

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 Quality of Life

ODI - Score (%)

Base Time point 6M. ODI - Score (%)

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-1.3771	0.7820	329.9325	-1.7609	0.0792
time_point	0.6789	0.6215	102.1094	1.0923	0.2773

SRS22 - SRS Subtotal score

Base Time point 6M. SRS22 - SRS Subtotal score

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	0.0361	0.0278	356.7124	1.2997	0.1945
time_point	-0.0361	0.0224	115.0155	-1.6157	0.1089

SF36 - PCS

Base Time point 6M. SF36 - PCS

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	1.0631	0.3988	329.5117	2.6658	0.0081
time_point	-0.1569	0.2777	113.5470	-0.5651	0.5731

SF36 - MCS

Base Time point 6M. SF36 - MCS

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-0.3543	0.5900	331.5284	-0.6006	0.5485
time_point	-0.6354	0.3783	123.6069	-1.6796	0.0956

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)	-0.8588	0.3519	382.3206	-2.4407	0.0151
time_point	0.1936	0.2430	116.4670	0.7970	0.4271

Preop & Inc preop variable: Static Major curve Cobb angle
Basic Demographics

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	2.1187	1.9774	443.1813	1.0715	0.2845
Age	-0.0472	0.0315	440.6801	-1.5000	0.1343
SiteBOR Op	-0.5632	0.7336	437.9987	-0.7678	0.4430
SiteIST Op	2.0258	1.7707	422.7221	1.1441	0.2532
SiteMAD Op	1.9364	1.1030	434.4176	1.7555	0.0799
SiteZUR Op	2.8200	2.8564	435.2504	0.9873	0.3241
time_point	0.1973	0.2363	117.8320	0.8349	0.4055

Factors

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-1.8747	3.2442	431.8140	-0.5779	0.5636
Age	-0.0357	0.0357	433.4299	-1.0001	0.3178
SiteBOR Op	0.8734	0.9456	426.2702	0.9236	0.3562
SiteIST Op	1.8977	1.8347	414.1204	1.0344	0.3016
SiteMAD Op	1.8080	1.1725	423.8260	1.5419	0.1238
SiteZUR Op	1.2879	2.9599	427.1751	0.4351	0.6637
'Prior Spine Surgery'Yes	1.6601	0.7511	430.5507	2.2101	0.0276
'Osteoporosis / osteopenia'Yes	-0.2346	0.8020	433.9534	-0.2926	0.7700
essg_categoryidiopathic	-1.0206	0.8156	430.5750	-1.2513	0.2115
essg_categoryothers	0.2449	1.2032	433.4895	0.2036	0.8388
Non_instrumented_segments	0.0973	0.0984	427.3070	0.9880	0.3237
inc_preop	-0.1076	0.0341	428.8026	-3.1553	0.0017
preop	-0.0151	0.0251	434.9075	-0.6008	0.5483
time_point	0.2016	0.2335	112.0392	0.8633	0.3898

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)	-0.2233	0.7002	370.6558	-0.3189	0.7500
time_point	0.4738	0.6114	107.0222	0.7749	0.4401

Preop & Inc preop variable: Coronal Balance (C7PL to CSVL)

Basic Demographics

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	4.9656	4.1382	436.7307	1.1999	0.2308
Age	-0.0761	0.0655	436.9406	-1.1611	0.2462
SiteBOR Op	-0.3018	1.5800	438.0985	-0.1910	0.8486
SiteIST Op	-2.8586	3.2271	437.2158	-0.8858	0.3762
SiteMAD Op	-3.2243	2.5546	438.1188	-1.2622	0.2076
SiteZUR Op	11.1966	4.7011	423.4648	2.3817	0.0177
time_point	0.4894	0.6067	105.8458	0.8066	0.4217

Factors

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	3.2304	5.2046	431.9523	0.6207	0.5351
Age	0.0051	0.0696	431.3937	0.0728	0.9420
SiteBOR Op	-1.8618	1.6205	431.9879	-1.1489	0.2513
SiteIST Op	-5.5328	3.3091	431.6837	-1.6720	0.0953
SiteMAD Op	-2.5674	2.6638	432.0000	-0.9638	0.3357
SiteZUR Op	6.3557	4.6828	420.5719	1.3572	0.1754
'Prior Spine Surgery'Yes	-0.4498	1.4018	431.3231	-0.3209	0.7485
'Osteoporosis / osteopenia'Yes	3.8071	1.6073	431.6142	2.3687	0.0183
essg_categoryidiopathic	4.7178	1.6376	431.7692	2.8809	0.0042
essg_categoryothers	1.7215	2.2608	431.7894	0.7614	0.4468
Non_instrumented_segments	-0.1110	0.2075	431.9968	-0.5349	0.5930
inc_preop	-0.2144	0.0425	431.7149	-5.0381	0.0000
preop	-0.1860	0.0461	431.9651	-4.0379	0.0001
time_point	0.5319	0.5608	103.8011	0.9484	0.3451

Sagittal Balance

Base Time point 6W. Sagittal Balance

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-2.4744	1.7317	367.2347	-1.4289	0.1539
time_point	5.7855	1.3857	109.2341	4.1753	0.0001

Preop & Inc preop variable: Sagittal Balance

Basic Demographics

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	4.2786	10.1131	432.9873	0.4231	0.6725
Age	-0.0149	0.1610	432.9844	-0.0923	0.9265
SiteBOR Op	-7.1072	3.8482	432.7491	-1.8469	0.0654
SiteIST Op	-23.5882	8.7860	432.6483	-2.6848	0.0075

SiteMAD Op	-3.0148	5.9753	432.9616	-0.5046	0.6141
SiteZUR Op	-12.3254	12.6653	432.5665	-0.9732	0.3310
time_point	5.7697	1.3774	105.3949	4.1888	0.0001

Factors

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-1.8601	11.8199	425.1814	-0.1574	0.8750
Age	-0.0814	0.1685	425.3309	-0.4830	0.6294
SiteBOR Op	-8.4930	3.8280	423.8667	-2.2186	0.0270
SiteIST Op	-14.9308	8.7310	424.9452	-1.7101	0.0880
SiteMAD Op	1.9609	6.2703	424.4911	0.3127	0.7546
SiteZUR Op	2.0409	12.7829	424.2982	0.1597	0.8732
'Prior Spine Surgery'Yes	-12.9371	3.4192	425.0901	-3.7837	0.0002
'Osteoporosis / osteopenia'Yes	7.6940	3.9503	425.5591	1.9477	0.0521
essg_categoryidiopathic	5.3678	3.7762	425.1162	1.4215	0.1559
essg_categoryothers	4.0063	5.4495	422.6566	0.7352	0.4626
Non_instrumented_segments	1.3211	0.4584	424.6729	2.8819	0.0042
inc_preop	-0.2553	0.0555	425.7014	-4.5985	0.0000
preop	-0.1578	0.0505	425.8091	-3.1263	0.0019
time_point	5.8785	1.2731	108.3603	4.6174	0.0000

Sagittal T2-T5

Base Time point 6W. Sagittal T2-T5

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-0.7644	0.3662	350.8441	-2.0870	0.0376
time_point	0.7374	0.3479	95.9968	2.1194	0.0366

Preop & Inc preop variable: Sagittal T2-T5

Basic Demographics

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-3.6307	2.2421	413.6342	-1.6194	0.1061
Age	0.0259	0.0355	414.2300	0.7289	0.4665
SiteBOR Op	1.3179	0.8431	415.2485	1.5631	0.1188
SiteIST Op	-1.2790	2.1604	417.2729	-0.5920	0.5542
SiteMAD Op	2.8549	1.1848	413.1746	2.4097	0.0164
SiteZUR Op	4.9310	2.4419	413.9421	2.0193	0.0441
time_point	0.7639	0.3400	97.5186	2.2467	0.0269

Factors

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	8.3804	2.7896	410.8030	3.0041	0.0028
Age	-0.0171	0.0352	410.7897	-0.4868	0.6267
SiteBOR Op	1.0575	0.8165	410.9852	1.2951	0.1960
SiteIST Op	-1.7871	2.1036	409.4364	-0.8496	0.3961
SiteMAD Op	1.3945	1.1881	410.9385	1.1737	0.2412
SiteZUR Op	3.8689	2.3872	407.3838	1.6207	0.1059
'Prior Spine Surgery'Yes	0.9579	0.7243	410.6424	1.3226	0.1867
'Osteoporosis / osteopenia'Yes	-1.1906	0.8348	410.6722	-1.4261	0.1546
essg_categoryidiopathic	-1.2542	0.7802	410.3594	-1.6076	0.1087
essg_categoryothers	-1.1480	1.2178	410.5469	-0.9427	0.3464
Non_instrumented_segments	-0.6077	0.0981	410.7934	-6.1922	0.0000

inc_preop	-0.3389	0.0515	410.8250	-6.5778	0.0000
preop	-0.2529	0.0502	410.9450	-5.0386	0.0000
time_point	0.7828	0.2920	99.3429	2.6808	0.0086

Sagittal T5-T12

Base Time point 6W. Sagittal T5-T12

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	0.8373	0.3918	391.1481	2.1373	0.0332
time_point	1.5331	0.3450	111.9778	4.4445	0.0000

Preop & Inc preop variable: Sagittal T5-T12

Basic Demographics

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-2.8739	2.3358	463.6528	-1.2304	0.2192
Age	0.0348	0.0370	463.9201	0.9408	0.3473
SiteBOR Op	1.9015	0.9038	464.6813	2.1038	0.0359
SiteIST Op	1.9901	2.0696	462.2644	0.9616	0.3367
SiteMAD Op	2.7163	1.3142	464.0157	2.0669	0.0393
SiteZUR Op	-2.5468	3.0046	455.8547	-0.8476	0.3971
time_point	1.5400	0.3344	109.2831	4.6052	0.0000

Factors

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-0.2552	3.0374	457.4868	-0.0840	0.9331
Age	0.0635	0.0388	456.6862	1.6371	0.1023
SiteBOR Op	1.0850	0.9727	457.7185	1.1154	0.2652
SiteIST Op	-0.4815	2.2405	456.5887	-0.2149	0.8299
SiteMAD Op	0.5208	1.4811	457.0461	0.3516	0.7253
SiteZUR Op	-1.3712	3.0675	448.1143	-0.4470	0.6551
'Prior Spine Surgery'Yes	-0.5457	0.8489	457.4779	-0.6429	0.5206
'Osteoporosis / osteopenia'Yes	-0.2686	0.9815	457.1052	-0.2736	0.7845
essg_categoryidiopathic	-0.0854	0.8806	456.3975	-0.0969	0.9228
essg_categoryothers	1.5605	1.3416	457.8516	1.1631	0.2454
Non_instrumented_segments	0.0173	0.1237	457.3843	0.1398	0.8889
inc_preop	-0.1414	0.0355	457.6077	-3.9878	0.0001
preop	-0.0939	0.0308	457.6770	-3.0496	0.0024
time_point	1.5380	0.3294	110.8181	4.6695	0.0000

Sagittal T2-T12

Base Time point 6W. Sagittal T2-T12

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	0.6912	0.4036	384.1860	1.7127	0.0876
time_point	1.5504	0.3937	103.6151	3.9384	0.0001

Preop & Inc preop variable: Sagittal T2-T12

Basic Demographics

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-4.9114	2.4416	456.9565	-2.0116	0.0449

Age	0.0527	0.0392	457.4438	1.3445	0.1795
SiteBOR Op	2.8470	0.9210	457.9911	3.0913	0.0021
SiteIST Op	-0.1468	2.0689	460.9740	-0.0710	0.9435
SiteMAD Op	4.4168	1.3369	455.9231	3.3038	0.0010
SiteZUR Op	4.5765	2.8116	456.8795	1.6277	0.1043
time_point	1.5930	0.3723	104.2061	4.2790	0.0000

Factors

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	3.8299	3.2528	450.5130	1.1774	0.2396
Age	0.0603	0.0402	450.1992	1.5003	0.1342
SiteBOR Op	2.3464	0.9765	451.2271	2.4028	0.0167
SiteIST Op	-3.7160	2.2302	454.1063	-1.6662	0.0964
SiteMAD Op	2.6690	1.5292	449.6533	1.7453	0.0816
SiteZUR Op	5.1675	2.7894	449.1353	1.8526	0.0646
'Prior Spine Surgery'Yes	1.0516	0.8550	451.3110	1.2299	0.2194
'Osteoporosis / osteopenia'Yes	-1.2090	0.9473	451.4985	-1.2763	0.2025
essg_categoryidiopathic	-1.8392	0.8898	447.6309	-2.0670	0.0393
essg_categoryothers	0.7572	1.3230	454.6811	0.5723	0.5674
Non_instrumented_segments	-0.5910	0.1219	450.1457	-4.8472	0.0000
inc_preop	-0.0907	0.0407	450.7490	-2.2291	0.0263
preop	-0.0775	0.0306	449.9668	-2.5323	0.0117
time_point	1.6141	0.3600	101.6128	4.4837	0.0000

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)	0.4173	0.2903	413.2930	1.4376	0.1513
time_point	0.7528	0.2607	122.0155	2.8876	0.0046

Preop & Inc preop variable: Lordosis (top of L1-S1)

Basic Demographics

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	1.1448	1.7193	480.3685	0.6658	0.5058
Age	-0.0076	0.0274	480.7658	-0.2782	0.7809
SiteBOR Op	-0.0388	0.6645	481.5828	-0.0584	0.9534
SiteIST Op	-1.1366	1.3912	482.5695	-0.8170	0.4143
SiteMAD Op	-1.4934	1.0073	480.5936	-1.4826	0.1388
SiteZUR Op	-0.7636	1.8674	477.9113	-0.4089	0.6828
time_point	0.7503	0.2592	122.2298	2.8944	0.0045

Factors

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-3.4365	2.4194	473.2215	-1.4204	0.1561
Age	-0.0251	0.0288	473.5038	-0.8700	0.3848
SiteBOR Op	-0.3070	0.6862	475.1123	-0.4474	0.6548
SiteIST Op	0.4433	1.4359	475.8791	0.3087	0.7577
SiteMAD Op	-0.3465	1.1089	475.0522	-0.3125	0.7548
SiteZUR Op	1.6842	1.9536	472.6269	0.8621	0.3891
'Prior Spine Surgery'Yes	-0.9933	0.5867	474.3826	-1.6929	0.0911
'Osteoporosis / osteopenia'Yes	0.3827	0.6961	474.8822	0.5498	0.5827

essg_categoryidiopathic	1.7356	0.6669	473.8758	2.6026	0.0095
essg_categoryothers	-1.0704	0.9629	475.9981	-1.1116	0.2669
Non_instrumented_segments	0.0000	0.0821	473.8442	0.0002	0.9998
inc_preop	-0.1448	0.0283	474.8717	-5.1131	0.0000
preop	-0.0782	0.0234	474.8119	-3.3447	0.0009
time_point	0.7836	0.2483	119.4668	3.1562	0.0020

Pelvic Incidence

Base Time point 6W. Pelvic Incidence

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	0.0777	0.1405	401.1507	0.5529	0.5806
time_point	0.0446	0.0927	117.5217	0.4816	0.6310

Preop & Inc preop variable: Pelvic Incidence

Basic Demographics

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-0.1668	0.7723	463.5873	-0.2160	0.8291
Age	0.0068	0.0123	459.0201	0.5496	0.5829
SiteBOR Op	-0.2812	0.2979	455.7523	-0.9438	0.3458
SiteIST Op	0.8189	0.6083	457.2342	1.3462	0.1789
SiteMAD Op	-0.3162	0.4506	451.8293	-0.7016	0.4833
SiteZUR Op	-0.9542	0.8380	452.5673	-1.1386	0.2555
time_point	0.0435	0.0930	112.7383	0.4677	0.6409

Factors

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	0.4068	0.9776	402.5057	0.4161	0.6775
Age	0.0036	0.0125	391.4187	0.2849	0.7759
SiteBOR Op	-0.0410	0.2989	392.0924	-0.1370	0.8911
SiteIST Op	0.8793	0.5973	412.1089	1.4720	0.1418
SiteMAD Op	0.6166	0.5044	376.0825	1.2224	0.2223
SiteZUR Op	-0.5300	0.8063	362.6990	-0.6574	0.5114
'Prior Spine Surgery'Yes	-0.3783	0.2572	390.4353	-1.4706	0.1422
'Osteoporosis / osteopenia'Yes	0.1142	0.3254	412.3578	0.3508	0.7259
essg_categoryidiopathic	-0.3027	0.2859	375.5507	-1.0586	0.2905
essg_categoryothers	0.3483	0.4290	437.8958	0.8120	0.4172
Non_instrumented_segments	0.0143	0.0355	388.9124	0.4036	0.6867
inc_preop	-0.1889	0.0372	386.6414	-5.0790	0.0000
preop	-0.0095	0.0096	377.7025	-0.9865	0.3245
time_point	0.0589	0.0801	124.2012	0.7360	0.4631

Pelvic Tilt

Base Time point 6W. Pelvic Tilt

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	1.2401	0.2556	401.2272	4.8515	0
time_point	0.9716	0.2275	112.0633	4.2701	0

Preop & Inc preop variable: Pelvic Tilt

Basic Demographics

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	0.8102	1.4923	474.9158	0.5429	0.5874
Age	-0.0082	0.0238	475.3932	-0.3427	0.7320
SiteBOR Op	1.5374	0.5792	476.3400	2.6541	0.0082
SiteIST Op	0.0812	1.1860	477.9984	0.0685	0.9454
SiteMAD Op	0.4876	0.8749	475.1874	0.5573	0.5776
SiteZUR Op	-0.8820	1.6212	472.1232	-0.5441	0.5867
time_point	0.9778	0.2257	110.1532	4.3328	0.0000

Factors

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	0.6890	1.7169	470.8774	0.4013	0.6884
Age	-0.0038	0.0240	470.9865	-0.1567	0.8756
SiteBOR Op	0.6887	0.5761	470.3340	1.1954	0.2325
SiteIST Op	0.7203	1.1370	468.3297	0.6335	0.5267
SiteMAD Op	1.5431	0.8704	470.3418	1.7729	0.0769
SiteZUR Op	1.2830	1.5303	470.9952	0.8384	0.4022
'Prior Spine Surgery'Yes	-0.0616	0.4991	470.7381	-0.1234	0.9019
'Osteoporosis / osteopenia'Yes	-0.3448	0.5889	470.9144	-0.5855	0.5585
essg_categoryidiopathic	0.0232	0.5426	470.8368	0.0427	0.9659
essg_categoryothers	-0.8564	0.7975	469.6012	-1.0738	0.2835
Non_instrumented_segments	-0.0265	0.0732	470.9709	-0.3623	0.7173
inc_preop	-0.2789	0.0346	470.9977	-8.0621	0.0000
preop	-0.0581	0.0290	470.9924	-2.0013	0.0459
time_point	1.0066	0.1890	114.8242	5.3251	0.0000

Sacral Slope

Base Time point 6W. Sacral Slope

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-1.2023	0.2742	402.4774	-4.3854	0e+00
time_point	-0.9527	0.2317	113.3844	-4.1117	1e-04

Preop & Inc preop variable: Sacral Slope

Basic Demographics

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-1.4112	1.5771	478.0159	-0.8949	0.3713
Age	0.0229	0.0252	478.3620	0.9109	0.3628
SiteBOR Op	-2.0081	0.6107	478.8045	-3.2884	0.0011
SiteIST Op	0.8777	1.2505	478.4561	0.7019	0.4831
SiteMAD Op	-0.7106	0.9237	478.4498	-0.7693	0.4421
SiteZUR Op	-0.6172	1.7138	476.8754	-0.3601	0.7189
time_point	-0.9636	0.2288	111.7657	-4.2107	0.0001

Factors

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	2.6015	1.9328	468.6450	1.3460	0.1790
Age	0.0203	0.0241	467.2255	0.8418	0.4003
SiteBOR Op	-0.7225	0.5956	464.6721	-1.2131	0.2257
SiteIST Op	0.4687	1.1720	462.3148	0.3999	0.6894
SiteMAD Op	-0.6028	0.8834	463.4235	-0.6824	0.4953

SiteZUR Op	-1.9063	1.5737	466.1116	-1.2113	0.2264
'Prior Spine Surgery'Yes	-0.0445	0.5232	465.0570	-0.0851	0.9322
'Osteoporosis / osteopenia'Yes	0.8669	0.5990	467.9156	1.4471	0.1485
essg_categoryidiopathic	-0.2322	0.5591	465.3124	-0.4152	0.6782
essg_categoryothers	1.4901	0.8195	465.9170	1.8182	0.0697
Non_instrumented_segments	0.0620	0.0741	465.5941	0.8361	0.4035
inc_preop	-0.3145	0.0331	467.0816	-9.5145	0.0000
preop	-0.0980	0.0243	465.5787	-4.0337	0.0001
time_point	-0.9769	0.1818	118.2961	-5.3740	0.0000

RLL

Base Time point 6W. RLL

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-0.4857	0.2803	409.4849	-1.7327	0.0839
time_point	-0.7902	0.2570	120.7267	-3.0750	0.0026

Preop & Inc preop variable: RLL

Basic Demographics

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-0.8791	1.6566	474.6501	-0.5307	0.5959
Age	0.0014	0.0264	475.0600	0.0531	0.9577
SiteBOR Op	0.1622	0.6419	476.0072	0.2527	0.8006
SiteIST Op	0.4093	1.3408	477.2514	0.3052	0.7603
SiteMAD Op	1.5128	0.9705	474.7367	1.5589	0.1197
SiteZUR Op	1.3648	1.7987	471.6750	0.7588	0.4484
time_point	-0.7866	0.2550	120.2166	-3.0847	0.0025

Factors

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-0.5697	1.9532	468.9799	-0.2917	0.7706
Age	0.0042	0.0280	467.7053	0.1488	0.8818
SiteBOR Op	0.0047	0.6741	469.6542	0.0069	0.9945
SiteIST Op	-1.6596	1.4061	470.7658	-1.1803	0.2385
SiteMAD Op	0.0321	1.1034	469.2043	0.0291	0.9768
SiteZUR Op	-0.7560	1.8921	467.1587	-0.3996	0.6897
'Prior Spine Surgery'Yes	1.1856	0.5659	468.9138	2.0950	0.0367
'Osteoporosis / osteopenia'Yes	-0.7697	0.6760	469.5781	-1.1386	0.2555
essg_categoryidiopathic	-1.4238	0.6444	468.5079	-2.2094	0.0276
essg_categoryothers	0.8599	0.9344	470.9734	0.9203	0.3579
Non_instrumented_segments	-0.0589	0.0820	467.8339	-0.7177	0.4733
inc_preop	-0.1604	0.0311	468.6318	-5.1557	0.0000
preop	-0.1172	0.0280	468.8869	-4.1886	0.0000
time_point	-0.8195	0.2431	118.0427	-3.3705	0.0010

Global Tilt

Base Time point 6W. Global Tilt

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	1.1710	0.2682	388.1023	4.3660	0

time_point	1.8401	0.2502	118.4659	7.3535	0
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Preop & Inc preop variable: Global Tilt

Basic Demographics

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	1.0040	1.6053	449.0508	0.6254	0.5320
Age	-0.0088	0.0253	449.0952	-0.3481	0.7279
SiteBOR Op	1.1790	0.6115	450.2872	1.9281	0.0545
SiteIST Op	-0.2931	1.2490	453.5482	-0.2347	0.8146
SiteMAD Op	0.3266	0.9518	449.0497	0.3431	0.7317
SiteZUR Op	-0.3793	1.8107	446.1510	-0.2095	0.8342
time_point	1.8488	0.2499	115.8327	7.3990	0.0000

Factors

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	1.4793	1.9339	443.1666	0.7650	0.4447
Age	-0.0327	0.0285	440.0967	-1.1475	0.2518
SiteBOR Op	0.1771	0.6640	444.8914	0.2667	0.7898
SiteIST Op	-0.5985	1.2682	446.7036	-0.4719	0.6372
SiteMAD Op	0.3215	1.0280	443.3638	0.3127	0.7546
SiteZUR Op	0.4483	1.8281	440.3091	0.2452	0.8064
'Prior Spine Surgery'Yes	-1.3593	0.5733	443.2727	-2.3712	0.0182
'Osteoporosis / osteopenia'Yes	-0.8112	0.6619	443.2113	-1.2256	0.2210
essg_categoryidiopathic	1.1830	0.6289	441.9633	1.8811	0.0606
essg_categoryothers	0.1114	0.8899	446.5696	0.1252	0.9004
Non_instrumented_segments	0.0087	0.0807	441.3620	0.1078	0.9142
inc_preop	-0.0512	0.0322	440.8306	-1.5902	0.1125
preop	0.0295	0.0277	439.4493	1.0658	0.2871
time_point	1.8688	0.2427	114.4526	7.6992	0.0000

T1 Sagittal Tilt

Base Time point 6W. T1 Sagittal Tilt

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-0.3843	0.2066	293.6725	-1.8598	0.0639
time_point	0.3787	0.1806	78.2968	2.0964	0.0393

Preop & Inc preop variable: T1 Sagittal Tilt

Basic Demographics

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-1.8825	1.1346	357.0806	-1.6591	0.0980
Age	0.0311	0.0185	357.6923	1.6830	0.0932
SiteBOR Op	-0.7343	0.4661	356.8088	-1.5754	0.1160
SiteIST Op	0.3401	1.0387	359.3388	0.3274	0.7435
SiteMAD Op	-0.0300	0.6947	358.4791	-0.0432	0.9656
SiteZUR Op	-0.5401	1.2493	356.6345	-0.4323	0.6658
time_point	0.3754	0.1775	79.2814	2.1151	0.0376

Factors

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-3.9401	1.3493	352.5599	-2.9201	0.0037
Age	0.0112	0.0194	352.6583	0.5744	0.5660

SiteBOR Op	-1.2802	0.4694	351.7257	-2.7273	0.0067
SiteIST Op	-0.1888	1.0406	352.3608	-0.1815	0.8561
SiteMAD Op	0.2667	0.7036	350.4987	0.3790	0.7049
SiteZUR Op	0.3319	1.2081	352.0574	0.2747	0.7837
'Prior Spine Surgery'Yes	-1.3375	0.4115	352.4025	-3.2504	0.0013
'Osteoporosis / osteopenia'Yes	1.2880	0.5029	352.5887	2.5609	0.0109
essg_categoryidiopathic	0.8183	0.4392	351.7948	1.8632	0.0633
essg_categoryothers	1.0053	0.6203	352.2645	1.6206	0.1060
Non_instrumented_segments	0.2326	0.0517	351.5414	4.4984	0.0000
inc_preop	-0.3818	0.0634	350.8491	-6.0213	0.0000
preop	-0.2919	0.0576	351.5121	-5.0690	0.0000
time_point	0.3804	0.1475	84.6947	2.5789	0.0116

Thoracolumbar L2-T10

Base Time point 6W. Thoracolumbar L2-T10

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-0.1696	0.3691	339.1596	-0.4594	0.6462
time_point	0.2337	0.3395	87.8683	0.6883	0.4931

Preop & Inc preop variable: Thoracolumbar L2-T10

Basic Demographics

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-0.0379	2.1021	415.3267	-0.0180	0.9856
Age	0.0093	0.0336	416.3990	0.2777	0.7814
SiteBOR Op	-0.7185	0.8320	417.3045	-0.8636	0.3883
SiteIST Op	-3.9673	1.6655	419.7601	-2.3821	0.0177
SiteMAD Op	-1.0241	1.3255	417.6823	-0.7726	0.4402
SiteZUR Op	0.2494	2.4494	396.9441	0.1018	0.9190
time_point	0.2496	0.3322	86.2605	0.7511	0.4546

Factors

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-2.3433	2.5950	409.6703	-0.9030	0.3671
Age	0.0344	0.0349	410.7065	0.9862	0.3246
SiteBOR Op	-0.8557	0.8397	411.9529	-1.0190	0.3088
SiteIST Op	-3.3819	1.6711	412.9957	-2.0238	0.0436
SiteMAD Op	-1.0065	1.3858	412.5423	-0.7262	0.4681
SiteZUR Op	2.3525	2.4303	392.7371	0.9680	0.3337
'Prior Spine Surgery'Yes	-1.7460	0.7686	411.1077	-2.2717	0.0236
'Osteoporosis / osteopenia'Yes	-1.5077	0.8907	411.1485	-1.6927	0.0913
essg_categoryidiopathic	1.4836	0.8291	410.7587	1.7895	0.0743
essg_categoryothers	2.3064	1.2823	412.8717	1.7987	0.0728
Non_instrumented_segments	0.2380	0.1093	410.4087	2.1771	0.0300
inc_preop	-0.2143	0.0431	410.4037	-4.9692	0.0000
preop	-0.1400	0.0375	411.5073	-3.7301	0.0002
time_point	0.2568	0.3137	85.0735	0.8188	0.4152

RSA

Base Time point 6W. RSA

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	1.1198	0.2672	387.7606	4.1901	0
time_point	1.8368	0.2459	118.1716	7.4713	0

Preop & Inc preop variable: Global Tilt

Basic Demographics

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	2.0499	2.1980	363.2668	0.9326	0.3517
Age	-0.0200	0.0343	363.0546	-0.5837	0.5598
SiteBOR Op	1.9467	0.8292	361.6739	2.3478	0.0194
SiteIST Op	-1.1902	1.7384	349.5860	-0.6846	0.4940
SiteMAD Op	0.3914	1.2748	363.0560	0.3070	0.7590
SiteZUR Op	-0.4197	2.5100	362.9118	-0.1672	0.8673
time_point	1.5664	0.2681	139.7357	5.8437	0.0000

Factors

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	2.5289	2.5927	356.0102	0.9754	0.3300
Age	-0.0557	0.0379	357.6244	-1.4697	0.1425
SiteBOR Op	0.3289	0.8819	353.6966	0.3730	0.7094
SiteIST Op	-1.9670	1.7303	343.4098	-1.1368	0.2564
SiteMAD Op	0.4206	1.3553	355.7967	0.3103	0.7565
SiteZUR Op	1.1151	2.5023	355.7760	0.4456	0.6561
'Prior Spine Surgery'Yes	-1.8658	0.7675	355.2534	-2.4311	0.0155
'Osteoporosis / osteopenia'Yes	-1.2043	0.8869	355.7550	-1.3580	0.1753
essg_categoryidiopathic	2.0905	0.8404	356.3574	2.4874	0.0133
essg_categoryothers	-0.2082	1.2081	346.7590	-0.1724	0.8633
Non_instrumented_segments	0.0160	0.1085	356.4673	0.1477	0.8826
inc_preop	-0.0832	0.0430	357.2116	-1.9364	0.0536
preop	0.0446	0.0368	357.8030	1.2133	0.2258
time_point	1.6051	0.2601	134.8549	6.1718	0.0000

RPV

Base Time point 6W. RPV

Time evolution

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-1.2569	0.2577	402.9398	-4.8775	0
time_point	-0.9682	0.2262	113.2944	-4.2799	0

Preop & Inc preop variable: Sacral Slope

Basic Demographics

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	-2.2824	2.0215	381.7124	-1.1291	0.2596
Age	0.0295	0.0320	380.3451	0.9211	0.3576
SiteBOR Op	-2.8071	0.7762	377.7830	-3.6162	0.0003
SiteIST Op	0.5130	1.6236	362.7478	0.3160	0.7522
SiteMAD Op	-0.9291	1.1617	380.5950	-0.7998	0.4243
SiteZUR Op	0.0472	2.1462	384.4212	0.0220	0.9825
time_point	-0.6671	0.2424	139.3850	-2.7523	0.0067

Factors

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	3.7094	2.2493	363.0573	1.6491	0.1000
Age	0.0242	0.0280	359.6631	0.8651	0.3876
SiteBOR Op	-0.9874	0.6884	355.0881	-1.4343	0.1524
SiteIST Op	-0.3911	1.3856	341.6666	-0.2823	0.7779
SiteMAD Op	-0.7694	1.0133	355.1317	-0.7593	0.4482
SiteZUR Op	-2.1155	1.7984	361.6262	-1.1763	0.2402
'Prior Spine Surgery'Yes	0.2705	0.6067	355.1113	0.4459	0.6560
'Osteoporosis / osteopenia'Yes	1.4604	0.6977	359.9595	2.0931	0.0370
essg_categoryidiopathic	-0.0292	0.6496	355.3696	-0.0450	0.9641
essg_categoryothers	1.5033	0.9681	350.0812	1.5529	0.1214
Non_instrumented_segments	0.0904	0.0865	354.6753	1.0453	0.2966
inc_preop	-0.4623	0.0384	358.8284	-12.0351	0.0000
preop	-0.1477	0.0282	355.9043	-5.2327	0.0000
time_point	-0.7069	0.1883	146.7967	-3.7548	0.0002