

Loss of alignment

Initial Patients: 372

Selection criteria

```
data_ %<>% .['Posterior Instrumented Fusion' == 'Yes']
data[, 'Posterior Instrumented Fusion: Upper / Lower Levels'] %>%
  sapply(. %>% strsplit('-',) %>% .[[1]] %>% .[2]) ->
  post_intr_fusion

data_ %<>% .[post_intr_fusion == 'Iliac']

non_stable <- readLines('non_stable_degree.txt')
greater_than_10 <- data_[abs(diff_lordosis) >= 10, 'Code of the patient']
greater_than_10 <- greater_than_10 %in% non_stable
data_ %<>% .!('Code of the patient' %in% greater_than_10)]

data_ %<>% .[complications_bf_6m=='No']
```

Increment = Future - Baseline

Estability Increment Radiology

Static Major curve Cobb angle
Base Time point 6W. Static Major curve Cobb angle

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-1.4883	0.5186	308.0792	-2.8698	0.0044
time_point	0.4218	0.2715	166.2634	1.5537	0.1222

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-2.8523	4.2166	297.7303	-0.6765	0.4993
Age	-0.0533	0.0463	300.7783	-1.1503	0.2509
SiteBOR Op	1.2576	1.2158	286.1060	1.0344	0.3018
SiteIST Op	2.7270	2.3530	270.8498	1.1590	0.2475
SiteMAD Op	2.5534	1.4934	287.8314	1.7097	0.0884
SiteZUR Op	2.3822	3.7850	300.0207	0.6294	0.5296
'Prior Spine Surgery'Yes	2.2701	0.9703	297.5064	2.3396	0.0200
'Osteoporosis / osteopenia'Yes	-0.4322	1.0423	305.6474	-0.4146	0.6787
essg_categoryidiopathic	-1.4442	1.0477	294.0839	-1.3785	0.1691
essg_categoryothers	0.1537	1.5817	304.5128	0.0972	0.9227
Non_instrumented_segments	0.1472	0.1279	286.9553	1.1516	0.2504
inc_preop	-0.1508	0.0439	293.2178	-3.4306	0.0007
preop	-0.0193	0.0329	307.8219	-0.5863	0.5581

time_point	0.4334	0.2615	156.8922	1.6577	0.0994
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Coronal Balance (C7PL to CSVL)

Base Time point 6W. Coronal Balance (C7PL to CSVL)

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-0.4322	1.0601	291.0177	-0.4077	0.6838
time_point	0.5660	0.6677	139.2314	0.8477	0.3981

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	4.0467	6.9828	330.1275	0.5795	0.5626
Age	0.0144	0.0928	334.1695	0.1550	0.8769
SiteBOR Op	-2.5218	2.1524	327.1600	-1.1716	0.2422
SiteIST Op	-9.2785	4.5599	325.8173	-2.0348	0.0427
SiteMAD Op	-3.4603	3.5001	326.4020	-0.9886	0.3236
SiteZUR Op	10.4229	6.5159	344.9541	1.5996	0.1106
'Prior Spine Surgery'Yes	-0.8918	1.8795	332.5395	-0.4745	0.6354
'Osteoporosis / osteopenia'Yes	5.9069	2.1585	332.6577	2.7366	0.0065
essg_categoryidiopathic	7.0918	2.1844	328.2764	3.2466	0.0013
essg_categoryothers	3.2671	3.0706	321.1575	1.0640	0.2881
Non_instrumented_segments	-0.1457	0.2804	322.9131	-0.5196	0.6037
inc_preop	-0.3321	0.0562	330.0468	-5.9088	0.0000
preop	-0.2851	0.0608	328.0282	-4.6901	0.0000
time_point	0.6497	0.6067	130.8040	1.0708	0.2863

Sagittal Balance

Base Time point 6W. Sagittal Balance

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-4.3979	2.6269	289.5257	-1.6742	0.0952
time_point	6.4891	1.5346	145.7794	4.2286	0.0000

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-5.3995	15.6289	316.9722	-0.3455	0.7300
Age	-0.0840	0.2211	315.9087	-0.3799	0.7043
SiteBOR Op	-13.0797	5.0317	309.2412	-2.5995	0.0098
SiteIST Op	-25.2814	11.9197	311.9578	-2.1210	0.0347
SiteMAD Op	2.6983	8.1715	314.5829	0.3302	0.7415
SiteZUR Op	11.5222	19.4244	325.7225	0.5932	0.5535
'Prior Spine Surgery'Yes	-20.0247	4.5240	313.1338	-4.4264	0.0000
'Osteoporosis / osteopenia'Yes	10.3739	5.2594	319.6483	1.9724	0.0494
essg_categoryidiopathic	8.1341	4.9607	313.1293	1.6397	0.1021
essg_categoryothers	6.6702	7.3767	301.5862	0.9042	0.3666
Non_instrumented_segments	2.0106	0.6072	310.2533	3.3112	0.0010
inc_preop	-0.3998	0.0741	317.9499	-5.3950	0.0000
preop	-0.2496	0.0672	317.7816	-3.7157	0.0002
time_point	6.5955	1.4142	135.1759	4.6640	0.0000

Sagittal T2-T5

Base Time point 6W. Sagittal T2-T5

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-1.3487	0.5508	277.1161	-2.4484	0.0150
time_point	0.9649	0.3745	123.6218	2.5766	0.0112
	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	12.9535	3.6354	316.5384	3.5632	0.0004
Age	-0.0271	0.0456	316.1972	-0.5929	0.5537
SiteBOR Op	1.7296	1.0483	311.7860	1.6500	0.1000
SiteIST Op	-3.2174	2.8655	293.9753	-1.1228	0.2624
SiteMAD Op	2.0331	1.5208	313.8308	1.3368	0.1822
SiteZUR Op	5.9959	3.2170	328.7042	1.8638	0.0632
'Prior Spine Surgery'Yes	1.4471	0.9348	317.9249	1.5481	0.1226
'Osteoporosis / osteopenia'Yes	-1.9361	1.0853	317.2083	-1.7840	0.0754
essg_categoryidiopathic	-2.0622	1.0026	317.2552	-2.0568	0.0405
essg_categoryothers	-2.0512	1.5979	304.3260	-1.2837	0.2002
Non_instrumented_segments	-0.9587	0.1268	314.3703	-7.5580	0.0000
inc_preop	-0.5169	0.0663	315.5239	-7.8003	0.0000
preop	-0.3856	0.0651	315.2252	-5.9217	0.0000
time_point	1.0148	0.3065	128.2189	3.3110	0.0012

Sagittal T5-T12

Base Time point 6W. Sagittal T5-T12

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	1.4404	0.5875	307.5874	2.4517	0.0148
time_point	1.3354	0.3753	144.7749	3.5583	0.0005
	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-1.0877	4.1135	354.9045	-0.2644	0.7916
Age	0.1080	0.0525	356.9606	2.0578	0.0403
SiteBOR Op	1.6682	1.3052	352.4666	1.2781	0.2020
SiteIST Op	-0.5974	3.0871	331.6576	-0.1935	0.8467
SiteMAD Op	0.9537	1.9864	354.7724	0.4801	0.6314
SiteZUR Op	-2.6451	4.7698	354.2731	-0.5545	0.5796
'Prior Spine Surgery'Yes	-0.9040	1.1567	353.3587	-0.7816	0.4350
'Osteoporosis / osteopenia'Yes	-0.3952	1.3460	354.9617	-0.2936	0.7692
essg_categoryidiopathic	0.0724	1.1850	356.5666	0.0611	0.9513
essg_categoryothers	2.5170	1.8357	343.8233	1.3712	0.1712
Non_instrumented_segments	0.0485	0.1680	352.7918	0.2889	0.7728
inc_preop	-0.2163	0.0479	351.6140	-4.5137	0.0000
preop	-0.1459	0.0418	353.4986	-3.4926	0.0005
time_point	1.3335	0.3583	139.5380	3.7221	0.0003

Sagittal T2-T12

Base Time point 6W. Sagittal T2-T12

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	1.1810	0.6095	300.8326	1.9378	0.0536
time_point	1.4096	0.4220	131.0379	3.3402	0.0011
	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	5.3133	4.3973	359.1251	1.2083	0.2277

Age	0.1042	0.0542	359.2074	1.9217	0.0554
SiteBOR Op	3.6763	1.3126	357.3047	2.8008	0.0054
SiteIST Op	-6.0699	3.0924	347.2432	-1.9628	0.0505
SiteMAD Op	4.1003	2.0506	359.1961	1.9995	0.0463
SiteZUR Op	8.5107	3.9114	363.7435	2.1759	0.0302
'Prior Spine Surgery'Yes	1.4138	1.1515	358.7563	1.2277	0.2203
'Osteoporosis / osteopenia'Yes	-1.9704	1.2852	357.9856	-1.5331	0.1261
essg_categoryidiopathic	-2.7624	1.1989	360.2938	-2.3042	0.0218
essg_categoryothers	1.0212	1.8078	347.0336	0.5649	0.5725
Non_instrumented_segments	-0.9129	0.1652	358.5685	-5.5267	0.0000
inc_preop	-0.1430	0.0554	357.5647	-2.5838	0.0102
preop	-0.1189	0.0418	357.7597	-2.8440	0.0047
time_point	1.5216	0.3803	128.8005	4.0010	0.0001

Lordosis (top of L1-S1)

Base Time point 6W. Lordosis (top of L1-S1)

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	0.7115	0.4327	327.3510	1.6441	0.1011
time_point	0.6523	0.2844	154.4251	2.2936	0.0232

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-5.4481	3.2511	379.2738	-1.6758	0.0946
Age	-0.0371	0.0388	378.5685	-0.9579	0.3387
SiteBOR Op	-0.3887	0.9198	374.8445	-0.4226	0.6729
SiteIST Op	0.1841	1.9767	366.3373	0.0931	0.9259
SiteMAD Op	-0.5134	1.4775	375.2536	-0.3475	0.7284
SiteZUR Op	2.4333	2.5930	380.0431	0.9384	0.3486
'Prior Spine Surgery'Yes	-1.6040	0.7886	376.5607	-2.0341	0.0426
'Osteoporosis / osteopenia'Yes	0.5944	0.9395	376.0286	0.6327	0.5273
essg_categoryidiopathic	2.5489	0.9015	375.9456	2.8274	0.0049
essg_categoryothers	-1.5270	1.3185	366.1717	-1.1581	0.2476
Non_instrumented_segments	-0.0076	0.1112	376.4154	-0.0681	0.9457
inc_preop	-0.2235	0.0382	376.0740	-5.8486	0.0000
preop	-0.1250	0.0316	374.2654	-3.9511	0.0001
time_point	0.7123	0.2695	146.0215	2.6426	0.0091

Pelvic Incidence

Base Time point 6W. Pelvic Incidence

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	0.1173	0.2095	320.3402	0.5599	0.5759
time_point	0.0388	0.1043	168.5827	0.3720	0.7104

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	0.8540	1.2096	246.0530	0.7060	0.4809
Age	0.0024	0.0153	237.8067	0.1554	0.8766
SiteBOR Op	-0.0745	0.3659	246.2404	-0.2036	0.8388
SiteIST Op	1.1092	0.7475	269.4263	1.4839	0.1390
SiteMAD Op	0.7644	0.6120	227.0544	1.2490	0.2130
SiteZUR Op	-0.6370	0.9698	209.4604	-0.6568	0.5120
'Prior Spine Surgery'Yes	-0.5198	0.3157	239.5100	-1.6468	0.1009

'Osteoporosis / osteopenia'Yes	0.1434	0.4039	258.2001	0.3549	0.7229
essg_categoryidiopathic	-0.4104	0.3494	220.9203	-1.1746	0.2414
essg_categoryothers	0.4300	0.5431	311.9625	0.7918	0.4291
Non_instrumented_segments	0.0186	0.0438	236.1549	0.4253	0.6710
inc_preop	-0.2769	0.0456	250.5894	-6.0656	0.0000
preop	-0.0144	0.0117	218.2874	-1.2340	0.2185
time_point	0.0542	0.0915	203.5365	0.5920	0.5545

Pelvic Tilt

Base Time point 6W. Pelvic Tilt

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	2.1332	0.3746	316.4956	5.6939	0.0000
time_point	0.6632	0.2461	142.5445	2.6944	0.0079

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	1.2179	2.1587	361.1500	0.5642	0.5730
Age	-0.0055	0.0300	362.6172	-0.1833	0.8547
SiteBOR Op	0.9419	0.7172	357.0441	1.3133	0.1899
SiteIST Op	1.1852	1.4448	344.3098	0.8203	0.4126
SiteMAD Op	2.2700	1.0760	357.1086	2.1097	0.0356
SiteZUR Op	1.8682	1.8851	363.6812	0.9910	0.3223
'Prior Spine Surgery'Yes	-0.1563	0.6245	358.6114	-0.2503	0.8025
'Osteoporosis / osteopenia'Yes	-0.4591	0.7401	361.8616	-0.6204	0.5354
essg_categoryidiopathic	0.0660	0.6790	358.3764	0.0972	0.9226
essg_categoryothers	-1.0848	1.0137	352.7946	-1.0702	0.2853
Non_instrumented_segments	-0.0354	0.0921	359.0092	-0.3850	0.7005
inc_preop	-0.4259	0.0431	363.6122	-9.8760	0.0000
preop	-0.0866	0.0362	362.1804	-2.3927	0.0172
time_point	0.7111	0.1978	147.9777	3.5955	0.0004

Sacral Slope

Base Time point 6W. Sacral Slope

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-2.0676	0.4031	318.3967	-5.1292	0.0000
time_point	-0.6523	0.2519	147.1163	-2.5895	0.0106

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	4.0682	2.3565	345.6480	1.7264	0.0852
Age	0.0270	0.0293	341.5159	0.9213	0.3576
SiteBOR Op	-1.0664	0.7199	337.6136	-1.4813	0.1395
SiteIST Op	0.5431	1.4457	328.8737	0.3757	0.7074
SiteMAD Op	-0.9578	1.0594	334.5095	-0.9041	0.3666
SiteZUR Op	-2.6690	1.8823	338.4667	-1.4179	0.1571
'Prior Spine Surgery'Yes	0.0036	0.6344	336.7040	0.0057	0.9955
'Osteoporosis / osteopenia'Yes	1.2625	0.7307	345.8724	1.7278	0.0849
essg_categoryidiopathic	-0.3409	0.6790	333.6238	-0.5021	0.6160
essg_categoryothers	2.0594	1.0121	341.1303	2.0348	0.0426
Non_instrumented_segments	0.0850	0.0904	333.0218	0.9407	0.3475
inc_preop	-0.4742	0.0402	343.3557	-11.7916	0.0000
preop	-0.1511	0.0295	334.0143	-5.1192	0.0000

time_point	-0.6868	0.1896	156.3972	-3.6228	0.0004
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RLL

Base Time point 6W. RLL

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-0.8272	0.4178	324.2850	-1.9801	0.0485
time_point	-0.6745	0.2800	151.6904	-2.4087	0.0172

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-1.2357	2.6352	373.7220	-0.4689	0.6394
Age	0.0068	0.0376	375.3860	0.1801	0.8571
SiteBOR Op	-0.0442	0.9032	371.7779	-0.0490	0.9610
SiteIST Op	-2.0426	1.9285	363.5929	-1.0592	0.2902
SiteMAD Op	0.1390	1.4716	373.0452	0.0945	0.9248
SiteZUR Op	-1.0204	2.5129	376.2674	-0.4061	0.6849
'Prior Spine Surgery'Yes	1.9219	0.7617	373.0332	2.5231	0.0120
'Osteoporosis / osteopenia'Yes	-1.1751	0.9135	372.1856	-1.2864	0.1991
essg_categoryidiopathic	-2.0357	0.8711	372.4481	-2.3370	0.0200
essg_categoryothers	1.1992	1.2799	363.2451	0.9369	0.3494
Non_instrumented_segments	-0.0811	0.1109	374.1781	-0.7318	0.4647
inc_preop	-0.2489	0.0421	373.6075	-5.9080	0.0000
preop	-0.1867	0.0379	372.3023	-4.9258	0.0000
time_point	-0.7319	0.2626	145.2019	-2.7870	0.0060

Global Tilt

Base Time point 6W. Global Tilt

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	2.0363	0.3964	305.4141	5.1367	0
time_point	1.5384	0.2722	146.7264	5.6514	0

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	2.3317	2.6222	356.0352	0.8892	0.3745
Age	-0.0472	0.0384	357.6250	-1.2303	0.2194
SiteBOR Op	0.2202	0.8919	353.7569	0.2469	0.8052
SiteIST Op	-0.9627	1.7500	343.6462	-0.5501	0.5826
SiteMAD Op	0.3744	1.3708	355.8215	0.2731	0.7849
SiteZUR Op	0.5743	2.5308	355.7985	0.2269	0.8206
'Prior Spine Surgery'Yes	-2.1850	0.7762	355.2879	-2.8149	0.0052
'Osteoporosis / osteopenia'Yes	-1.2854	0.8970	355.7839	-1.4330	0.1527
essg_categoryidiopathic	1.8877	0.8500	356.3742	2.2208	0.0270
essg_categoryothers	0.3850	1.2218	346.9440	0.3151	0.7529
Non_instrumented_segments	0.0241	0.1097	356.4823	0.2195	0.8264
inc_preop	-0.0849	0.0435	357.2170	-1.9526	0.0516
preop	0.0404	0.0372	357.8019	1.0865	0.2780
time_point	1.5874	0.2630	136.4653	6.0358	0.0000

T1 Sagittal Tilt

Base Time point 6W. T1 Sagittal Tilt

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-0.6937	0.3156	228.8342	-2.1985	0.0289
time_point	0.4941	0.1943	108.1028	2.5433	0.0124

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-6.0933	1.7314	257.8708	-3.5192	0.0005
Age	0.0177	0.0246	255.3064	0.7211	0.4715
SiteBOR Op	-1.9764	0.6045	246.8620	-3.2694	0.0012
SiteIST Op	-0.4544	1.3442	256.4728	-0.3381	0.7356
SiteMAD Op	0.2631	0.8984	242.9736	0.2928	0.7699
SiteZUR Op	0.8509	1.5651	242.7957	0.5437	0.5871
'Prior Spine Surgery'Yes	-2.1090	0.5304	250.8573	-3.9765	0.0001
'Osteoporosis / osteopenia'Yes	1.8914	0.6465	257.6625	2.9255	0.0037
essg_categoryidiopathic	1.2364	0.5610	247.7985	2.2038	0.0285
essg_categoryothers	1.4288	0.8161	255.0594	1.7507	0.0812
Non_instrumented_segments	0.3471	0.0665	247.4189	5.2184	0.0000
inc_preop	-0.6063	0.0808	247.7923	-7.4992	0.0000
preop	-0.4584	0.0738	246.0561	-6.2146	0.0000
time_point	0.4756	0.1562	121.2999	3.0450	0.0029

Thoracolumbar L2-T10

Base Time point 6W. Thoracolumbar L2-T10

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-0.2694	0.5679	263.9935	-0.4745	0.6355
time_point	0.2808	0.3633	118.8539	0.7729	0.4411

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-4.7920	3.5032	317.2364	-1.3679	0.1723
Age	0.0707	0.0471	314.2870	1.5025	0.1340
SiteBOR Op	-1.3858	1.1207	312.1605	-1.2365	0.2172
SiteIST Op	-6.2340	2.2950	298.7780	-2.7163	0.0070
SiteMAD Op	-1.0110	1.8689	301.0802	-0.5409	0.5890
SiteZUR Op	4.1297	3.4177	328.8712	1.2083	0.2278
'Prior Spine Surgery'Yes	-2.7676	1.0336	313.6336	-2.6776	0.0078
'Osteoporosis / osteopenia'Yes	-2.4398	1.2131	314.0334	-2.0113	0.0451
essg_categoryidiopathic	2.0666	1.1203	311.0874	1.8446	0.0660
essg_categoryothers	3.8919	1.7430	308.8912	2.2329	0.0263
Non_instrumented_segments	0.3850	0.1501	309.2841	2.5656	0.0108
inc_preop	-0.3460	0.0591	312.4840	-5.8547	0.0000
preop	-0.2253	0.0524	304.4574	-4.3023	0.0000
time_point	0.3331	0.3340	113.7803	0.9972	0.3208

RSA

Base Time point 6W. RSA

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	1.9479	0.3956	305.3030	4.9238	0
time_point	1.5476	0.2677	147.2692	5.7812	0

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	1.4736	2.6061	355.1048	0.5654	0.5721

Age	-0.0218	0.0380	356.7809	-0.5749	0.5657
SiteBOR Op	0.6721	0.8798	350.7451	0.7639	0.4454
SiteIST Op	-1.5433	1.7106	339.8595	-0.9022	0.3676
SiteMAD Op	0.6731	1.3388	352.7539	0.5027	0.6155
SiteZUR Op	1.8897	2.4786	352.9812	0.7624	0.4463
'Prior Spine Surgery'Yes	-1.9241	0.7629	352.9409	-2.5221	0.0121
'Osteoporosis / osteopenia'Yes	-1.0639	0.8684	353.5926	-1.2251	0.2214
essg_categoryidiopathic	1.5920	0.8514	353.8056	1.8698	0.0623
essg_categoryothers	-0.4212	1.1998	344.3110	-0.3511	0.7258
Non_instrumented_segments	0.0758	0.1067	354.2298	0.7100	0.4781
inc_preop	-0.1996	0.0505	354.7147	-3.9550	0.0001
preop	-0.0777	0.0494	355.0375	-1.5730	0.1166
time_point	1.6203	0.2532	135.6366	6.3984	0.0000

RPV

Base Time point 6W. RPV

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-2.1613	0.3773	318.2699	-5.7289	0.0000
time_point	-0.6548	0.2451	144.5407	-2.6714	0.0084

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-0.8858	2.0304	355.7941	-0.4362	0.6629
Age	0.0003	0.0284	355.9538	0.0096	0.9924
SiteBOR Op	-1.4318	0.6873	349.6375	-2.0830	0.0380
SiteIST Op	-0.5611	1.3731	338.5359	-0.4086	0.6831
SiteMAD Op	-1.8792	1.0093	348.6829	-1.8618	0.0635
SiteZUR Op	-2.5581	1.7909	355.2226	-1.4284	0.1541
'Prior Spine Surgery'Yes	0.2401	0.6011	350.0055	0.3994	0.6898
'Osteoporosis / osteopenia'Yes	0.6750	0.6938	356.0226	0.9730	0.3312
essg_categoryidiopathic	-0.0902	0.6461	349.4343	-0.1395	0.8891
essg_categoryothers	2.1524	0.9679	348.2864	2.2237	0.0268
Non_instrumented_segments	0.0333	0.0866	349.7336	0.3840	0.7012
inc_preop	-0.5253	0.0434	355.9075	-12.0941	0.0000
preop	-0.2471	0.0450	348.8137	-5.4921	0.0000
time_point	-0.7138	0.1846	151.2977	-3.8659	0.0002