| Global_Tilt: '5y_vs_2y_effect' | -0.004 | 0.002 | -1.931 | |
| Static_Major_curve_Cobb_angle: '5y_vs_2y_effect' | -0.001 | 0.002 | -0.610 | |
| | Pr(> t) | | | |
| (Intercept) | 0.667 | | | |
| Age | 0.001 | | | |
| GenderMale | 0.693 | | | |
| Prior_Spine_SurgeryYes | 0.738 | | | |
| ASA_classification | 0.387 | | | |
| BMI_First_Visit | 0.360 | | | |
| SiteBOR Op | 0.081 | | | |
| SiteIST Op | 0.099 | | | |
| SiteMAD Op | 0.011 | | | |
| SiteZUR Op | 0.060 | | | |
| Global_Tilt | 0.012 | | | |
| Static_Major_curve_Cobb_angle | 0.617 | | | |
| '5y_vs_2y_effect' | 0.960 | | | |
| Global_Tilt: '5y_vs_2y_effect' | 0.054 | | | |
| Static_Major_curve_Cobb_angle: '5y_vs_2y_effect' | 0.542 | | | |

Impact of complications on followup

Only considering those with 2 FU

Call:

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

Deviance Residuals:

| Min | 1Q | Median | 3Q | Max |
|---------|---------|--------|--------|--------|
| -0.7410 | -0.4808 | 0.2756 | 0.4595 | 0.7579 |

Coefficients:

| | Estimate | Std. Error | t value | Pr(> t) |
|-------------|------------|------------|---------|----------|
| (Intercept) | -0.0901330 | 0.4223102 | -0.213 | 0.8311 |
| Age | 0.0039862 | 0.0020162 | 1.977 | 0.0488 * |

| | | | | |
|----------------------------------|------------|-----------|--------|----------|
| GenderMale | 0.0600092 | 0.0730176 | 0.822 | 0.4117 |
| 'Prior Spine Surgery'Yes | 0.0231657 | 0.0620543 | 0.373 | 0.7091 |
| 'ASA classification' | -0.1070041 | 0.0483492 | -2.213 | 0.0275 * |
| 'BMI_First Visit' | 0.0005533 | 0.0065324 | 0.085 | 0.9325 |
| SiteBOR Op | -0.0919261 | 0.0745252 | -1.233 | 0.2182 |
| SiteIST Op | 0.0557332 | 0.3635355 | 0.153 | 0.8782 |
| SiteMAD Op | 0.1014502 | 0.0889755 | 1.140 | 0.2550 |
| SiteZUR Op | 0.0141384 | 0.0752264 | 0.188 | 0.8510 |
| 'Global Tilt' | 0.0004024 | 0.0019712 | 0.204 | 0.8384 |
| 'Static Major curve Cobb angle' | 0.0015720 | 0.0014070 | 1.117 | 0.2646 |
| '2Y. ODI - Score (%)' | 0.0028554 | 0.0031606 | 0.903 | 0.3669 |
| '2Y. SRS22 - SRS Subtotal score' | 0.0263567 | 0.0954132 | 0.276 | 0.7825 |
| '2Y. SF36 - MCS' | 0.0038730 | 0.0037303 | 1.038 | 0.2999 |
| '2Y. SF36 - PCS' | 0.0028088 | 0.0055013 | 0.511 | 0.6100 |
| complication_before_2yYes | 0.0962820 | 0.0620054 | 1.553 | 0.1214 |

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

(Dispersion parameter for gaussian family taken to be 0.2475167)

Null deviance: 93.637 on 374 degrees of freedom
 Residual deviance: 88.611 on 358 degrees of freedom
 (59 observations deleted due to missingness)
 AIC: 559.2

Number of Fisher Scoring iterations: 2

Complication Types

| | Estimate | Std. Error | t value | Pr(> t) |
|--|----------|------------|---------|----------|
| (Intercept) | -0.268 | 0.062 | -4.335 | 0.000 |
| Age | 0.001 | 0.001 | 1.439 | 0.151 |
| GenderMale | -0.007 | 0.027 | -0.243 | 0.808 |
| Prior_Spine_SurgeryYes | 0.022 | 0.024 | 0.903 | 0.367 |
| ASA_classification | 0.047 | 0.019 | 2.504 | 0.013 |
| BMI_First_Visit | 0.009 | 0.003 | 3.644 | 0.000 |
| SiteBOR Op | -0.030 | 0.029 | -1.017 | 0.310 |
| SiteIST Op | -0.106 | 0.110 | -0.961 | 0.337 |
| SiteMAD Op | -0.041 | 0.036 | -1.143 | 0.254 |
| SiteZUR Op | -0.067 | 0.028 | -2.425 | 0.016 |
| '5y_vs_2y_effect' | 0.253 | 0.109 | 2.330 | 0.020 |
| Age:'5y_vs_2y_effect' | -0.001 | 0.001 | -0.432 | 0.666 |
| GenderMale:'5y_vs_2y_effect' | 0.033 | 0.047 | 0.695 | 0.487 |
| Prior_Spine_SurgeryYes:'5y_vs_2y_effect' | -0.036 | 0.040 | -0.893 | 0.372 |
| ASA_classification:'5y_vs_2y_effect' | -0.052 | 0.035 | -1.466 | 0.143 |
| BMI_First_Visit:'5y_vs_2y_effect' | -0.008 | 0.004 | -1.923 | 0.055 |
| SiteBOR Op:'5y_vs_2y_effect' | 0.011 | 0.052 | 0.215 | 0.830 |
| SiteIST Op:'5y_vs_2y_effect' | 0.105 | 0.191 | 0.548 | 0.584 |
| SiteMAD Op:'5y_vs_2y_effect' | 0.031 | 0.059 | 0.527 | 0.598 |
| SiteZUR Op:'5y_vs_2y_effect' | 0.046 | 0.048 | 0.959 | 0.338 |

| | | | |
|-------------|----------|------------|---------|
| | Estimate | Std. Error | t value |
| (Intercept) | -0.119 | 0.068 | -1.742 |

| | | | |
|---|--------|-------|--------|
| Age | 0.001 | 0.001 | 1.231 |
| GenderMale | -0.002 | 0.024 | -0.094 |
| Prior_Spine_SurgeryYes | 0.004 | 0.021 | 0.215 |
| ASA_classification | 0.020 | 0.016 | 1.244 |
| BMI_First_Visit | 0.006 | 0.002 | 2.810 |
| SiteBOR Op | -0.033 | 0.025 | -1.303 |
| SiteIST Op | -0.070 | 0.098 | -0.707 |
| SiteMAD Op | -0.026 | 0.029 | -0.902 |
| SiteZUR Op | -0.052 | 0.024 | -2.130 |
| Global_Tilt | 0.001 | 0.001 | 0.932 |
| Static_Major_curve_Cobb_angle | -0.001 | 0.001 | -1.536 |
| '5y_vs_2y_effect' | -0.055 | 0.054 | -1.013 |
| Global_Tilt:'5y_vs_2y_effect' | -0.002 | 0.001 | -1.589 |
| Static_Major_curve_Cobb_angle:'5y_vs_2y_effect' | 0.001 | 0.001 | 0.869 |

Pr(>|t|)

| | |
|---|-------|
| (Intercept) | 0.082 |
| Age | 0.219 |
| GenderMale | 0.925 |
| Prior_Spine_SurgeryYes | 0.830 |
| ASA_classification | 0.214 |
| BMI_First_Visit | 0.005 |
| SiteBOR Op | 0.193 |
| SiteIST Op | 0.480 |
| SiteMAD Op | 0.367 |
| SiteZUR Op | 0.034 |
| Global_Tilt | 0.351 |
| Static_Major_curve_Cobb_angle | 0.125 |
| '5y_vs_2y_effect' | 0.311 |
| Global_Tilt:'5y_vs_2y_effect' | 0.113 |
| Static_Major_curve_Cobb_angle:'5y_vs_2y_effect' | 0.385 |

| | Estimate | Std. Error | t value | Pr(> t) |
|--|----------|------------|---------|----------|
| (Intercept) | -0.090 | 0.083 | -1.077 | 0.282 |
| Age | 0.002 | 0.001 | 2.587 | 0.010 |
| GenderMale | -0.032 | 0.037 | -0.873 | 0.383 |
| Prior_Spine_SurgeryYes | 0.029 | 0.033 | 0.894 | 0.372 |
| ASA_classification | -0.001 | 0.025 | -0.049 | 0.961 |
| BMI_First_Visit | 0.003 | 0.003 | 0.748 | 0.455 |
| SiteBOR Op | 0.044 | 0.039 | 1.114 | 0.266 |
| SiteIST Op | -0.086 | 0.149 | -0.576 | 0.565 |
| SiteMAD Op | -0.006 | 0.048 | -0.125 | 0.901 |
| SiteZUR Op | -0.038 | 0.037 | -1.034 | 0.302 |
| '5y_vs_2y_effect' | 0.011 | 0.147 | 0.074 | 0.941 |
| Age:'5y_vs_2y_effect' | -0.001 | 0.002 | -0.318 | 0.750 |
| GenderMale:'5y_vs_2y_effect' | 0.057 | 0.063 | 0.905 | 0.366 |
| Prior_Spine_SurgeryYes:'5y_vs_2y_effect' | -0.048 | 0.055 | -0.882 | 0.378 |
| ASA_classification:'5y_vs_2y_effect' | 0.051 | 0.047 | 1.083 | 0.279 |
| BMI_First_Visit:'5y_vs_2y_effect' | -0.003 | 0.006 | -0.564 | 0.573 |
| SiteBOR Op:'5y_vs_2y_effect' | -0.001 | 0.070 | -0.018 | 0.986 |
| SiteIST Op:'5y_vs_2y_effect' | 0.502 | 0.258 | 1.946 | 0.052 |
| SiteMAD Op:'5y_vs_2y_effect' | 0.020 | 0.080 | 0.249 | 0.804 |
| SiteZUR Op:'5y_vs_2y_effect' | -0.012 | 0.065 | -0.187 | 0.852 |

Estimate Std. Error t value

| | | | |
|---|--------|-------|--------|
| (Intercept) | -0.127 | 0.096 | -1.326 |
| Age | 0.002 | 0.001 | 2.460 |
| GenderMale | -0.018 | 0.034 | -0.533 |
| Prior_Spine_SurgeryYes | 0.018 | 0.029 | 0.623 |
| ASA_classification | 0.012 | 0.023 | 0.498 |
| BMI_First_Visit | 0.002 | 0.003 | 0.609 |
| SiteBOR Op | 0.028 | 0.035 | 0.806 |
| SiteIST Op | 0.100 | 0.138 | 0.728 |
| SiteMAD Op | -0.004 | 0.041 | -0.093 |
| SiteZUR Op | -0.050 | 0.034 | -1.458 |
| Global_Tilt | 0.000 | 0.001 | 0.295 |
| Static_Major_curve_Cobb_angle | 0.001 | 0.001 | 0.858 |
| '5y_vs_2y_effect' | -0.033 | 0.076 | -0.441 |
| Global_Tilt:'5y_vs_2y_effect' | 0.001 | 0.002 | 0.712 |
| Static_Major_curve_Cobb_angle:'5y_vs_2y_effect' | 0.000 | 0.001 | 0.020 |

Pr(>|t|)

| | |
|---|-------|
| (Intercept) | 0.185 |
| Age | 0.014 |
| GenderMale | 0.594 |
| Prior_Spine_SurgeryYes | 0.534 |
| ASA_classification | 0.619 |
| BMI_First_Visit | 0.543 |
| SiteBOR Op | 0.420 |
| SiteIST Op | 0.467 |
| SiteMAD Op | 0.926 |
| SiteZUR Op | 0.145 |
| Global_Tilt | 0.768 |
| Static_Major_curve_Cobb_angle | 0.391 |
| '5y_vs_2y_effect' | 0.660 |
| Global_Tilt:'5y_vs_2y_effect' | 0.477 |
| Static_Major_curve_Cobb_angle:'5y_vs_2y_effect' | 0.984 |

| | Estimate | Std. Error | t value | Pr(> t) |
|--|----------|------------|---------|----------|
| (Intercept) | -0.082 | 0.033 | -2.492 | 0.013 |
| Age | 0.000 | 0.000 | -0.266 | 0.790 |
| GenderMale | -0.003 | 0.015 | -0.181 | 0.856 |
| Prior_Spine_SurgeryYes | 0.021 | 0.013 | 1.586 | 0.113 |
| ASA_classification | 0.021 | 0.010 | 2.047 | 0.041 |
| BMI_First_Visit | 0.003 | 0.001 | 2.313 | 0.021 |
| SiteBOR Op | -0.005 | 0.016 | -0.316 | 0.752 |
| SiteIST Op | -0.049 | 0.059 | -0.839 | 0.402 |
| SiteMAD Op | -0.034 | 0.019 | -1.794 | 0.073 |
| SiteZUR Op | -0.035 | 0.015 | -2.402 | 0.017 |
| '5y_vs_2y_effect' | 0.082 | 0.058 | 1.419 | 0.156 |
| Age:'5y_vs_2y_effect' | 0.000 | 0.001 | 0.144 | 0.885 |
| GenderMale:'5y_vs_2y_effect' | 0.003 | 0.025 | 0.106 | 0.916 |
| Prior_Spine_SurgeryYes:'5y_vs_2y_effect' | -0.021 | 0.022 | -0.950 | 0.342 |
| ASA_classification:'5y_vs_2y_effect' | -0.021 | 0.019 | -1.094 | 0.274 |
| BMI_First_Visit:'5y_vs_2y_effect' | -0.003 | 0.002 | -1.313 | 0.190 |
| SiteBOR Op:'5y_vs_2y_effect' | 0.005 | 0.028 | 0.177 | 0.860 |
| SiteIST Op:'5y_vs_2y_effect' | 0.049 | 0.102 | 0.485 | 0.628 |
| SiteMAD Op:'5y_vs_2y_effect' | 0.034 | 0.032 | 1.081 | 0.280 |
| SiteZUR Op:'5y_vs_2y_effect' | 0.035 | 0.026 | 1.372 | 0.171 |

| | Estimate | Std. Error | t value |
|---|----------|------------|---------|
| (Intercept) | -0.074 | 0.034 | -2.167 |
| Age | 0.000 | 0.000 | 0.930 |
| GenderMale | -0.001 | 0.012 | -0.087 |
| Prior_Spine_SurgeryYes | 0.013 | 0.010 | 1.246 |
| ASA_classification | 0.009 | 0.008 | 1.091 |
| BMI_First_Visit | 0.001 | 0.001 | 0.968 |
| SiteBOR Op | 0.002 | 0.013 | 0.133 |
| SiteIST Op | -0.014 | 0.049 | -0.295 |
| SiteMAD Op | -0.017 | 0.015 | -1.190 |
| SiteZUR Op | -0.016 | 0.012 | -1.292 |
| Global_Tilt | 0.000 | 0.000 | 0.363 |
| Static_Major_curve_Cobb_angle | 0.001 | 0.000 | 2.464 |
| '5y_vs_2y_effect' | 0.023 | 0.027 | 0.854 |
| Global_Tilt:'5y_vs_2y_effect' | -0.001 | 0.001 | -1.139 |
| Static_Major_curve_Cobb_angle:'5y_vs_2y_effect' | -0.001 | 0.000 | -1.223 |

Pr(>|t|)

| | |
|---|-------|
| (Intercept) | 0.031 |
| Age | 0.353 |
| GenderMale | 0.931 |
| Prior_Spine_SurgeryYes | 0.213 |
| ASA_classification | 0.276 |
| BMI_First_Visit | 0.333 |
| SiteBOR Op | 0.894 |
| SiteIST Op | 0.768 |
| SiteMAD Op | 0.234 |
| SiteZUR Op | 0.197 |
| Global_Tilt | 0.717 |
| Static_Major_curve_Cobb_angle | 0.014 |
| '5y_vs_2y_effect' | 0.394 |
| Global_Tilt:'5y_vs_2y_effect' | 0.255 |
| Static_Major_curve_Cobb_angle:'5y_vs_2y_effect' | 0.222 |

| | Estimate | Std. Error | t value | Pr(> t) |
|--|----------|------------|---------|----------|
| (Intercept) | -0.004 | 0.041 | -0.102 | 0.919 |
| Age | 0.000 | 0.000 | -0.041 | 0.967 |
| GenderMale | 0.014 | 0.018 | 0.804 | 0.422 |
| Prior_Spine_SurgeryYes | 0.030 | 0.016 | 1.888 | 0.059 |
| ASA_classification | 0.038 | 0.012 | 3.086 | 0.002 |
| BMI_First_Visit | -0.001 | 0.002 | -0.674 | 0.500 |
| SiteBOR Op | -0.021 | 0.019 | -1.081 | 0.280 |
| SiteIST Op | 0.171 | 0.073 | 2.353 | 0.019 |
| SiteMAD Op | -0.056 | 0.023 | -2.379 | 0.018 |
| SiteZUR Op | -0.046 | 0.018 | -2.505 | 0.012 |
| '5y_vs_2y_effect' | 0.004 | 0.072 | 0.058 | 0.954 |
| Age:'5y_vs_2y_effect' | 0.000 | 0.001 | 0.022 | 0.982 |
| GenderMale:'5y_vs_2y_effect' | -0.014 | 0.031 | -0.469 | 0.639 |
| Prior_Spine_SurgeryYes:'5y_vs_2y_effect' | -0.030 | 0.027 | -1.131 | 0.258 |
| ASA_classification:'5y_vs_2y_effect' | -0.038 | 0.023 | -1.650 | 0.100 |
| BMI_First_Visit:'5y_vs_2y_effect' | 0.001 | 0.003 | 0.383 | 0.702 |
| SiteBOR Op:'5y_vs_2y_effect' | 0.021 | 0.034 | 0.605 | 0.546 |
| SiteIST Op:'5y_vs_2y_effect' | -0.171 | 0.126 | -1.360 | 0.174 |
| SiteMAD Op:'5y_vs_2y_effect' | 0.056 | 0.039 | 1.432 | 0.153 |
| SiteZUR Op:'5y_vs_2y_effect' | 0.046 | 0.032 | 1.431 | 0.153 |

| | Estimate | Std. Error | t value | |
|---|----------|------------|---------|--|
| (Intercept) | 0.012 | 0.046 | 0.262 | |
| Age | 0.000 | 0.000 | -0.218 | |
| GenderMale | 0.009 | 0.016 | 0.547 | |
| Prior_Spine_SurgeryYes | 0.019 | 0.014 | 1.376 | |
| ASA_classification | 0.028 | 0.011 | 2.505 | |
| BMI_First_Visit | -0.002 | 0.001 | -1.225 | |
| SiteBOR Op | -0.015 | 0.017 | -0.910 | |
| SiteIST Op | 0.150 | 0.066 | 2.278 | |
| SiteMAD Op | -0.039 | 0.020 | -1.968 | |
| SiteZUR Op | -0.032 | 0.016 | -1.929 | |
| Global_Tilt | 0.001 | 0.001 | 1.327 | |
| Static_Major_curve_Cobb_angle | 0.000 | 0.000 | 0.470 | |
| '5y_vs_2y_effect' | -0.002 | 0.036 | -0.062 | |
| Global_Tilt:'5y_vs_2y_effect' | -0.001 | 0.001 | -1.383 | |
| Static_Major_curve_Cobb_angle:'5y_vs_2y_effect' | 0.000 | 0.001 | -0.036 | |
| | Pr(> t) | | | |
| (Intercept) | 0.793 | | | |
| Age | 0.828 | | | |
| GenderMale | 0.585 | | | |
| Prior_Spine_SurgeryYes | 0.169 | | | |
| ASA_classification | 0.013 | | | |
| BMI_First_Visit | 0.221 | | | |
| SiteBOR Op | 0.363 | | | |
| SiteIST Op | 0.023 | | | |
| SiteMAD Op | 0.050 | | | |
| SiteZUR Op | 0.054 | | | |
| Global_Tilt | 0.185 | | | |
| Static_Major_curve_Cobb_angle | 0.639 | | | |
| '5y_vs_2y_effect' | 0.951 | | | |
| Global_Tilt:'5y_vs_2y_effect' | 0.167 | | | |
| Static_Major_curve_Cobb_angle:'5y_vs_2y_effect' | 0.972 | | | |

Reinterventions

| | Estimate | Std. Error | t value | Pr(> t) |
|--|----------|------------|---------|----------|
| (Intercept) | 0.649 | 0.333 | 1.948 | 0.052 |
| Age | 0.003 | 0.004 | 0.702 | 0.483 |
| GenderMale | -0.017 | 0.129 | -0.129 | 0.898 |
| Prior_Spine_SurgeryYes | 0.133 | 0.096 | 1.389 | 0.165 |
| ASA_classification | -0.009 | 0.096 | -0.096 | 0.924 |
| BMI_First_Visit | 0.024 | 0.010 | 2.368 | 0.018 |
| SiteBOR Op | 0.003 | 0.137 | 0.021 | 0.983 |
| SiteIST Op | -0.676 | 0.494 | -1.369 | 0.171 |
| SiteMAD Op | 0.029 | 0.217 | 0.134 | 0.894 |
| SiteZUR Op | -0.158 | 0.123 | -1.284 | 0.200 |
| '5y_vs_2y_effect' | -0.687 | 0.354 | -1.938 | 0.053 |
| Age:'5y_vs_2y_effect' | 0.001 | 0.004 | 0.140 | 0.889 |
| GenderMale:'5y_vs_2y_effect' | -0.021 | 0.139 | -0.147 | 0.883 |
| Prior_Spine_SurgeryYes:'5y_vs_2y_effect' | -0.157 | 0.107 | -1.465 | 0.143 |
| ASA_classification:'5y_vs_2y_effect' | -0.007 | 0.103 | -0.071 | 0.943 |
| BMI_First_Visit:'5y_vs_2y_effect' | -0.022 | 0.011 | -1.948 | 0.052 |
| SiteBOR Op:'5y_vs_2y_effect' | -0.030 | 0.147 | -0.201 | 0.841 |

| | | | | |
|-------------------------------|--------|-------|--------|-------|
| SiteIST Op: '5y_vs_2y_effect' | 0.785 | 0.541 | 1.450 | 0.147 |
| SiteMAD Op: '5y_vs_2y_effect' | -0.048 | 0.229 | -0.209 | 0.835 |
| SiteZUR Op: '5y_vs_2y_effect' | 0.110 | 0.135 | 0.820 | 0.413 |

| | Estimate | Std. Error | t value |
|--|----------|------------|---------|
| (Intercept) | 1.313 | 0.214 | 6.125 |
| Age | 0.003 | 0.002 | 1.751 |
| GenderMale | -0.019 | 0.054 | -0.352 |
| Prior_Spine_SurgeryYes | 0.005 | 0.047 | 0.098 |
| ASA_classification | -0.007 | 0.037 | -0.176 |
| BMI_First_Visit | 0.008 | 0.005 | 1.540 |
| SiteBOR Op | -0.045 | 0.055 | -0.820 |
| SiteIST Op | -0.047 | 0.230 | -0.205 |
| SiteMAD Op | -0.038 | 0.073 | -0.524 |
| SiteZUR Op | -0.093 | 0.055 | -1.675 |
| Global_Tilt | -0.001 | 0.003 | -0.232 |
| Static_Major_curve_Cobb_angle | -0.003 | 0.002 | -1.499 |
| '5y_vs_2y_effect' | -1.460 | 0.170 | -8.574 |
| Global_Tilt: '5y_vs_2y_effect' | 0.000 | 0.004 | 0.092 |
| Static_Major_curve_Cobb_angle: '5y_vs_2y_effect' | 0.004 | 0.002 | 1.417 |

Pr(>|t|)

| | |
|--|-------|
| (Intercept) | 0.000 |
| Age | 0.081 |
| GenderMale | 0.725 |
| Prior_Spine_SurgeryYes | 0.922 |
| ASA_classification | 0.861 |
| BMI_First_Visit | 0.124 |
| SiteBOR Op | 0.413 |
| SiteIST Op | 0.838 |
| SiteMAD Op | 0.601 |
| SiteZUR Op | 0.094 |
| Global_Tilt | 0.817 |
| Static_Major_curve_Cobb_angle | 0.134 |
| '5y_vs_2y_effect' | 0.000 |
| Global_Tilt: '5y_vs_2y_effect' | 0.927 |
| Static_Major_curve_Cobb_angle: '5y_vs_2y_effect' | 0.157 |