5y quality life analysis

```r
xls_path <- '../../data/ESSG extraction June 2022_1st report 5Y - ONLY DPS.xlsx'
```

Filters

```r
# 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')]
```

```
## PhantomJS not found. You can install it with webshot::install_phantomjs(). If it is installed, please
```

```
demographic:
- Age
- Gender
- Prior Spine Surgery
- ASA classification
- BMI_First Visit
- Site
radiologic:
- Global Tilt
- Static Major curve Cobb angle
qualitylife:
- 2Y. ODI - Score (%)
- 2Y. SRS22 - SRS Subtotal score
- 2Y. SF36 - MCS
- 2Y. SF36 - PCS
```
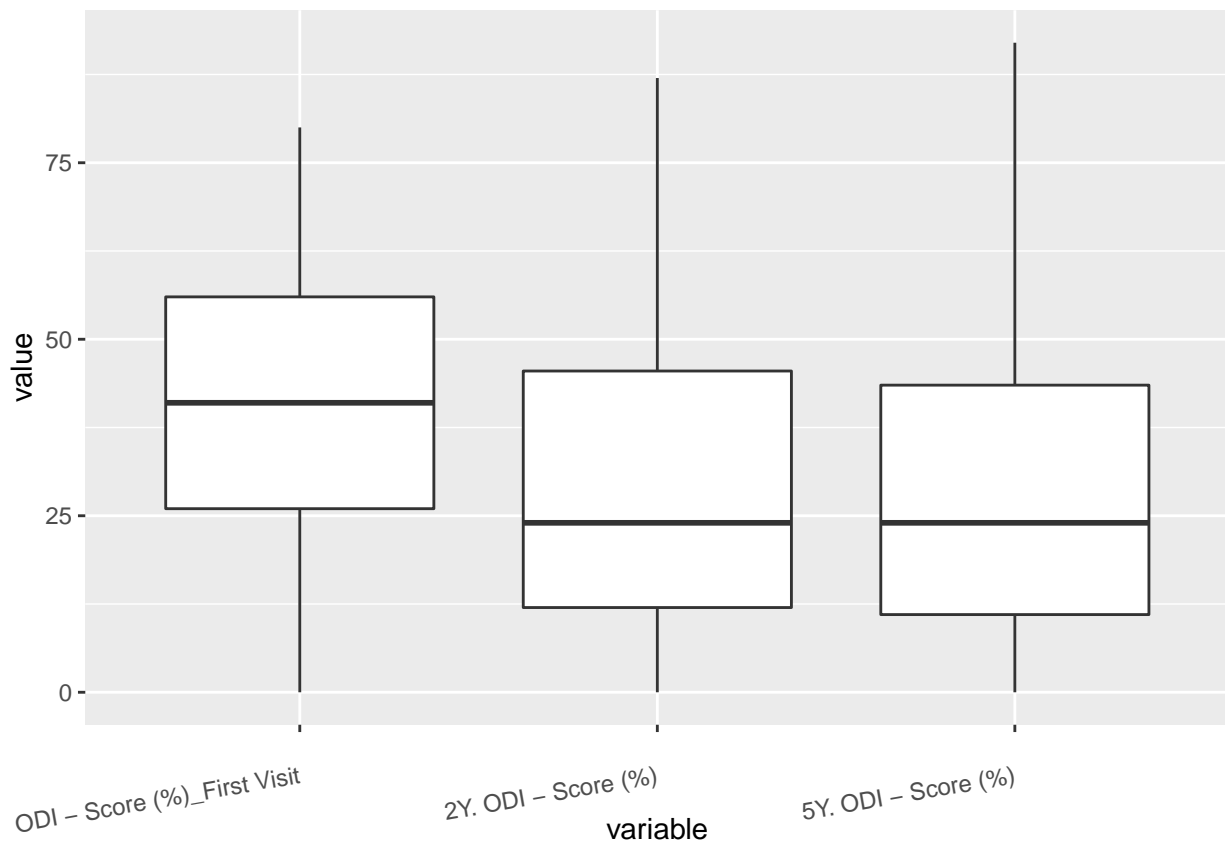
Scores

Basic stats

```
    type ODI - Score (%)_First Visit 2Y. ODI - Score (%) 5Y. ODI - Score (%)
1: Mean                    40.46341            29.38824            28.26738
2:   Sd                    19.57082            20.94261            20.55711
```

t-test mean comparison p-values

```
        type      V2
1: base vs 5 0.00000
2:    2 vs 5 0.57453
3: base vs 2 0.00000
```

5 Years Gain Gain (odi neg / others pos) Factors

```
                       Estimate Std. Error t value Pr(>|t|)
(Intercept)             -8.440      8.609  -0.980    0.328
Age                     -0.181      0.090  -2.004    0.047
GenderMale              -1.869      3.420  -0.546    0.585
'Prior Spine Surgery'Yes -0.114     2.919  -0.039    0.969
'ASA classification'    -0.435      2.681  -0.162    0.871
'BMI_First Visit'        0.292      0.346   0.843    0.400
```

```
SiteBOR Op                         6.134     3.788    1.620     0.107
SiteIST Op                       -13.761    12.450   -1.105     0.271
SiteMAD Op                         1.875     4.235    0.443     0.659
SiteZUR Op                        -0.074     3.680   -0.020     0.984
```

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	-4.676	10.783	-0.434	0.665
Age	-0.242	0.109	-2.225	0.028
GenderMale	-3.801	3.628	-1.048	0.296
'Prior Spine Surgery'Yes	0.053	3.157	0.017	0.987
'ASA classification'	-0.998	2.766	-0.361	0.719
'BMI_First Visit'	0.184	0.360	0.512	0.609
SiteBOR Op	6.475	4.040	1.603	0.111
SiteIST Op	-14.029	12.774	-1.098	0.274
SiteMAD Op	3.012	4.495	0.670	0.504
SiteZUR Op	2.331	4.028	0.579	0.564
'Global Tilt'	0.097	0.102	0.947	0.345
'Static Major curve Cobb angle'	0.000	0.074	0.004	0.997

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	-0.387	17.513	-0.022	0.982
Age	-0.058	0.105	-0.551	0.582
GenderMale	-3.707	3.325	-1.115	0.267
'Prior Spine Surgery'Yes	0.899	2.836	0.317	0.752
'ASA classification'	3.302	2.661	1.241	0.217
'BMI_First Visit'	0.474	0.334	1.418	0.158
SiteBOR Op	5.774	3.721	1.552	0.123
SiteIST Op	22.353	16.278	1.373	0.172
SiteMAD Op	3.619	4.170	0.868	0.387
SiteZUR Op	-2.690	3.900	-0.690	0.491
'Global Tilt'	0.115	0.092	1.240	0.217
'Static Major curve Cobb angle'	-0.042	0.067	-0.631	0.529
'ODI – Score (%)_First Visit'	-0.514	0.137	-3.744	0.000
'SRS22 – SRS Subtotal score_First Visit'	-0.201	4.362	-0.046	0.963
'SF36 – MCS_First Visit'	-0.167	0.161	-1.037	0.302
'SF36 – PCS_First Visit'	0.020	0.225	0.089	0.930

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	-8.350	18.689	-0.447	0.656
Age	-0.128	0.117	-1.095	0.276
GenderMale	-5.577	3.796	-1.469	0.145
'Prior Spine Surgery'Yes	-2.265	3.348	-0.677	0.500
'ASA classification'	2.073	2.811	0.737	0.462
'BMI_First Visit'	0.912	0.364	2.503	0.014
SiteBOR Op	8.969	3.937	2.278	0.025
SiteIST Op	25.468	16.117	1.580	0.117
SiteMAD Op	6.872	4.775	1.439	0.153
SiteZUR Op	-2.218	4.423	-0.502	0.617
'Global Tilt'	0.221	0.147	1.500	0.137
'Static Major curve Cobb angle'	-0.109	0.096	-1.127	0.262
'ODI – Score (%)_First Visit'	-0.447	0.147	-3.036	0.003
'SRS22 – SRS Subtotal score_First Visit'	-2.664	4.893	-0.544	0.587
'SF36 – MCS_First Visit'	0.022	0.178	0.124	0.902

	Estimate	Std. Error	t value	Pr(>|t|)
'SF36 – PCS_First Visit'	0.056	0.243	0.229	0.819
'Global Tilt_6w_inc'	0.298	0.166	1.793	0.076
'Static Major curve Cobb angle_6w_inc'	0.001	0.132	0.008	0.993

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	-7.741	18.379	-0.421	0.674
Age	-0.171	0.117	-1.460	0.147
GenderMale	-5.532	3.733	-1.482	0.141
'Prior Spine Surgery'Yes	-2.461	3.293	-0.747	0.456
'ASA classification'	1.709	2.770	0.617	0.538
'BMI_First Visit'	0.888	0.359	2.478	0.015
SiteBOR Op	8.397	3.880	2.164	0.033
SiteIST Op	21.993	15.928	1.381	0.170
SiteMAD Op	6.860	4.695	1.461	0.147
SiteZUR Op	-1.412	4.365	-0.324	0.747
'Global Tilt'	0.216	0.145	1.489	0.139
'Static Major curve Cobb angle'	-0.123	0.095	-1.295	0.198
'ODI – Score (%)_First Visit'	-0.448	0.145	-3.095	0.002
'SRS22 – SRS Subtotal score_First Visit'	-1.462	4.843	-0.302	0.763
'SF36 – MCS_First Visit'	-0.008	0.176	-0.045	0.964
'SF36 – PCS_First Visit'	0.038	0.239	0.160	0.873
'Global Tilt_6w_inc'	0.293	0.164	1.794	0.076
'Static Major curve Cobb angle_6w_inc'	0.008	0.130	0.061	0.951
had_major_complicationsYes	6.283	2.880	2.182	0.031

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	-5.399	18.605	-0.290	0.772
Age	-0.162	0.118	-1.376	0.172
GenderMale	-5.133	3.772	-1.361	0.176
'Prior Spine Surgery'Yes	-2.606	3.324	-0.784	0.435
'ASA classification'	2.108	2.787	0.756	0.451
'BMI_First Visit'	0.845	0.363	2.325	0.022
SiteBOR Op	8.410	3.916	2.148	0.034
SiteIST Op	27.605	16.025	1.723	0.088
SiteMAD Op	6.448	4.740	1.360	0.176
SiteZUR Op	-2.296	4.385	-0.524	0.602
'Global Tilt'	0.206	0.146	1.410	0.161
'Static Major curve Cobb angle'	-0.121	0.096	-1.259	0.211
'ODI – Score (%)_First Visit'	-0.454	0.146	-3.109	0.002
'SRS22 – SRS Subtotal score_First Visit'	-1.987	4.867	-0.408	0.684
'SF36 – MCS_First Visit'	0.008	0.177	0.043	0.966
'SF36 – PCS_First Visit'	0.031	0.241	0.128	0.898
'Global Tilt_6w_inc'	0.290	0.165	1.759	0.081
'Static Major curve Cobb angle_6w_inc'	0.010	0.131	0.076	0.940
had_reinterventionsYes	5.131	2.989	1.716	0.089

5Y vs 2Y Effects

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	-4.745	7.014	-0.676	0.499
Age	0.271	0.077	3.505	0.001
GenderMale	-8.555	2.754	-3.107	0.002
Prior_Spine_SurgeryYes	0.924	2.566	0.360	0.719

```
ASA_classification                                    8.675     2.222   3.904   0.000
BMI_First_Visit                                       0.285     0.280   1.015   0.311
SiteBOR Op                                           -0.121     3.338  -0.036   0.971
SiteIST Op                                           17.598    10.630   1.656   0.099
SiteMAD Op                                           -0.361     3.672  -0.098   0.922
SiteZUR Op                                          -12.838     3.083  -4.164   0.000
`5y_vs_2y_effect`                                   -13.407    10.814  -1.240   0.216
Age:`5y_vs_2y_effect`                                -0.051     0.120  -0.424   0.672
GenderMale:`5y_vs_2y_effect`                          2.678     4.408   0.608   0.544
Prior_Spine_SurgeryYes:`5y_vs_2y_effect`             2.771     3.906   0.709   0.479
ASA_classification:`5y_vs_2y_effect`                -0.873     3.509  -0.249   0.804
BMI_First_Visit:`5y_vs_2y_effect`                    0.497     0.433   1.150   0.251
SiteBOR Op:`5y_vs_2y_effect`                         6.936     5.101   1.360   0.175
SiteIST Op:`5y_vs_2y_effect`                       -13.341    16.769  -0.796   0.427
SiteMAD Op:`5y_vs_2y_effect`                         4.517     5.649   0.800   0.424
SiteZUR Op:`5y_vs_2y_effect`                         3.792     4.784   0.793   0.428


                                                  Estimate Std. Error t value
(Intercept)                                          6.451     7.300   0.884
Age                                                  0.119     0.071   1.662
GenderMale                                          -6.841     2.326  -2.941
Prior_Spine_SurgeryYes                              -0.076     2.074  -0.037
ASA_classification                                   9.036     1.771   5.101
BMI_First_Visit                                      0.393     0.230   1.705
SiteBOR Op                                           -0.114     2.684  -0.042
SiteIST Op                                            7.209     8.279   0.871
SiteMAD Op                                           -0.873     2.932  -0.298
SiteZUR Op                                          -14.032     2.603  -5.390
Global_Tilt                                          0.059     0.083   0.713
Static_Major_curve_Cobb_angle                       -0.154     0.061  -2.508
`5y_vs_2y_effect`                                    -6.603     5.168  -1.278
Global_Tilt:`5y_vs_2y_effect`                        0.114     0.109   1.045
Static_Major_curve_Cobb_angle:`5y_vs_2y_effect`     0.064     0.086   0.748
                                                  Pr(>|t|)
(Intercept)                                          0.377
Age                                                  0.097
GenderMale                                           0.003
Prior_Spine_SurgeryYes                               0.971
ASA_classification                                   0.000
BMI_First_Visit                                      0.089
SiteBOR Op                                           0.966
SiteIST Op                                           0.384
SiteMAD Op                                           0.766
SiteZUR Op                                           0.000
Global_Tilt                                          0.477
Static_Major_curve_Cobb_angle                        0.013
`5y_vs_2y_effect`                                    0.202
Global_Tilt:`5y_vs_2y_effect`                        0.297
Static_Major_curve_Cobb_angle:`5y_vs_2y_effect`     0.455
```
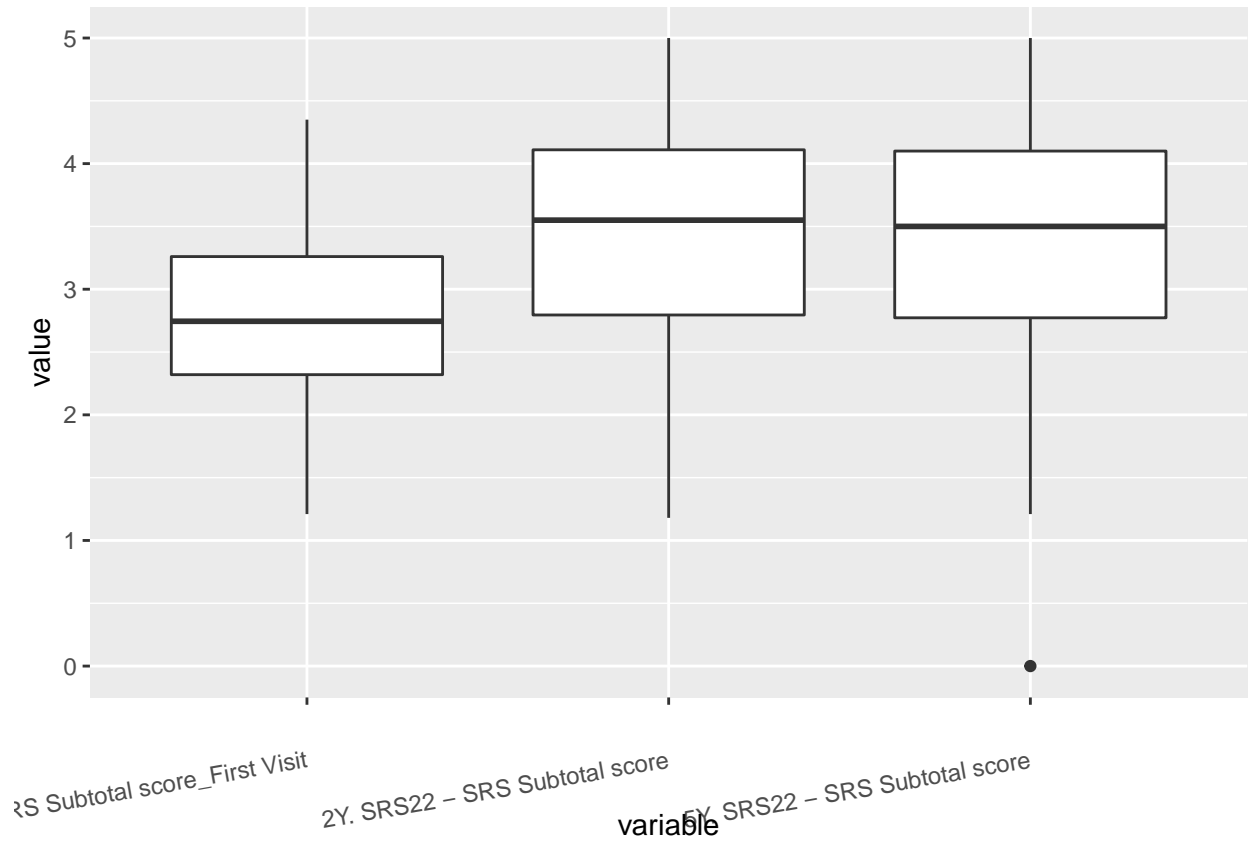
Basic stats

```
   type SRS22 - SRS Subtotal score_First Visit 2Y. SRS22 - SRS Subtotal score
1: Mean                             2.7666129                        3.4128627
2:   Sd                             0.6706537                        0.8675275
   5Y. SRS22 - SRS Subtotal score
1:                      3.3984043
2:                      0.8891013
```

t-test mean comparison p-values

```
        type       V2
1: base vs 5 0.00000
2:    2 vs 5 0.86438
3: base vs 2 0.00000
```

5 Years Gain Gain (odi neg / others pos) Factors

```
                         Estimate Std. Error t value Pr(>|t|)
(Intercept)                 1.242      0.356   3.486    0.001
Age                        -0.001      0.004  -0.213    0.832
GenderMale                 -0.026      0.146  -0.176    0.861
'Prior Spine Surgery'Yes   -0.070      0.125  -0.555    0.580
'ASA classification'       -0.084      0.116  -0.724    0.470
```

```
'BMI_First Visit'          -0.011      0.014  -0.792      0.430
SiteBOR Op                 -0.043      0.164  -0.265      0.792
SiteIST Op                 -1.750      0.759  -2.307      0.022
SiteMAD Op                 -0.361      0.183  -1.977      0.050
SiteZUR Op                 -0.186      0.155  -1.197      0.233
```

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	1.012	0.453	2.233	0.027
Age	0.003	0.005	0.579	0.564
GenderMale	0.006	0.156	0.036	0.971
'Prior Spine Surgery'Yes	-0.021	0.136	-0.154	0.878
'ASA classification'	-0.065	0.119	-0.551	0.583
'BMI_First Visit'	-0.006	0.015	-0.396	0.693
SiteBOR Op	-0.036	0.173	-0.211	0.833
SiteIST Op	-1.736	0.768	-2.261	0.025
SiteMAD Op	-0.383	0.192	-1.999	0.047
SiteZUR Op	-0.265	0.169	-1.569	0.119
'Global Tilt'	-0.005	0.004	-1.058	0.292
'Static Major curve Cobb angle'	0.000	0.003	-0.062	0.951

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	3.486	0.794	4.391	0.000
Age	0.002	0.005	0.320	0.749
GenderMale	0.136	0.151	0.904	0.368
'Prior Spine Surgery'Yes	-0.038	0.129	-0.299	0.765
'ASA classification'	-0.121	0.121	-1.003	0.318
'BMI_First Visit'	-0.023	0.015	-1.489	0.139
SiteBOR Op	-0.002	0.169	-0.012	0.990
SiteIST Op	-1.271	0.738	-1.722	0.087
SiteMAD Op	-0.285	0.189	-1.507	0.134
SiteZUR Op	0.003	0.177	0.016	0.987
'Global Tilt'	-0.007	0.004	-1.744	0.083
'Static Major curve Cobb angle'	0.002	0.003	0.678	0.499
'ODI - Score (%)_First Visit'	-0.009	0.006	-1.372	0.172
'SRS22 - SRS Subtotal score_First Visit'	-0.837	0.198	-4.235	0.000
'SF36 - MCS_First Visit'	0.012	0.007	1.614	0.109
'SF36 - PCS_First Visit'	0.004	0.010	0.351	0.726

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	3.097	0.734	4.217	0.000
Age	0.005	0.005	1.175	0.243
GenderMale	0.177	0.149	1.189	0.237
'Prior Spine Surgery'Yes	0.269	0.132	2.047	0.043
'ASA classification'	0.004	0.110	0.033	0.974
'BMI_First Visit'	-0.029	0.014	-2.005	0.047
SiteBOR Op	-0.156	0.155	-1.007	0.316
SiteIST Op	-1.598	0.633	-2.523	0.013
SiteMAD Op	-0.453	0.188	-2.413	0.017
SiteZUR Op	-0.014	0.174	-0.082	0.934
'Global Tilt'	-0.011	0.006	-1.864	0.065
'Static Major curve Cobb angle'	-0.001	0.004	-0.296	0.768
'ODI - Score (%)_First Visit'	-0.014	0.006	-2.342	0.021
'SRS22 - SRS Subtotal score_First Visit'	-0.700	0.192	-3.639	0.000

	Estimate	Std. Error	t value	Pr(>|t|)
'SF36 - MCS_First Visit'	0.006	0.007	0.859	0.392
'SF36 - PCS_First Visit'	0.004	0.010	0.412	0.681
'Global Tilt_6w_inc'	-0.013	0.007	-2.004	0.048
'Static Major curve Cobb angle_6w_inc'	-0.012	0.005	-2.319	0.022

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	3.079	0.729	4.221	0.000
Age	0.007	0.005	1.427	0.156
GenderMale	0.176	0.148	1.188	0.237
'Prior Spine Surgery'Yes	0.275	0.131	2.103	0.038
'ASA classification'	0.014	0.110	0.128	0.898
'BMI_First Visit'	-0.028	0.014	-1.970	0.051
SiteBOR Op	-0.139	0.154	-0.905	0.367
SiteIST Op	-1.498	0.632	-2.370	0.020
SiteMAD Op	-0.452	0.186	-2.427	0.017
SiteZUR Op	-0.037	0.173	-0.216	0.829
'Global Tilt'	-0.011	0.006	-1.850	0.067
'Static Major curve Cobb angle'	-0.001	0.004	-0.188	0.851
'ODI - Score (%)_First Visit'	-0.014	0.006	-2.352	0.020
'SRS22 - SRS Subtotal score_First Visit'	-0.734	0.192	-3.819	0.000
'SF36 - MCS_First Visit'	0.007	0.007	0.985	0.327
'SF36 - PCS_First Visit'	0.004	0.009	0.467	0.642
'Global Tilt_6w_inc'	-0.013	0.006	-1.996	0.048
'Static Major curve Cobb angle_6w_inc'	-0.012	0.005	-2.372	0.019
had_major_complicationsYes	-0.180	0.114	-1.576	0.118

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	3.038	0.738	4.115	0.000
Age	0.006	0.005	1.299	0.197
GenderMale	0.169	0.150	1.126	0.263
'Prior Spine Surgery'Yes	0.276	0.132	2.092	0.039
'ASA classification'	0.003	0.111	0.027	0.978
'BMI_First Visit'	-0.027	0.014	-1.899	0.060
SiteBOR Op	-0.145	0.155	-0.932	0.354
SiteIST Op	-1.640	0.636	-2.579	0.011
SiteMAD Op	-0.444	0.188	-2.362	0.020
SiteZUR Op	-0.013	0.174	-0.074	0.942
'Global Tilt'	-0.010	0.006	-1.808	0.073
'Static Major curve Cobb angle'	-0.001	0.004	-0.233	0.817
'ODI - Score (%)_First Visit'	-0.013	0.006	-2.315	0.022
'SRS22 - SRS Subtotal score_First Visit'	-0.713	0.193	-3.692	0.000
'SF36 - MCS_First Visit'	0.006	0.007	0.897	0.372
'SF36 - PCS_First Visit'	0.004	0.010	0.461	0.646
'Global Tilt_6w_inc'	-0.013	0.007	-1.977	0.051
'Static Major curve Cobb angle_6w_inc'	-0.012	0.005	-2.348	0.021
had_reinterventionsYes	-0.101	0.119	-0.853	0.395

5Y vs 2Y Effects

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	4.574	0.305	15.005	0.000
Age	-0.007	0.003	-2.084	0.038
GenderMale	0.351	0.121	2.909	0.004

	Estimate	Std. Error	t value	Pr(>|t|)
Prior_Spine_SurgeryYes	-0.130	0.112	-1.162	0.246
ASA_classification	-0.379	0.097	-3.911	0.000
BMI_First_Visit	-0.008	0.012	-0.642	0.522
SiteBOR Op	-0.056	0.146	-0.386	0.699
SiteIST Op	-0.306	0.463	-0.660	0.510
SiteMAD Op	0.011	0.160	0.068	0.946
SiteZUR Op	0.528	0.134	3.929	0.000
`5y_vs_2y_effect`	0.522	0.471	1.108	0.268
Age:`5y_vs_2y_effect`	-0.003	0.005	-0.588	0.557
GenderMale:`5y_vs_2y_effect`	-0.073	0.191	-0.383	0.702
Prior_Spine_SurgeryYes:`5y_vs_2y_effect`	-0.056	0.170	-0.332	0.740
ASA_classification:`5y_vs_2y_effect`	0.107	0.153	0.696	0.487
BMI_First_Visit:`5y_vs_2y_effect`	-0.019	0.019	-1.014	0.311
SiteBOR Op:`5y_vs_2y_effect`	0.045	0.222	0.203	0.839
SiteIST Op:`5y_vs_2y_effect`	-0.206	0.731	-0.282	0.778
SiteMAD Op:`5y_vs_2y_effect`	-0.221	0.246	-0.898	0.370
SiteZUR Op:`5y_vs_2y_effect`	-0.164	0.207	-0.792	0.429

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	4.099	0.313	13.091	0.000
Age	-0.003	0.003	-0.854	0.394
GenderMale	0.290	0.100	2.894	0.004
Prior_Spine_SurgeryYes	-0.067	0.089	-0.752	0.453
ASA_classification	-0.350	0.076	-4.604	0.000
BMI_First_Visit	-0.013	0.010	-1.269	0.205
SiteBOR Op	0.092	0.115	0.798	0.426
SiteIST Op	-0.197	0.355	-0.556	0.579
SiteMAD Op	0.029	0.126	0.229	0.819
SiteZUR Op	0.559	0.112	5.000	0.000
Global_Tilt	-0.001	0.004	-0.417	0.677
Static_Major_curve_Cobb_angle	0.005	0.003	2.063	0.040
`5y_vs_2y_effect`	0.252	0.222	1.135	0.257
Global_Tilt:`5y_vs_2y_effect`	-0.006	0.005	-1.357	0.176
Static_Major_curve_Cobb_angle:`5y_vs_2y_effect`	-0.002	0.004	-0.554	0.580
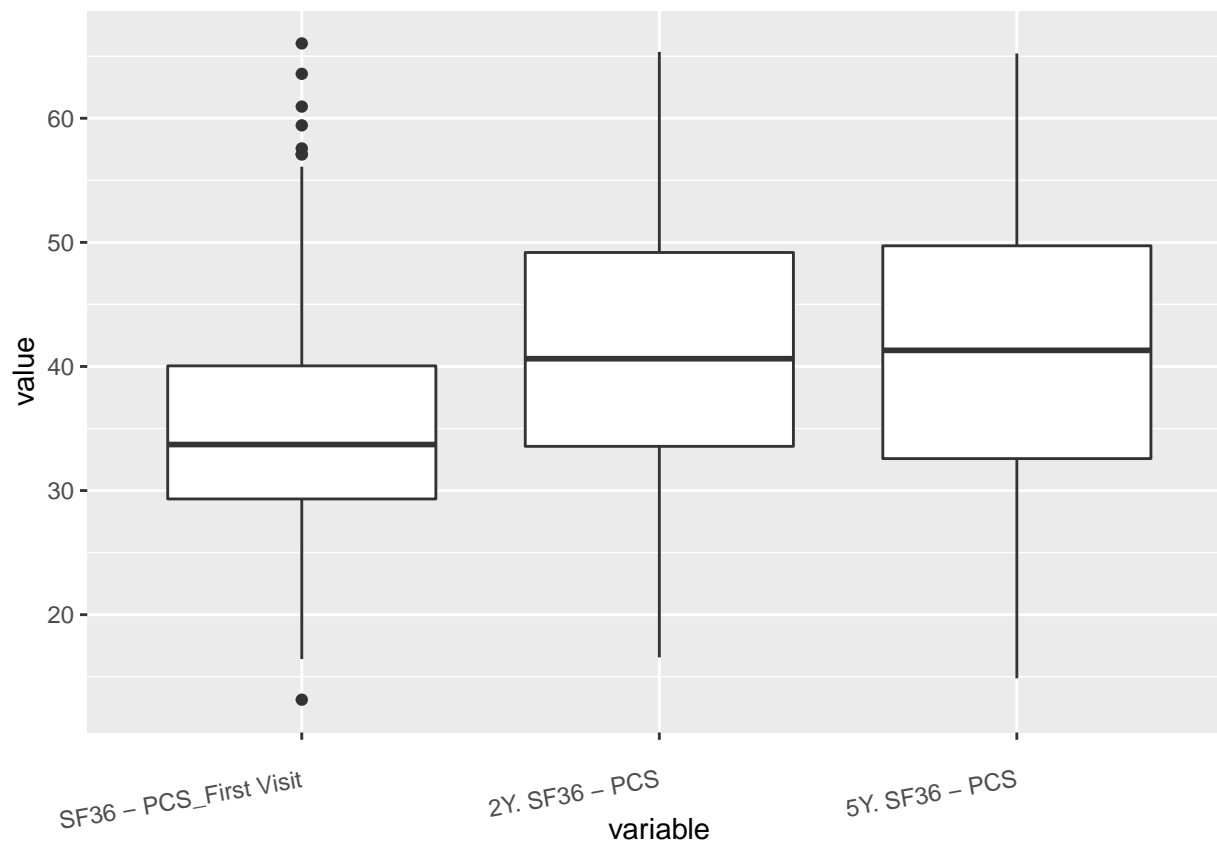
Basic stats

```
    type SF36 - PCS_First Visit 2Y. SF36 - PCS 5Y. SF36 - PCS
1: Mean            34.964939       41.38704       41.15806
2:   Sd             9.329975       10.32357       11.31039
```

t-test mean comparison p-values

```
        type      V2
1: base vs 5 0.00000
2:    2 vs 5 0.82812
3: base vs 2 0.00000
```

5 Years Gain Gain (odi neg / others pos) Factors

```
                          Estimate Std. Error t value Pr(>|t|)
(Intercept)                 13.966      4.882   2.861    0.005
Age                         -0.001      0.053  -0.028    0.978
GenderMale                  -0.265      1.978  -0.134    0.893
'Prior Spine Surgery'Yes     0.902      1.707   0.528    0.598
'ASA classification'        -0.208      1.617  -0.128    0.898
'BMI_First Visit'           -0.268      0.195  -1.376    0.171
SiteBOR Op                  -1.377      2.227  -0.618    0.537
SiteIST Op                 -26.324     10.241  -2.570    0.011
```

```
SiteMAD Op                                 -4.643     2.496  -1.860    0.065
SiteZUR Op                                 -0.048     2.108  -0.023    0.982


                                 Estimate Std. Error t value Pr(>|t|)
(Intercept)                        13.381     6.200   2.158    0.032
Age                                 0.023     0.064   0.365    0.716
GenderMale                          0.410     2.122   0.193    0.847
'Prior Spine Surgery'Yes            1.102     1.850   0.596    0.552
'ASA classification'                0.094     1.665   0.057    0.955
'BMI_First Visit'                  -0.269     0.204  -1.320    0.189
SiteBOR Op                         -2.339     2.379  -0.983    0.327
SiteIST Op                        -27.036    10.432  -2.592    0.010
SiteMAD Op                         -5.894     2.641  -2.232    0.027
SiteZUR Op                         -1.773     2.324  -0.763    0.447
'Global Tilt'                      -0.029     0.060  -0.475    0.635
'Static Major curve Cobb angle'     0.011     0.044   0.255    0.799


                                          Estimate Std. Error t value Pr(>|t|)
(Intercept)                                 50.651     9.913   5.109    0.000
Age                                         -0.037     0.060  -0.613    0.541
GenderMale                                   1.105     1.883   0.587    0.558
'Prior Spine Surgery'Yes                    -0.033     1.609  -0.020    0.984
'ASA classification'                        -1.494     1.507  -0.991    0.323
'BMI_First Visit'                           -0.308     0.189  -1.629    0.106
SiteBOR Op                                   1.329     2.115   0.628    0.531
SiteIST Op                                 -13.452     9.206  -1.461    0.146
SiteMAD Op                                  -2.738     2.384  -1.149    0.253
SiteZUR Op                                   2.046     2.217   0.923    0.358
'Global Tilt'                               -0.085     0.052  -1.626    0.106
'Static Major curve Cobb angle'              0.016     0.038   0.419    0.676
'ODI - Score (%)_First Visit'               -0.148     0.078  -1.893    0.060
'SRS22 - SRS Subtotal score_First Visit'    -1.161     2.517  -0.461    0.645
'SF36 - MCS_First Visit'                     0.095     0.093   1.027    0.306
'SF36 - PCS_First Visit'                    -0.753     0.129  -5.856    0.000


                                          Estimate Std. Error t value Pr(>|t|)
(Intercept)                                 53.789    10.205   5.271    0.000
Age                                          0.040     0.064   0.621    0.536
GenderMale                                   2.402     2.069   1.161    0.248
'Prior Spine Surgery'Yes                     3.485     1.845   1.889    0.062
'ASA classification'                        -0.505     1.532  -0.330    0.742
'BMI_First Visit'                           -0.613     0.198  -3.090    0.003
SiteBOR Op                                  -1.158     2.155  -0.537    0.592
SiteIST Op                                 -19.146     8.774  -2.182    0.031
SiteMAD Op                                  -6.269     2.625  -2.388    0.019
SiteZUR Op                                  -0.214     2.412  -0.089    0.930
'Global Tilt'                               -0.087     0.080  -1.088    0.279
'Static Major curve Cobb angle'              0.003     0.053   0.057    0.955
'ODI - Score (%)_First Visit'               -0.213     0.081  -2.641    0.009
'SRS22 - SRS Subtotal score_First Visit'     0.284     2.729   0.104    0.917
'SF36 - MCS_First Visit'                    -0.008     0.100  -0.084    0.933
'SF36 - PCS_First Visit'                    -0.735     0.135  -5.458    0.000
'Global Tilt_6w_inc'                        -0.063     0.091  -0.698    0.487
'Static Major curve Cobb angle_6w_inc'      -0.077     0.074  -1.042    0.300
```

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	53.599	10.109	5.302	0.000
Age	0.059	0.064	0.917	0.361
GenderMale	2.364	2.050	1.154	0.251
'Prior Spine Surgery'Yes	3.526	1.828	1.929	0.056
'ASA classification'	-0.359	1.519	-0.236	0.814
'BMI_First Visit'	-0.604	0.197	-3.072	0.003
SiteBOR Op	-0.946	2.138	-0.442	0.659
SiteIST Op	-17.620	8.734	-2.017	0.046
SiteMAD Op	-6.328	2.601	-2.433	0.017
SiteZUR Op	-0.587	2.399	-0.245	0.807
'Global Tilt'	-0.086	0.080	-1.082	0.282
'Static Major curve Cobb angle'	0.010	0.053	0.194	0.846
'ODI - Score (%)_First Visit'	-0.211	0.080	-2.641	0.009
'SRS22 - SRS Subtotal score_First Visit'	-0.146	2.714	-0.054	0.957
'SF36 - MCS_First Visit'	0.001	0.099	0.010	0.992
'SF36 - PCS_First Visit'	-0.731	0.133	-5.478	0.000
'Global Tilt_6w_inc'	-0.062	0.090	-0.689	0.492
'Static Major curve Cobb angle_6w_inc'	-0.078	0.073	-1.064	0.290
had_major_complicationsYes	-2.783	1.585	-1.756	0.082

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	52.628	10.221	5.149	0.000
Age	0.054	0.065	0.829	0.409
GenderMale	2.212	2.069	1.069	0.287
'Prior Spine Surgery'Yes	3.600	1.843	1.954	0.053
'ASA classification'	-0.528	1.528	-0.346	0.730
'BMI_First Visit'	-0.587	0.199	-2.951	0.004
SiteBOR Op	-0.958	2.156	-0.444	0.658
SiteIST Op	-20.020	8.779	-2.280	0.025
SiteMAD Op	-6.133	2.621	-2.340	0.021
SiteZUR Op	-0.187	2.406	-0.078	0.938
'Global Tilt'	-0.082	0.080	-1.021	0.309
'Static Major curve Cobb angle'	0.008	0.053	0.152	0.879
'ODI - Score (%)_First Visit'	-0.209	0.080	-2.602	0.011
'SRS22 - SRS Subtotal score_First Visit'	0.070	2.728	0.026	0.980
'SF36 - MCS_First Visit'	-0.005	0.099	-0.047	0.962
'SF36 - PCS_First Visit'	-0.727	0.135	-5.403	0.000
'Global Tilt_6w_inc'	-0.060	0.090	-0.668	0.506
'Static Major curve Cobb angle_6w_inc'	-0.079	0.074	-1.081	0.282
had_reinterventionsYes	-2.051	1.641	-1.250	0.214

5Y vs 2Y Effects

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	59.642	3.560	16.754	0.000
Age	-0.147	0.039	-3.735	0.000
GenderMale	1.943	1.411	1.377	0.169
Prior_Spine_SurgeryYes	-2.123	1.305	-1.626	0.105
ASA_classification	-5.225	1.134	-4.606	0.000
BMI_First_Visit	-0.048	0.142	-0.336	0.737
SiteBOR Op	0.785	1.693	0.464	0.643
SiteIST Op	5.133	6.562	0.782	0.435

```
SiteMAD Op                                              0.147    1.880   0.078   0.938
SiteZUR Op                                              4.967    1.571   3.162   0.002
'5y_vs_2y_effect'                                       8.145    5.479   1.486   0.138
Age:'5y_vs_2y_effect'                                  -0.068    0.061  -1.122   0.263
GenderMale:'5y_vs_2y_effect'                           -0.546    2.225  -0.245   0.806
Prior_Spine_SurgeryYes:'5y_vs_2y_effect'               0.192    1.981   0.097   0.923
ASA_classification:'5y_vs_2y_effect'                   1.192    1.783   0.668   0.504
BMI_First_Visit:'5y_vs_2y_effect'                     -0.275    0.218  -1.260   0.208
SiteBOR Op:'5y_vs_2y_effect'                           0.335    2.583   0.130   0.897
SiteIST Op:'5y_vs_2y_effect'                          -7.622    9.276  -0.822   0.412
SiteMAD Op:'5y_vs_2y_effect'                          -3.047    2.877  -1.059   0.290
SiteZUR Op:'5y_vs_2y_effect'                           0.916    2.421   0.378   0.705
```

	Estimate	Std. Error	t value
(Intercept)	53.641	3.676	14.593
Age	-0.078	0.036	-2.175
GenderMale	1.625	1.179	1.378
Prior_Spine_SurgeryYes	-0.744	1.043	-0.713
ASA_classification	-5.119	0.894	-5.728
BMI_First_Visit	-0.104	0.116	-0.897
SiteBOR Op	2.122	1.351	1.571
SiteIST Op	3.575	4.614	0.775
SiteMAD Op	0.159	1.484	0.107
SiteZUR Op	6.321	1.317	4.800
Global_Tilt	-0.029	0.042	-0.694
Static_Major_curve_Cobb_angle	0.065	0.031	2.102
'5y_vs_2y_effect'	2.632	2.597	1.014
Global_Tilt:'5y_vs_2y_effect'	-0.079	0.055	-1.440
Static_Major_curve_Cobb_angle:'5y_vs_2y_effect'	-0.023	0.043	-0.528

	Pr(>|t|)
(Intercept)	0.000
Age	0.030
GenderMale	0.169
Prior_Spine_SurgeryYes	0.476
ASA_classification	0.000
BMI_First_Visit	0.370
SiteBOR Op	0.117
SiteIST Op	0.439
SiteMAD Op	0.915
SiteZUR Op	0.000
Global_Tilt	0.488
Static_Major_curve_Cobb_angle	0.036
'5y_vs_2y_effect'	0.311
Global_Tilt:'5y_vs_2y_effect'	0.151
Static_Major_curve_Cobb_angle:'5y_vs_2y_effect'	0.598
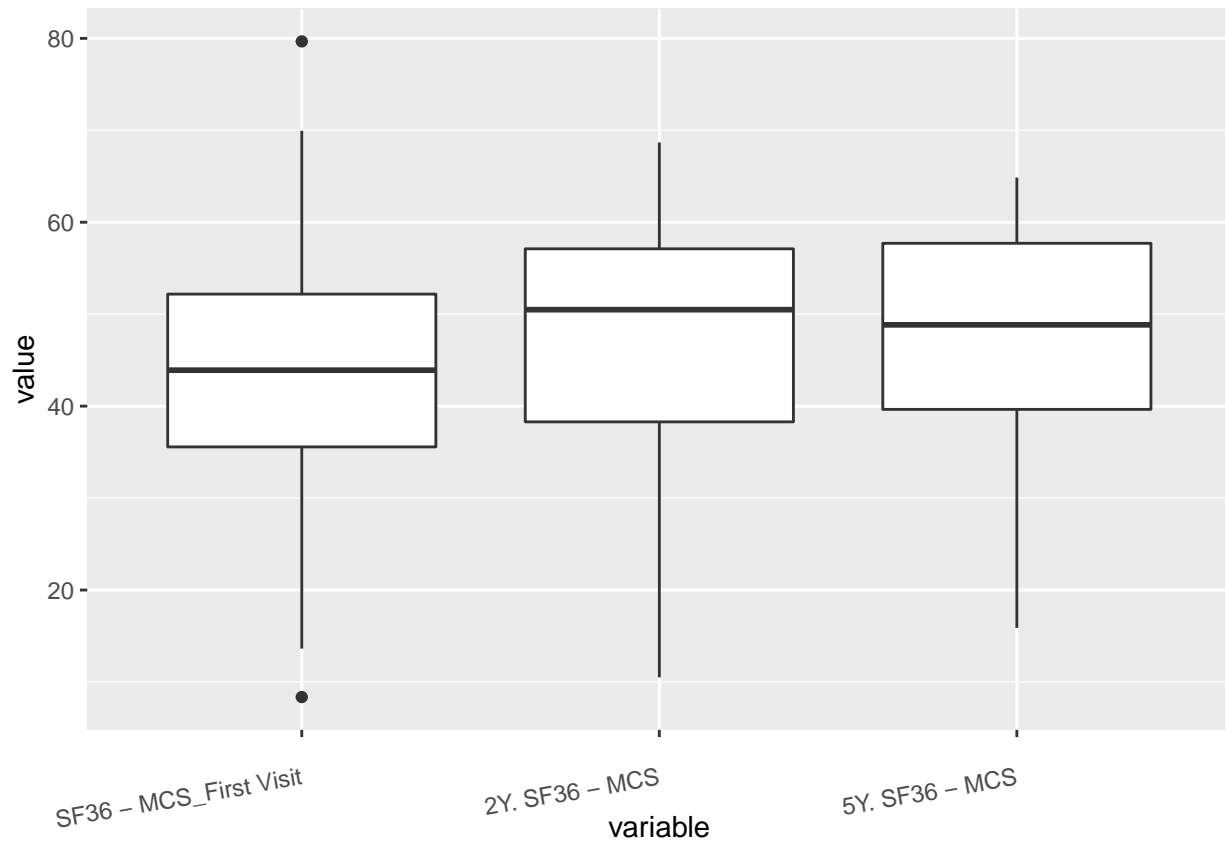
Basic stats

```
    type SF36 - MCS_First Visit 2Y. SF36 - MCS 5Y. SF36 - MCS
1: Mean               43.60664       47.12460       47.29914
2:   Sd               12.08924       12.90669       11.36616
```

t-test mean comparison p-values

```
        type      V2
1: base vs 5 0.00120
2:    2 vs 5 0.88074
3: base vs 2 0.00177
```

5 Years Gain Gain (odi neg / others pos) Factors

```
                         Estimate Std. Error t value Pr(>|t|)
(Intercept)                 6.858      5.480   1.251    0.213
Age                        -0.026      0.060  -0.437    0.663
GenderMale                 -2.657      2.218  -1.198    0.233
'Prior Spine Surgery'Yes   -1.215      1.915  -0.634    0.527
'ASA classification'        0.710      1.813   0.392    0.696
'BMI_First Visit'          -0.153      0.219  -0.700    0.485
SiteBOR Op                  2.491      2.499   0.997    0.320
SiteIST Op                -14.885     11.500  -1.294    0.197
```

```
SiteMAD Op                                   2.536     2.803   0.905     0.367
SiteZUR Op                                   0.445     2.360   0.189     0.851


                                 Estimate Std. Error t value Pr(>|t|)
(Intercept)                         8.912      6.861   1.299     0.196
Age                                -0.022      0.071  -0.313     0.754
GenderMale                         -4.043      2.345  -1.724     0.087
'Prior Spine Surgery'Yes           -0.971      2.047  -0.474     0.636
'ASA classification'                0.778      1.841   0.423     0.673
'BMI_First Visit'                  -0.117      0.226  -0.517     0.606
SiteBOR Op                          2.503      2.633   0.951     0.343
SiteIST Op                        -15.806     11.551  -1.368     0.173
SiteMAD Op                          2.405      2.924   0.823     0.412
SiteZUR Op                          0.449      2.568   0.175     0.862
'Global Tilt'                      -0.028      0.067  -0.418     0.676
'Static Major curve Cobb angle'    -0.054      0.048  -1.109     0.269


                                             Estimate Std. Error t value Pr(>|t|)
(Intercept)                                    27.312     10.805   2.528     0.013
Age                                             0.021      0.065   0.320     0.750
GenderMale                                     -1.591      2.050  -0.776     0.439
'Prior Spine Surgery'Yes                       -0.487      1.754  -0.278     0.782
'ASA classification'                            1.007      1.641   0.614     0.540
'BMI_First Visit'                              -0.249      0.206  -1.209     0.229
SiteBOR Op                                      0.277      2.303   0.120     0.904
SiteIST Op                                    -18.820     10.038  -1.875     0.063
SiteMAD Op                                     -0.026      2.597  -0.010     0.992
SiteZUR Op                                     -0.058      2.418  -0.024     0.981
'Global Tilt'                                  -0.011      0.057  -0.200     0.841
'Static Major curve Cobb angle'               -0.021      0.041  -0.513     0.609
'ODI - Score (%)_First Visit'                   0.007      0.085   0.077     0.938
'SRS22 - SRS Subtotal score_First Visit'        2.619      2.730   0.959     0.339
'SF36 - MCS_First Visit'                       -0.627      0.101  -6.220     0.000
'SF36 - PCS_First Visit'                        0.028      0.140   0.202     0.840


                                             Estimate Std. Error t value Pr(>|t|)
(Intercept)                                    31.313     11.816   2.650     0.009
Age                                             0.014      0.074   0.196     0.845
GenderMale                                     -0.659      2.392  -0.275     0.784
'Prior Spine Surgery'Yes                       -0.728      2.136  -0.341     0.734
'ASA classification'                            2.074      1.772   1.170     0.245
'BMI_First Visit'                              -0.364      0.230  -1.587     0.115
SiteBOR Op                                      0.175      2.489   0.070     0.944
SiteIST Op                                    -16.570     10.156  -1.632     0.106
SiteMAD Op                                     -1.383      3.033  -0.456     0.649
SiteZUR Op                                     -0.648      2.794  -0.232     0.817
'Global Tilt'                                  -0.083      0.093  -0.890     0.376
'Static Major curve Cobb angle'                 0.049      0.061   0.794     0.429
'ODI - Score (%)_First Visit'                  -0.013      0.093  -0.137     0.891
'SRS22 - SRS Subtotal score_First Visit'        3.049      3.135   0.973     0.333
'SF36 - MCS_First Visit'                       -0.675      0.115  -5.891     0.000
'SF36 - PCS_First Visit'                       -0.011      0.156  -0.071     0.944
'Global Tilt_6w_inc'                           -0.097      0.105  -0.927     0.356
'Static Major curve Cobb angle_6w_inc'          0.081      0.085   0.945     0.347
```

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	31.258	11.855	2.637	0.010
Age	0.021	0.075	0.282	0.779
GenderMale	-0.668	2.400	-0.278	0.781
'Prior Spine Surgery'Yes	-0.711	2.144	-0.332	0.741
'ASA classification'	2.129	1.781	1.195	0.235
'BMI_First Visit'	-0.361	0.231	-1.565	0.120
SiteBOR Op	0.257	2.502	0.103	0.918
SiteIST Op	-16.010	10.243	-1.563	0.121
SiteMAD Op	-1.397	3.043	-0.459	0.647
SiteZUR Op	-0.784	2.814	-0.279	0.781
'Global Tilt'	-0.082	0.093	-0.881	0.380
'Static Major curve Cobb angle'	0.052	0.062	0.832	0.407
'ODI - Score (%)_First Visit'	-0.012	0.093	-0.131	0.896
'SRS22 - SRS Subtotal score_First Visit'	2.882	3.161	0.912	0.364
'SF36 - MCS_First Visit'	-0.671	0.115	-5.828	0.000
'SF36 - PCS_First Visit'	-0.010	0.157	-0.061	0.952
'Global Tilt_6w_inc'	-0.097	0.105	-0.919	0.360
'Static Major curve Cobb angle_6w_inc'	0.080	0.086	0.939	0.350
had_major_complicationsYes	-0.998	1.857	-0.537	0.592

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	30.509	11.885	2.567	0.012
Age	0.024	0.075	0.321	0.749
GenderMale	-0.786	2.403	-0.327	0.744
'Prior Spine Surgery'Yes	-0.642	2.143	-0.300	0.765
'ASA classification'	2.062	1.776	1.161	0.248
'BMI_First Visit'	-0.345	0.231	-1.493	0.138
SiteBOR Op	0.327	2.502	0.131	0.896
SiteIST Op	-17.171	10.206	-1.682	0.095
SiteMAD Op	-1.276	3.042	-0.419	0.676
SiteZUR Op	-0.632	2.799	-0.226	0.822
'Global Tilt'	-0.079	0.093	-0.845	0.400
'Static Major curve Cobb angle'	0.053	0.062	0.851	0.397
'ODI - Score (%)_First Visit'	-0.011	0.093	-0.113	0.911
'SRS22 - SRS Subtotal score_First Visit'	2.877	3.149	0.913	0.363
'SF36 - MCS_First Visit'	-0.672	0.115	-5.847	0.000
'SF36 - PCS_First Visit'	-0.005	0.157	-0.032	0.974
'Global Tilt_6w_inc'	-0.095	0.105	-0.905	0.367
'Static Major curve Cobb angle_6w_inc'	0.079	0.086	0.922	0.359
had_reinterventionsYes	-1.457	1.906	-0.765	0.446

5Y vs 2Y Effects

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	57.420	4.723	12.157	0.000
Age	0.003	0.052	0.058	0.954
GenderMale	5.500	1.872	2.938	0.003
Prior_Spine_SurgeryYes	-1.587	1.732	-0.916	0.360
ASA_classification	-2.690	1.505	-1.787	0.075
BMI_First_Visit	-0.234	0.188	-1.244	0.214
SiteBOR Op	-3.443	2.246	-1.533	0.126
SiteIST Op	-11.809	8.706	-1.356	0.176

```
SiteMAD Op                                              -1.044     2.495  -0.419    0.676
SiteZUR Op                                               3.335     2.084   1.600    0.110
'5y_vs_2y_effect'                                       -4.682     7.268  -0.644    0.520
Age:'5y_vs_2y_effect'                                   -0.005     0.080  -0.066    0.948
GenderMale:'5y_vs_2y_effect'                            -3.062     2.949  -1.038    0.300
Prior_Spine_SurgeryYes:'5y_vs_2y_effect'               -0.764     2.627  -0.291    0.771
ASA_classification:'5y_vs_2y_effect'                    2.591     2.363   1.096    0.274
BMI_First_Visit:'5y_vs_2y_effect'                      -0.001     0.289  -0.002    0.998
SiteBOR Op:'5y_vs_2y_effect'                            3.634     3.425   1.061    0.289
SiteIST Op:'5y_vs_2y_effect'                            0.354    12.307   0.029    0.977
SiteMAD Op:'5y_vs_2y_effect'                            1.902     3.817   0.498    0.618
SiteZUR Op:'5y_vs_2y_effect'                            0.026     3.207   0.008    0.993


                                                       Estimate Std. Error t value
(Intercept)                                              51.720     4.891  10.574
Age                                                      -0.006     0.048  -0.122
GenderMale                                                3.402     1.568   2.169
Prior_Spine_SurgeryYes                                   -1.145     1.387  -0.825
ASA_classification                                       -1.421     1.188  -1.196
BMI_First_Visit                                          -0.327     0.154  -2.129
SiteBOR Op                                               -1.282     1.797  -0.713
SiteIST Op                                              -10.852     6.140  -1.767
SiteMAD Op                                                0.321     1.975   0.162
SiteZUR Op                                                4.132     1.751   2.360
Global_Tilt                                               0.071     0.056   1.274
Static_Major_curve_Cobb_angle                            0.076     0.041   1.854
'5y_vs_2y_effect'                                        6.068     3.449   1.760
Global_Tilt:'5y_vs_2y_effect'                           -0.075     0.073  -1.017
Static_Major_curve_Cobb_angle:'5y_vs_2y_effect'         -0.079     0.057  -1.380
                                                       Pr(>|t|)
(Intercept)                                              0.000
Age                                                      0.903
GenderMale                                               0.031
Prior_Spine_SurgeryYes                                   0.410
ASA_classification                                       0.233
BMI_First_Visit                                          0.034
SiteBOR Op                                               0.476
SiteIST Op                                               0.078
SiteMAD Op                                               0.871
SiteZUR Op                                               0.019
Global_Tilt                                              0.204
Static_Major_curve_Cobb_angle                            0.064
'5y_vs_2y_effect'                                        0.079
Global_Tilt:'5y_vs_2y_effect'                            0.310
Static_Major_curve_Cobb_angle:'5y_vs_2y_effect'         0.168
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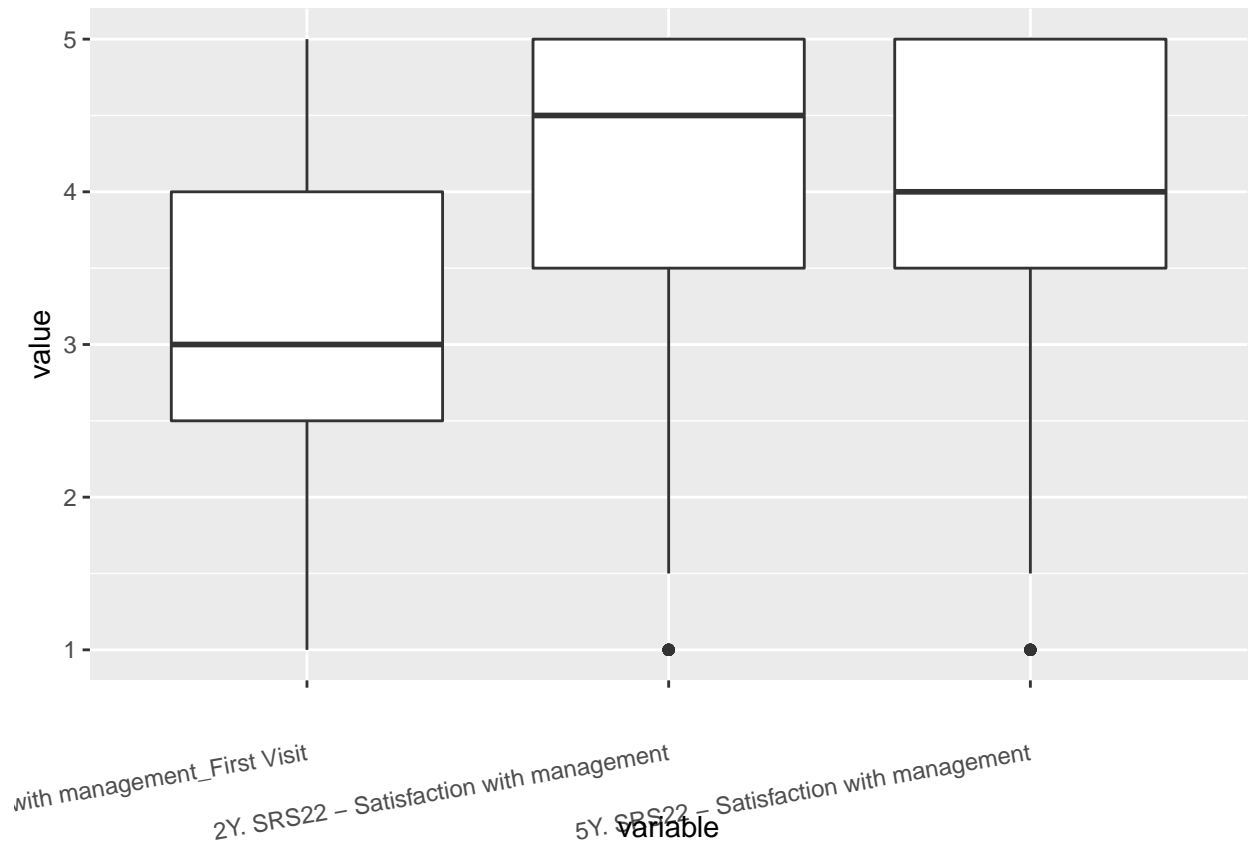
Basic stats

```
   type SRS22 - Satisfaction with management_First Visit
1: Mean                                         3.161585
2:   Sd                                         1.078137
   2Y. SRS22 - Satisfaction with management
1:                            4.076772
2:                            1.047778
   5Y. SRS22 - Satisfaction with management
1:                            3.938503
2:                            1.057596
```

t-test mean comparison p-values

```
        type        V2
1: base vs 5 0.00000
2:    2 vs 5 0.17391
3: base vs 2 0.00000
```

5 Years Gain Gain (odi neg / others pos) Factors

```
                  Estimate Std. Error t value Pr(>|t|)
(Intercept)          2.089      0.818   2.555    0.012
Age                  0.001      0.008   0.063    0.950
```

```
GenderMale                       -0.459     0.310  -1.478     0.142
'Prior Spine Surgery'Yes          0.125     0.253   0.493     0.623
'ASA classification'             -0.492     0.227  -2.163     0.033
'BMI_First Visit'                -0.013     0.031  -0.407     0.685
SiteBOR Op                        0.296     0.738   0.401     0.689
SiteMAD Op                       -0.215     0.344  -0.625     0.533
SiteZUR Op                        0.176     0.305   0.577     0.565
```

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	1.387	0.923	1.503	0.136
Age	0.011	0.010	1.126	0.263
GenderMale	-0.388	0.337	-1.152	0.252
'Prior Spine Surgery'Yes	0.140	0.264	0.531	0.597
'ASA classification'	-0.381	0.229	-1.665	0.099
'BMI_First Visit'	-0.003	0.031	-0.108	0.914
SiteBOR Op	0.589	0.751	0.784	0.435
SiteMAD Op	-0.209	0.353	-0.591	0.556
SiteZUR Op	0.001	0.323	0.004	0.997
'Global Tilt'	-0.010	0.010	-1.022	0.309
'Static Major curve Cobb angle'	-0.001	0.007	-0.221	0.825

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	4.693	1.582	2.967	0.004
Age	0.011	0.010	1.162	0.248
GenderMale	-0.238	0.326	-0.732	0.466
'Prior Spine Surgery'Yes	0.194	0.255	0.758	0.450
'ASA classification'	-0.348	0.244	-1.428	0.157
'BMI_First Visit'	-0.012	0.032	-0.375	0.708
SiteBOR Op	1.300	0.746	1.744	0.085
SiteMAD Op	0.127	0.350	0.361	0.719
SiteZUR Op	0.381	0.339	1.124	0.264
'Global Tilt'	-0.020	0.010	-2.073	0.041
'Static Major curve Cobb angle'	-0.001	0.007	-0.121	0.904
'ODI - Score (%)_First Visit'	-0.018	0.013	-1.400	0.165
'SRS22 - SRS Subtotal score_First Visit'	-0.515	0.423	-1.217	0.227
'SF36 - MCS_First Visit'	0.004	0.015	0.240	0.811
'SF36 - PCS_First Visit'	-0.037	0.022	-1.690	0.095

	Estimate	Std. Error	t value	Pr(>|t|)
(Intercept)	6.909	1.725	4.006	0.000
Age	0.018	0.012	1.542	0.129
GenderMale	-0.157	0.407	-0.386	0.701
'Prior Spine Surgery'Yes	0.396	0.327	1.211	0.231
'ASA classification'	-0.399	0.267	-1.496	0.140
'BMI_First Visit'	-0.051	0.036	-1.396	0.168
SiteBOR Op	0.414	0.842	0.492	0.625
SiteMAD Op	0.083	0.439	0.189	0.851
SiteZUR Op	0.504	0.419	1.201	0.235
'Global Tilt'	-0.008	0.016	-0.497	0.621
'Static Major curve Cobb angle'	0.002	0.011	0.235	0.815
'ODI - Score (%)_First Visit'	-0.032	0.015	-2.205	0.031
'SRS22 - SRS Subtotal score_First Visit'	-0.656	0.553	-1.186	0.240
'SF36 - MCS_First Visit'	-0.019	0.019	-1.001	0.321

```
‘SF36 - PCS_First Visit‘                       -0.035    0.026  -1.371    0.176
‘Global Tilt_6w_inc‘                           -0.014    0.017  -0.791    0.432
‘Static Major curve Cobb angle_6w_inc‘          0.007    0.014   0.536    0.594


                                        Estimate Std. Error t value Pr(>|t|)
(Intercept)                                     6.709    1.628   4.122    0.000
Age                                             0.019    0.011   1.678    0.099
GenderMale                                     -0.139    0.383  -0.363    0.718
‘Prior Spine Surgery‘Yes                        0.358    0.309   1.161    0.251
‘ASA classification‘                           -0.310    0.253  -1.222    0.227
‘BMI_First Visit‘                              -0.033    0.035  -0.952    0.345
SiteBOR Op                                      0.778    0.804   0.968    0.337
SiteMAD Op                                      0.129    0.415   0.312    0.756
SiteZUR Op                                      0.499    0.395   1.261    0.212
‘Global Tilt‘                                  -0.005    0.015  -0.313    0.755
‘Static Major curve Cobb angle‘                 0.005    0.010   0.521    0.605
‘ODI - Score (%)_First Visit‘                  -0.034    0.014  -2.457    0.017
‘SRS22 - SRS Subtotal score_First Visit‘       -0.977    0.533  -1.833    0.072
‘SF36 - MCS_First Visit‘                       -0.009    0.019  -0.487    0.628
‘SF36 - PCS_First Visit‘                       -0.029    0.024  -1.185    0.241
‘Global Tilt_6w_inc‘                           -0.010    0.016  -0.619    0.539
‘Static Major curve Cobb angle_6w_inc‘          0.009    0.013   0.650    0.518
had_major_complicationsYes                     -0.789    0.274  -2.874    0.006


                                        Estimate Std. Error t value Pr(>|t|)
(Intercept)                                     6.438    1.665   3.867    0.000
Age                                             0.019    0.011   1.703    0.094
GenderMale                                     -0.209    0.391  -0.535    0.595
‘Prior Spine Surgery‘Yes                        0.363    0.314   1.155    0.253
‘ASA classification‘                           -0.388    0.256  -1.518    0.135
‘BMI_First Visit‘                              -0.026    0.036  -0.704    0.484
SiteBOR Op                                      0.750    0.819   0.916    0.363
SiteMAD Op                                      0.231    0.426   0.542    0.590
SiteZUR Op                                      0.632    0.406   1.558    0.125
‘Global Tilt‘                                  -0.001    0.015  -0.049    0.961
‘Static Major curve Cobb angle‘                 0.003    0.010   0.341    0.734
‘ODI - Score (%)_First Visit‘                  -0.034    0.014  -2.376    0.021
‘SRS22 - SRS Subtotal score_First Visit‘       -0.901    0.539  -1.670    0.100
‘SF36 - MCS_First Visit‘                       -0.014    0.019  -0.725    0.472
‘SF36 - PCS_First Visit‘                       -0.029    0.025  -1.144    0.257
‘Global Tilt_6w_inc‘                           -0.010    0.017  -0.583    0.562
‘Static Major curve Cobb angle_6w_inc‘          0.009    0.013   0.636    0.527
had_reinterventionsYes                         -0.738    0.299  -2.466    0.017
```

5Y vs 2Y Effects

```
                                        Estimate Std. Error t value Pr(>|t|)
(Intercept)                                     4.940    0.389  12.715    0.000
Age                                            -0.005    0.004  -1.160    0.247
GenderMale                                      0.165    0.154   1.074    0.283
Prior_Spine_SurgeryYes                         -0.094    0.143  -0.655    0.513
ASA_classification                             -0.413    0.124  -3.329    0.001
BMI_First_Visit                                 0.005    0.016   0.311    0.756
```

SiteBOR Op	-0.021	0.186	-0.114	0.909
SiteIST Op	-0.131	0.591	-0.221	0.825
SiteMAD Op	-0.286	0.205	-1.396	0.163
SiteZUR Op	0.503	0.172	2.918	0.004
'5y_vs_2y_effect'	-0.048	0.603	-0.080	0.936
Age:'5y_vs_2y_effect'	-0.002	0.007	-0.269	0.788
GenderMale:'5y_vs_2y_effect'	-0.231	0.244	-0.946	0.344
Prior_Spine_SurgeryYes:'5y_vs_2y_effect'	0.274	0.217	1.259	0.209
ASA_classification:'5y_vs_2y_effect'	0.056	0.195	0.288	0.773
BMI_First_Visit:'5y_vs_2y_effect'	-0.005	0.024	-0.221	0.825
SiteBOR Op:'5y_vs_2y_effect'	-0.124	0.283	-0.439	0.661
SiteIST Op:'5y_vs_2y_effect'	-1.326	0.932	-1.423	0.156
SiteMAD Op:'5y_vs_2y_effect'	-0.069	0.314	-0.220	0.826
SiteZUR Op:'5y_vs_2y_effect'	0.099	0.266	0.373	0.709

	Estimate	Std. Error	t value
(Intercept)	4.500	0.398	11.314
Age	-0.006	0.004	-1.429
GenderMale	0.103	0.127	0.807
Prior_Spine_SurgeryYes	0.016	0.113	0.139
ASA_classification	-0.380	0.097	-3.936
BMI_First_Visit	0.006	0.013	0.498
SiteBOR Op	-0.106	0.146	-0.725
SiteIST Op	-0.610	0.450	-1.356
SiteMAD Op	-0.291	0.160	-1.819
SiteZUR Op	0.558	0.143	3.907
Global_Tilt	0.008	0.004	1.691
Static_Major_curve_Cobb_angle	0.004	0.003	1.089
'5y_vs_2y_effect'	0.130	0.281	0.462
Global_Tilt:'5y_vs_2y_effect'	-0.007	0.006	-1.173
Static_Major_curve_Cobb_angle:'5y_vs_2y_effect'	-0.002	0.005	-0.399

	Pr(>|t|)
(Intercept)	0.000
Age	0.154
GenderMale	0.420
Prior_Spine_SurgeryYes	0.890
ASA_classification	0.000
BMI_First_Visit	0.619
SiteBOR Op	0.469
SiteIST Op	0.176
SiteMAD Op	0.070
SiteZUR Op	0.000
Global_Tilt	0.092
Static_Major_curve_Cobb_angle	0.277
'5y_vs_2y_effect'	0.644
Global_Tilt:'5y_vs_2y_effect'	0.242
Static_Major_curve_Cobb_angle:'5y_vs_2y_effect'	0.690