LIV Iliac/L5

```
data_ %>%
  .[followup_2y ==TRUE] %>%
  .[Study=='Op'] %>%
  .[Site != 'ANK Op'] %>%
  .[`Vital status` == 'Alive'] %>%
  .[`st1. Date of Stage` %>% as.Date() < as.Date('2015-09-01')] ->
  data_
```

Initial Patients: 372

With Posterior Instrumented Fusion & Number of Posterior Instrumented Levels > 3: 321

```
      type   N
1: Iliac 142
2:    L5  34
3:    L4  38
```

Patients who end up intrumented until pelvis

```
revision <- read_excel(xls_path, sheet="Revision surgery") %>%
  as.data.table()

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

reint_iliac <- revision[post_intr_fusion=='Iliac', `Code of the patient`]

data_[`Code of the patient` %in% reint_iliac, `Code of the patient` %>% uniqueN, type]
```

```
      type V1
1:     L5  8
2: Iliac 12
3:     L4  1
```

UIV frequencies

```
     uiv  N
 1:  L1 17
 2:  L2  9
 3:  L3  4
 4: T10 59
 5: T11 15
 6: T12 18
```

```
 7:   T2 18
 8:   T3 16
 9:   T4 17
10:   T5  5
11:   T6  1
12:   T7  3
13:   T8 10
14:   T9 22

    Non_instrumented_segments  type   N
 1:                         1 Iliac 11
 2:                         2 Iliac  8
 3:                         3 Iliac  7
 4:                         4 Iliac  2
 5:                         6 Iliac  2
 6:                         7 Iliac  7
 7:                         8 Iliac 16
 8:                         9 Iliac 40
 9:                        10 Iliac 12
10:                        11 Iliac 17
11:                        12 Iliac 10
12:                        13 Iliac  6
13:                        14 Iliac  4
14:                         1   L4  4
15:                         2   L4  5
16:                         3   L4  5
17:                         4   L4  2
18:                         5   L4  1
19:                         6   L4  1
20:                         7   L4  2
21:                         8   L4  5
22:                         9   L4  9
23:                        10   L4  3
24:                        12   L4  1
25:                         1   L5  3
26:                         2   L5  3
27:                         3   L5  5
28:                         4   L5  1
29:                         7   L5  1
30:                         8   L5  1
31:                         9   L5 10
32:                        11   L5  1
33:                        12   L5  6
34:                        13   L5  3
    Non_instrumented_segments  type   N
```

P-valor ASA 1 Iliac vs L5

```
   treatment asa_1   N
1:     Iliac    23 142
2:        L5     8  34
3:        L4    16  38
```

P-values Treatment Iliac vs Treatment L5
```

[1] 0.4487

P-values Treatment Iliac vs Treatment L4

[1] 0.0013

P-values Treatment L5 vs Treatment L4

[1] 0.1559

**P-valor Prior Spine Surgery Yes Iliac vs L5**

```
   treatment prior_yes   N
1:     Iliac        64 142
2:        L5        10  34
3:        L4         6  38
```

P-values Treatment Iliac vs Treatment L5

[1] 0.1421

P-values Treatment Iliac vs Treatment L4

[1] 0.0019

P-values Treatment L5 vs Treatment L4

[1] 0.2695

Demographics

```
                             Name          all          Iliac
1                             Age 69.06 (14.72) 74.42 (10.06)
2                   Gender-Female   182 (0.85)  121 (85.21%)
3                     Gender-Male    32 (0.15)   21 (14.79%)
4         Prior Spine Surgery-No   134 (0.63)   78 (54.93%)
5        Prior Spine Surgery-Yes    80 (0.37)   64 (45.07%)
6        Height (cm)_First Visit 161.45 (8.98) 160.82 (8.91)
7        Weight (kgs)_First Visit   66.13 (12)   66.54 (12.1)
8               BMI_First Visit  25.41 (4.33)  25.71 (4.05)
9           ASA classification-1    47 (0.22)    23 (16.2%)
10          ASA classification-2   137 (0.64)    95 (66.9%)
11          ASA classification-3    30 (0.14)    24 (16.9%)
12  Tobacco use_First Visit-Current    38 (0.18)   25 (17.61%)
13     Tobacco use_First Visit-Ex    45 (0.21)   31 (21.83%)
14 Tobacco use_First Visit-Non-User   131 (0.61)   86 (60.56%)
15       ESSG Diagnosis-Congenital     5 (0.02)    3 (2.11%)
16      ESSG Diagnosis-Degenerative    87 (0.41)   76 (53.52%)
17      ESSG Diagnosis-Failed-back    16 (0.07)    11 (7.75%)
18       ESSG Diagnosis-Idiopathic    90 (0.42)   43 (30.28%)
```

19	ESSG Diagnosis-Neuromuscular	2 (0.01)	2 (1.41%)
20	ESSG Diagnosis-Other: spondylolisthesis	1 (0)	1 (0.7%)
21	ESSG Diagnosis-Post-traumatic	9 (0.04)	4 (2.82%)
22	ESSG Diagnosis-Scheuermann	1 (0)	1 (0.7%)
23	ESSG Diagnosis-Syndromic	3 (0.01)	1 (0.7%)

	L5	L4	Iliac vs L5 p_val	Iliac vs L4 p_val
1	63 (16.49)	54.42 (15.94)	0.0004	0.0000
2	29 (85.29%)	32 (84.21%)	1.0000	1.0000
3	5 (14.71%)	6 (15.79%)	1.0000	1.0000
4	24 (70.59%)	32 (84.21%)	0.1421	0.0019
5	10 (29.41%)	6 (15.79%)	0.1421	0.0019
6	160.97 (9.08)	164.18 (8.86)	0.9322	0.0426
7	65.94 (11.86)	64.76 (11.96)	0.7937	0.4209
8	25.6 (5.02)	24.12 (4.56)	0.9062	0.0570
9	8 (23.53%)	16 (42.11%)	0.4487	0.0013
10	23 (67.65%)	19 (50%)	1.0000	0.0835
11	3 (8.82%)	3 (7.89%)	0.3633	0.2605
12	6 (17.65%)	7 (18.42%)	1.0000	1.0000
13	5 (14.71%)	9 (23.68%)	0.4911	0.9805
14	23 (67.65%)	22 (57.89%)	0.5704	0.9109
15	2 (5.88%)	NA (NA%)	0.5394	0.8491
16	9 (26.47%)	2 (5.26%)	0.0082	0.0000
17	4 (11.76%)	1 (2.63%)	0.6805	0.4493
18	17 (50%)	30 (78.95%)	0.0480	0.0000
19	NA (NA%)	NA (NA%)	1.0000	1.0000
20	NA (NA%)	NA (NA%)	1.0000	1.0000
21	1 (2.94%)	4 (10.53%)	1.0000	0.1085
22	NA (NA%)	NA (NA%)	1.0000	1.0000
23	1 (2.94%)	1 (2.63%)	0.8378	0.8922

	L5 vs L4 p_val
1	0.0284
2	1.0000
3	1.0000
4	0.2695
5	0.2695
6	0.1340
7	0.6763
8	0.1984
9	0.1559
10	0.2016
11	1.0000
12	1.0000
13	0.5075
14	0.5422
15	0.4248
16	0.0301
17	0.2902
18	0.0199
19	NaN
20	NaN
21	0.4239
22	NaN
23	1.0000

Radiology

	Name	all	Iliac
1	Static Major curve Cobb angle	44.82 (22.32)	41.7 (20.88)
2	6W. Static Major curve Cobb angle	22.18 (16.64)	21.01 (16.76)
3	6M. Static Major curve Cobb angle	21.93 (15.53)	20.94 (15.14)
4	1Y. Static Major curve Cobb angle	22.02 (15.61)	21.44 (15.36)
5	2Y. Static Major curve Cobb angle	21.97 (16.56)	20.57 (15.98)
6	5Y. Static Major curve Cobb angle	22.12 (16.98)	19.15 (14.89)
7	Sagittal T2-T5	10.38 (7.79)	10.65 (7.92)
8	6W. Sagittal T2-T5	13.53 (9.1)	13.77 (9.65)
9	6M. Sagittal T2-T5	13.82 (9.7)	14.15 (10.25)
10	1Y. Sagittal T2-T5	14.11 (10.53)	14.8 (11.33)
11	2Y. Sagittal T2-T5	14.98 (10.67)	15.67 (11.25)
12	5Y. Sagittal T2-T5	15.03 (11.77)	16.79 (12.33)
13	Sagittal T5-T12	31.92 (18.18)	29.8 (16.85)
14	6W. Sagittal T5-T12	35.58 (13.87)	36.56 (13.61)
15	6M. Sagittal T5-T12	37.5 (14.84)	39.14 (14.22)
16	1Y. Sagittal T5-T12	38.06 (15.38)	39.36 (15.41)
17	2Y. Sagittal T5-T12	38.92 (17.48)	41.26 (17.5)
18	5Y. Sagittal T5-T12	40.76 (16.14)	42.79 (16.09)
19	Sagittal T2-T12	35.82 (18.88)	34.36 (17.3)
20	6W. Sagittal T2-T12	43.99 (15.57)	45.25 (15.36)
21	6M. Sagittal T2-T12	46.17 (16.08)	48.02 (16.04)
22	1Y. Sagittal T2-T12	46.39 (16.97)	48.66 (17.11)
23	2Y. Sagittal T2-T12	47.8 (17.27)	50.17 (17.05)
24	5Y. Sagittal T2-T12	49.53 (17.16)	53.17 (16.76)
25	Lordosis (top of L1-S1)	-38.52 (19.09)	-34.44 (18.4)
26	6W. Lordosis (top of L1-S1)	-50.51 (14.42)	-52.4 (14.58)
27	6M. Lordosis (top of L1-S1)	-50.08 (13.83)	-51.15 (13.3)
28	1Y. Lordosis (top of L1-S1)	-49.27 (13.74)	-49.59 (14.02)
29	2Y. Lordosis (top of L1-S1)	-50.04 (14.11)	-50.47 (13.78)
30	5Y. Lordosis (top of L1-S1)	-49.47 (14.48)	-50.97 (13.7)
31	Pelvic Incidence	55.08 (14.41)	58.09 (14.21)
32	6W. Pelvic Incidence	53.35 (13.65)	55.84 (12.81)
33	6M. Pelvic Incidence	53.52 (13.78)	56.16 (13.35)
34	1Y. Pelvic Incidence	54.01 (13.35)	56.46 (13.32)
35	2Y. Pelvic Incidence	54.78 (13.49)	57.56 (13.4)
36	5Y. Pelvic Incidence	54.97 (13.26)	57.82 (12.6)
37	Pelvic Tilt	25.37 (10.55)	28.54 (9.82)
38	6W. Pelvic Tilt	19.56 (9.16)	20.41 (9.01)
39	6M. Pelvic Tilt	21.64 (9.1)	23.65 (8.49)
40	1Y. Pelvic Tilt	22.38 (9.33)	24.15 (8.82)
41	2Y. Pelvic Tilt	21.96 (9.02)	23.87 (8.66)
42	5Y. Pelvic Tilt	23.3 (9.08)	25.05 (8.49)
43	Sacral Slope	29.7 (11.54)	29.54 (11.95)
44	6W. Sacral Slope	33.78 (10.69)	35.43 (10.44)
45	6M. Sacral Slope	31.87 (10.29)	32.5 (10.29)
46	1Y. Sacral Slope	31.63 (9.23)	32.3 (9.22)
47	2Y. Sacral Slope	32.82 (10.36)	33.68 (10.53)
48	5Y. Sacral Slope	31.67 (9.96)	32.77 (9.42)
49	RLL	-24.64 (18.23)	-30.6 (16.62)
50	6W. RLL	-11.57 (11.8)	-11.22 (12.19)
51	6M. RLL	-12.03 (11.16)	-12.67 (10.82)

52	1Y. RLL	-13.22 (12.41)	-14.41 (12.53)
53	2Y. RLL	-12.86 (12.18)	-14.12 (11.74)
54	5Y. RLL	-13.61 (12.75)	-13.88 (11.72)
55	Global Tilt	31.08 (16.93)	36.63 (15.74)
56	6W. Global Tilt	20.73 (11.57)	21.83 (11.19)
57	6M. Global Tilt	22.4 (11.93)	25.08 (11.54)
58	1Y. Global Tilt	23.87 (12.92)	26.71 (12.78)
59	2Y. Global Tilt	24.28 (12.74)	27.37 (12.34)
60	5Y. Global Tilt	26.61 (14.5)	29.65 (14.31)
61	T1 Sagittal Tilt	-1.14 (6.16)	0.18 (6.45)
62	6W. T1 Sagittal Tilt	-3.58 (3.53)	-3.57 (3.6)
63	6M. T1 Sagittal Tilt	-4.35 (4.04)	-4.26 (4.34)
64	1Y. T1 Sagittal Tilt	-3.97 (5.08)	-3.55 (5.53)
65	2Y. T1 Sagittal Tilt	-3.37 (4.21)	-2.79 (4.54)
66	5Y. T1 Sagittal Tilt	-2.72 (5.19)	-2.02 (5.82)
67	Thoracolumbar L2-T10	13.83 (23.14)	8.75 (22.51)
68	6W. Thoracolumbar L2-T10	4.96 (11.82)	5.76 (12.06)
69	6M. Thoracolumbar L2-T10	7.07 (11.38)	7.97 (11.68)
70	1Y. Thoracolumbar L2-T10	7.36 (11.91)	8.08 (12.42)
71	2Y. Thoracolumbar L2-T10	6.96 (12.29)	7.95 (13.05)
72	5Y. Thoracolumbar L2-T10	7.42 (13.26)	7.61 (14.25)
73	RSA	19.64 (14.05)	23.73 (13.51)
74	6W. RSA	10.12 (8.93)	10.03 (8.75)
75	6M. RSA	11.68 (8.78)	13.13 (8.5)
76	1Y. RSA	12.91 (9.51)	14.58 (9.4)
77	2Y. RSA	12.97 (9.94)	14.74 (9.72)
78	5Y. RSA	15.23 (11.72)	16.9 (11.55)
79	RPV	-11.8 (8.37)	-13.73 (8.16)
80	6W. RPV	-6.69 (7.16)	-6.52 (7.27)
81	6M. RPV	-8.71 (6.81)	-9.64 (6.55)
82	1Y. RPV	-9.24 (6.57)	-10.01 (6.14)
83	2Y. RPV	-8.5 (6.94)	-9.28 (6.81)
84	5Y. RPV	-9.76 (6.84)	-10.34 (6.36)

	L5	L4	Iliac vs L5 p_val	Iliac vs L4 p_val
1	49.29 (24.35)	52.49 (23.69)	0.1010	0.0135
2	24.89 (19.62)	24.58 (13.3)	0.3530	0.1985
3	25.45 (19.06)	23.02 (14.2)	0.2830	0.4526
4	26.42 (18.36)	20.57 (13.95)	0.2075	0.7579
5	27.76 (21.39)	22.62 (13.76)	0.1390	0.4889
6	27.34 (22.6)	27.24 (15.58)	0.1398	0.0529
7	9.07 (7.28)	10.56 (7.83)	0.2696	0.9469
8	12.38 (7.02)	13.63 (8.77)	0.3533	0.9303
9	11.85 (8.22)	14.06 (8.73)	0.2204	0.9601
10	11.77 (7.15)	13.45 (9.62)	0.0817	0.4895
11	11.94 (8.28)	14.92 (10.06)	0.0547	0.7094
12	9.05 (6.59)	14.74 (12.23)	0.0004	0.5149
13	33.57 (16.93)	38.47 (22.49)	0.2494	0.0337
14	34 (15.2)	33.31 (13.6)	0.3874	0.2088
15	34.33 (15.02)	34.09 (16.24)	0.1424	0.0930
16	36.1 (16.54)	34.94 (14.05)	0.3465	0.1175
17	33.85 (18.3)	34.48 (15.37)	0.0628	0.0314
18	40.39 (16.71)	33.93 (14.47)	0.5637	0.0243
19	35.9 (18.28)	41.3 (24.08)	0.6579	0.1069
20	40.59 (16.13)	42.34 (15.67)	0.1456	0.3246

21	42.34 (15.03)	42.46 (16.26)	0.0909	0.0712
22	41.89 (14.51)	41.83 (17.13)	0.0367	0.0444
23	42.39 (15.45)	43.66 (18.1)	0.0253	0.0665
24	43.25 (15.56)	42.91 (17.02)	0.0187	0.0234
25	-43.74 (15.6)	-49.27 (19.66)	0.0039	0.0001
26	-45.15 (12.94)	-48.3 (13.89)	0.0068	0.1248
27	-45.17 (14.72)	-50.15 (14.51)	0.0511	0.7069
28	-46.88 (12.7)	-50.32 (13.74)	0.2963	0.7858
29	-46.87 (13.09)	-51.17 (16.07)	0.1936	0.8173
30	-45.32 (15.27)	-48.45 (16.16)	0.1373	0.5291
31	51.31 (13.5)	46.97 (12.17)	0.0120	0.0000
32	51.65 (15.41)	45.54 (12.06)	0.1555	0.0000
33	50.51 (14.07)	46.51 (12.36)	0.0592	0.0001
34	53.17 (12.6)	45.81 (10.81)	0.1987	0.0000
35	52.55 (11.7)	46.64 (11.81)	0.0497	0.0000
36	53.35 (12.66)	46.43 (12.81)	0.1632	0.0014
37	21.79 (9.45)	16.48 (7.98)	0.0005	0.0000
38	21.9 (9.14)	14.21 (7.85)	0.4044	0.0001
39	21.74 (8.9)	14.48 (7.82)	0.3054	0.0000
40	23.22 (8.53)	15.06 (8.52)	0.5865	0.0000
41	22.72 (7.36)	14.43 (7.78)	0.4681	0.0000
42	24.39 (7.42)	15.85 (9.37)	0.7301	0.0005
43	29.49 (11)	30.49 (10.59)	0.9813	0.6395
44	29.72 (10.38)	31.34 (10.74)	0.0067	0.0460
45	28.77 (10.92)	32.01 (9.64)	0.1058	0.7889
46	29.94 (9.43)	30.76 (9.06)	0.2122	0.3861
47	29.86 (9.13)	32.23 (10.5)	0.0555	0.4809
48	28.96 (10.22)	30.58 (11.36)	0.1363	0.4356
49	-17.08 (13.24)	-8.86 (16.24)	0.0000	0.0000
50	-15.87 (10.97)	-8.94 (10.15)	0.0374	0.2557
51	-14.78 (12.21)	-7.69 (10.66)	0.4023	0.0153
52	-15.08 (11.18)	-7.08 (11.49)	0.7680	0.0021
53	-14.71 (11.32)	-6.74 (12.9)	0.8030	0.0041
54	-16.76 (13.66)	-9.34 (14.76)	0.3882	0.2158
55	24.04 (13.76)	16.41 (12.45)	0.0000	0.0000
56	24.17 (12.78)	13.45 (8.81)	0.3385	0.0000
57	22.76 (10.88)	12.68 (8.8)	0.3247	0.0000
58	24.39 (10.33)	13.04 (9.71)	0.2921	0.0000
59	24.28 (9.7)	12.76 (9.7)	0.1561	0.0000
60	28.01 (11.04)	14.2 (12.12)	0.5794	0.0000
61	-3.24 (5.28)	-4.24 (3.8)	0.0020	0.0000
62	-2.87 (3.97)	-4.27 (2.72)	0.3641	0.2120
63	-3.66 (3.5)	-5.17 (3.19)	0.4415	0.1655
64	-3.8 (4.19)	-5.73 (3.5)	0.7859	0.0069
65	-3.69 (3.27)	-5.22 (3)	0.2324	0.0005
66	-2.63 (3.63)	-5.36 (3.02)	0.5612	0.0010
67	18.09 (21.86)	29.51 (18.87)	0.0325	0.0000
68	4.77 (11.33)	2.07 (11.16)	0.6642	0.0927
69	7.81 (9.7)	3.18 (10.76)	0.9418	0.0253
70	6.4 (11.63)	5.52 (10.18)	0.4908	0.2208
71	6.42 (9.39)	3.81 (11.24)	0.4770	0.0717
72	9.17 (12.04)	4.92 (10.8)	0.6198	0.3688
73	14.41 (11)	8.86 (11.21)	0.0001	0.0000
74	14.38 (8.6)	6.59 (8.49)	0.0123	0.0364

```
75    13.4 (7.59)     5.35 (7.87)        0.8661          0.0000
76   13.77 (7.54)     6.05 (8.61)        0.6143          0.0000
77   14.36 (6.88)     5.22 (9.47)        0.8064          0.0000
78    17.4 (8.88)    6.92 (11.81)        0.8319          0.0021
79   -9.78 (7.64)     -6.22 (6.9)        0.0100          0.0000
80   -9.75 (5.96)    -4.53 (6.97)        0.0097          0.1382
81  -10.03 (6.91)    -4.43 (6.08)        0.7816          0.0000
82   -10.42 (6.4)    -5.27 (6.95)        0.7459          0.0007
83  -10.14 (5.75)    -4.28 (6.89)        0.4881          0.0004
84  -11.52 (6.04)    -5.82 (8.06)        0.4449          0.0286
     L5 vs L4 p_val
1           0.5740
2           0.9455
3           0.5991
4           0.1846
5           0.3225
6           0.9871
7           0.4112
8           0.5165
9           0.3092
10          0.4366
11          0.2103
12          0.0771
13          0.3014
14          0.8458
15          0.9518
16          0.7703
17          0.8874
18          0.1929
19          0.2891
20          0.6532
21          0.9771
22          0.9875
23          0.7678
24          0.9485
25          0.1923
26          0.3328
27          0.1752
28          0.2942
29          0.2461
30          0.5280
31          0.1603
32          0.0734
33          0.2377
34          0.0138
35          0.0511
36          0.0902
37          0.0132
38          0.0004
39          0.0012
40          0.0002
41          0.0001
42          0.0027
43          0.6992
```

```
44          0.5265
45          0.2182
46          0.7223
47          0.3418
48          0.6348
49          0.0219
50          0.0084
51          0.0177
52          0.0056
53          0.0113
54          0.1035
55          0.0172
56          0.0002
57          0.0002
58          0.0000
59          0.0000
60          0.0005
61          0.3662
62          0.1003
63          0.0831
64          0.0563
65          0.0640
66          0.0126
67          0.0232
68          0.3301
69          0.0875
70          0.7542
71          0.3221
72          0.2417
73          0.0393
74          0.0003
75          0.0001
76          0.0003
77          0.0001
78          0.0029
79          0.0440
80          0.0013
81          0.0013
82          0.0026
83          0.0005
84          0.0152
```

ID	Preop vs 6w	Preop vs 2y	Preop vs 5y	6w vs 2y
1: Static Major curve Cobb angle	0.0000	0.0000	0.0000	0.9061
2: Sagittal T2-T5	0.0002	0.0000	0.0002	0.1551
3: Sagittal T5-T12	0.0216	0.0001	0.0000	0.0395
4: Sagittal T2-T12	0.0000	0.0000	0.0000	0.0244
5: Lordosis (top of L1-S1)	0.0000	0.0000	0.0000	0.7483
6: Pelvic Incidence	0.2078	0.8303	0.9470	0.2979
7: Pelvic Tilt	0.0000	0.0006	0.0654	0.0093
8: Sacral Slope	0.0002	0.0047	0.1085	0.3668
9: RLL	0.0000	0.0000	0.0000	0.2886
10: Global Tilt	0.0000	0.0000	0.0134	0.0045
11: T1 Sagittal Tilt	0.0000	0.0000	0.0150	0.5955

12:	Thoracolumbar L2-T10	0.0000	0.0002	0.0017	0.1052
13:	RSA	0.0000	0.0000	0.0029	0.0033
14:	RPV	0.0000	0.0000	0.0188	0.0117

	2y vs 5y	6w vs 5y	Preop vs 6w-Iliac	Preop vs 2y-Iliac	Preop vs 5y-Iliac
1:	0.9451	0.9742	0.0000	0.0000	0.0000
2:	0.9702	0.2454	0.0038	0.0001	0.0002
3:	0.3581	0.0047	0.0003	0.0000	0.0000
4:	0.4036	0.0052	0.0000	0.0000	0.0000
5:	0.7390	0.5427	0.0000	0.0000	0.0000
6:	0.9032	0.3013	0.1666	0.7518	0.8862
7:	0.2185	0.0006	0.0000	0.0001	0.0078
8:	0.3435	0.0800	0.0000	0.0030	0.0324
9:	0.6162	0.1619	0.0000	0.0000	0.0000
10:	0.1599	0.0003	0.0000	0.0000	0.0014
11:	0.2662	0.1199	0.0000	0.0000	0.0130
12:	0.7642	0.1035	0.1672	0.7197	0.6529
13:	0.0905	0.0001	0.0000	0.0000	0.0002
14:	0.1262	0.0002	0.0000	0.0000	0.0010

	6w vs 2y-Iliac	2y vs 5y-Iliac	6w vs 5y-Iliac	Preop vs 6w-L5	Preop vs 2y-L5
1:	0.8396	0.5482	0.4285	0.0001	0.0009
2:	0.1521	0.5315	0.0761	0.0653	0.1625
3:	0.0179	0.5370	0.0063	0.9140	0.9508
4:	0.0166	0.2363	0.0012	0.2723	0.1386
5:	0.2746	0.8078	0.4843	0.6880	0.3898
6:	0.2953	0.8902	0.2861	0.9249	0.6989
7:	0.0019	0.3543	0.0003	0.9614	0.6630
8:	0.1817	0.5355	0.0646	0.9321	0.8848
9:	0.0528	0.8916	0.1269	0.6862	0.4474
10:	0.0002	0.2599	0.0001	0.9664	0.9353
11:	0.1333	0.3315	0.0418	0.7456	0.6815
12:	0.1648	0.8683	0.3540	0.0032	0.0079
13:	0.0001	0.1849	0.0000	0.9924	0.9825
14:	0.0018	0.2744	0.0001	0.9876	0.8326

	Preop vs 5y-L5	6w vs 2y-L5	2y vs 5y-L5	6w vs 5y-L5	Preop vs 6w-L4
1:	0.0017	0.6289	0.9512	0.7017	0.0000
2:	0.9920	0.8314	0.1900	0.0919	0.1195
3:	0.1510	0.9739	0.2042	0.1663	0.2394
4:	0.1237	0.6647	0.8519	0.5582	0.8271
5:	0.7138	0.6056	0.7083	0.9673	0.8091
6:	0.5758	0.7955	0.8216	0.6614	0.6167
7:	0.2623	0.6979	0.4351	0.2787	0.2240
8:	0.8554	0.9534	0.7485	0.7927	0.7356
9:	0.9330	0.6839	0.5776	0.8036	0.9798
10:	0.2443	0.9707	0.2250	0.2478	0.2447
11:	0.6147	0.3809	0.2972	0.8243	0.9735
12:	0.0591	0.5396	0.3921	0.1906	0.0000
13:	0.2729	0.9890	0.1992	0.2240	0.3315
14:	0.3554	0.7968	0.4221	0.3000	0.3021

	Preop vs 2y-L4	Preop vs 5y-L4	6w vs 2y-L4	2y vs 5y-L4	6w vs 5y-L4
1:	0.0000	0.0000	0.5684	0.2976	0.5366
2:	0.0470	0.1768	0.5695	0.9577	0.7205
3:	0.3832	0.3596	0.7383	0.8952	0.8774
4:	0.6397	0.7699	0.7448	0.8792	0.9016
5:	0.6544	0.8665	0.4275	0.5515	0.9733

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 6:        0.9073         0.8783         0.7028         0.9534         0.8013
 7:        0.2781         0.8018         0.9038         0.5711         0.5093
 8:        0.4890         0.9776         0.7253         0.5981         0.8083
 9:        0.5438         0.9094         0.4334         0.5168         0.9137
10:        0.1738         0.5198         0.7586         0.6545         0.8091
11:        0.2329         0.2316         0.1745         0.8754         0.1905
12:        0.0000         0.0000         0.5226         0.7194         0.3576
13:        0.1452         0.5493         0.5301         0.5891         0.9139
14:        0.2409         0.8502         0.8802         0.4816         0.5537
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Quality of Life

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                                   Name          all          Iliac
1                       ODI - Score (%) 41.79 (18.57)  45.4 (16.99)
2                   6M. ODI - Score (%) 31.09 (17.56) 32.45 (18.11)
3                   1Y. ODI - Score (%) 29.23 (17.47) 31.25 (17.15)
4                   2Y. ODI - Score (%) 30.68 (21.61) 33.73 (21.78)
5                   5Y. ODI - Score (%) 32.92 (21.78) 36.34 (23.02)
6          SRS22 - Function / Activity   2.87 (0.76)   2.76 (0.69)
7      6M. SRS22 - Function / Activity   3.07 (0.75)   3.05 (0.69)
8      1Y. SRS22 - Function / Activity    3.2 (0.85)    3.1 (0.77)
9      2Y. SRS22 - Function / Activity   3.31 (0.87)   3.18 (0.83)
10     5Y. SRS22 - Function / Activity   3.31 (0.89)   3.21 (0.89)
11                        SRS22 - Pain   2.42 (0.89)    2.32 (0.8)
12                    6M. SRS22 - Pain   3.37 (0.87)   3.39 (0.86)
13                    1Y. SRS22 - Pain   3.47 (0.98)   3.41 (0.97)
14                    2Y. SRS22 - Pain    3.4 (1.11)   3.34 (1.13)
15                    5Y. SRS22 - Pain   3.17 (1.15)   3.15 (1.19)
16      SRS22 - Self image / Appearance   2.21 (0.71)   2.09 (0.64)
17  6M. SRS22 - Self image / Appearance   3.42 (0.82)   3.34 (0.82)
18  1Y. SRS22 - Self image / Appearance    3.45 (0.8)   3.36 (0.75)
19  2Y. SRS22 - Self image / Appearance   3.36 (0.95)   3.22 (0.93)
20  5Y. SRS22 - Self image / Appearance   3.25 (0.98)   3.12 (0.99)
21               SRS22 - Mental health   3.04 (0.89)   2.95 (0.91)
22           6M. SRS22 - Mental health   3.49 (0.86)   3.48 (0.88)
23           1Y. SRS22 - Mental health   3.55 (0.87)   3.51 (0.86)
24           2Y. SRS22 - Mental health   3.43 (0.97)   3.36 (1.01)
25           5Y. SRS22 - Mental health   3.43 (0.96)   3.35 (0.99)
26          SRS22 - SRS Subtotal score   2.64 (0.66)   2.54 (0.59)
27      6M. SRS22 - SRS Subtotal score   3.34 (0.66)   3.31 (0.65)
28      1Y. SRS22 - SRS Subtotal score   3.42 (0.73)   3.36 (0.69)
29      2Y. SRS22 - SRS Subtotal score   3.37 (0.85)   3.27 (0.85)
30      5Y. SRS22 - SRS Subtotal score   3.29 (0.87)   3.21 (0.89)
31   SRS22 - Satisfaction with management   2.99 (1.11)   2.81 (1.03)
32 6M. SRS22 - Satisfaction with management   4.27 (0.78)   4.22 (0.81)
33 1Y. SRS22 - Satisfaction with management    4.2 (0.91)   4.16 (0.87)
34 2Y. SRS22 - Satisfaction with management   4.13 (0.97)   4.09 (1.03)
35 5Y. SRS22 - Satisfaction with management    3.9 (1.03)    3.8 (1.09)
36                         SF36 - PCS  34.69 (8.45)  33.25 (7.42)
37                     6M. SF36 - PCS  38.96 (8.11)  38.18 (8.07)
38                     1Y. SF36 - PCS  40.22 (9.27)  39.03 (8.39)
39                     2Y. SF36 - PCS  40.82 (9.65)  39.48 (9.32)
40                     5Y. SF36 - PCS   39.2 (10.56) 37.57 (10.96)
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11

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41                     SF36 - MCS 41.56 (11.95) 40.86 (11.79)
42                  6M. SF36 - MCS 46.57 (12.03)  46.36 (12.1)
43                  1Y. SF36 - MCS 46.84 (12.34) 45.95 (12.56)
44                  2Y. SF36 - MCS  46.56 (12.1) 45.27 (12.27)
45                  5Y. SF36 - MCS 46.48 (11.93) 45.06 (12.33)
           L5           L4 Iliac vs L5 p_val Iliac vs L4 p_val
1  41.76 (18.74) 28.54 (18.42)        0.3138           0.0000
2  29.21 (16.67)  27.57 (15.9)        0.3649           0.1237
3  31.43 (17.85) 19.89 (15.65)        0.9591           0.0004
4  28.76 (21.58) 21.76 (18.72)        0.2431           0.0014
5  30.35 (17.28) 24.13 (18.65)        0.1499           0.0039
6   2.83 (0.74)    3.3 (0.91)         0.6551           0.0017
7   3.04 (0.89)   3.19 (0.88)         0.9530           0.4004
8   3.07 (0.96)   3.66 (0.95)         0.8484           0.0025
9   3.34 (0.85)   3.73 (0.93)         0.3548           0.0016
10  3.34 (0.72)   3.58 (0.96)         0.4592           0.0638
11  2.29 (0.92)   2.87 (1.05)         0.8548           0.0052
12   3.3 (0.93)   3.36 (0.87)         0.6539           0.8668
13  3.34 (1.04)   3.79 (0.97)         0.7201           0.0472
14  3.25 (1.05)   3.72 (1.03)         0.6653           0.0536
15  3.01 (1.05)    3.4 (1.09)         0.5792           0.2703
16  2.28 (0.71)   2.59 (0.85)         0.1727           0.0018
17   3.5 (0.93)   3.68 (0.71)         0.4294           0.0180
18  3.42 (0.96)    3.8 (0.75)         0.7377           0.0029
19  3.48 (0.95)   3.76 (0.9)          0.1801           0.0020
20  3.27 (0.97)   3.64 (0.88)         0.4836           0.0079
21   3.2 (0.87)   3.21 (0.83)         0.1527           0.1072
22   3.5 (0.91)    3.5 (0.8)          0.8963           0.9050
23  3.51 (0.97)   3.71 (0.79)         0.9830           0.2047
24   3.56 (0.9)   3.58 (0.88)         0.2884           0.1979
25  3.45 (0.82)   3.66 (0.94)         0.5693           0.1094
26  2.66 (0.68)      3 (0.79)         0.3300           0.0020
27  3.33 (0.74)   3.43 (0.67)         0.9054           0.3562
28  3.34 (0.82)   3.74 (0.74)         0.8995           0.0078
29  3.41 (0.81)    3.7 (0.82)         0.4092           0.0065
30  3.27 (0.79)   3.57 (0.87)         0.7371           0.0475
31  3.18 (1.19)   3.43 (1.19)         0.2355           0.0925
32  4.22 (0.91)   4.46 (0.46)         0.9893           0.0290
33  4.13 (1.09)   4.43 (0.85)         0.8909           0.1139
34  3.98 (0.94)   4.41 (0.72)         0.5984           0.0362
35  3.98 (0.95)   4.15 (0.86)         0.3970           0.0726
36  34.47 (9.05)   40.21 (9.4)        0.4766           0.0001
37  38.22 (7.78) 42.53 (7.82)         0.9811           0.0060
38 38.87 (10.08)  45.76 (9.84)        0.9346           0.0006
39     41 (8.93) 45.26 (10.23)        0.3905           0.0028
40  40.17 (8.79)  43.72 (9.41)        0.2105           0.0039
41 44.65 (12.76) 41.38 (11.67)        0.1275           0.8096
42 46.58 (12.53) 47.37 (11.65)        0.9325           0.6579
43 46.55 (13.63)  50.35 (9.83)        0.8283           0.0315
44 49.29 (12.92) 48.61 (10.27)        0.1135           0.0959
45 47.91 (11.52) 49.95 (10.32)        0.2740           0.0344
   L5 vs L4 p_val
1          0.0041
2          0.6931
```

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3          0.0079
4          0.1525
5          0.1974
6          0.0196
7          0.5186
8          0.0153
9          0.0692
10         0.2734
11         0.0171
12         0.7958
13         0.0782
14         0.0644
15         0.1761
16         0.1041
17         0.3987
18         0.0832
19         0.2205
20         0.1402
21         0.9633
22         0.9765
23         0.3680
24         0.9290
25         0.3631
26         0.0630
27         0.5873
28         0.0430
29         0.1445
30         0.1675
31         0.5650
32         0.2410
33         0.2390
34         0.0467
35         0.4955
36         0.0114
37         0.0326
38         0.0072
39         0.0653
40         0.1502
41         0.2703
42         0.7971
43         0.2102
44         0.8107
45         0.4931
```

	ID	Preop vs 6w	Preop vs 2y	Preop vs 5y
1:	Static Major curve Cobb angle	0.0000	0.0000	0.0000
2:	Sagittal T2-T5	0.0002	0.0000	0.0002
3:	Sagittal T5-T12	0.0216	0.0001	0.0000
4:	Sagittal T2-T12	0.0000	0.0000	0.0000
5:	Lordosis (top of L1-S1)	0.0000	0.0000	0.0000
6:	Pelvic Incidence	0.2078	0.8303	0.9470
7:	Pelvic Tilt	0.0000	0.0006	0.0654
8:	Sacral Slope	0.0002	0.0047	0.1085
9:	RLL	0.0000	0.0000	0.0000

10:	Global Tilt	0.0000	0.0000	0.0134
11:	T1 Sagittal Tilt	0.0000	0.0000	0.0150
12:	Thoracolumbar L2-T10	0.0000	0.0002	0.0017
13:	RSA	0.0000	0.0000	0.0029
14:	RPV	0.0000	0.0000	0.0188
15:	ODI - Score (%)	0.0000	0.0000	0.0001
16:	SRS22 - Function / Activity	0.0069	0.0000	0.0000
17:	SRS22 - Pain	0.0000	0.0000	0.0000
18:	SRS22 - Self image / Appearance	0.0000	0.0000	0.0000
19:	SRS22 - Mental health	0.0000	0.0000	0.0001
20:	SRS22 - SRS Subtotal score	0.0000	0.0000	0.0000
21:	SRS22 - Satisfaction with management	0.0000	0.0000	0.0000
22:	SF36 - PCS	0.0000	0.0000	0.0000
23:	SF36 - MCS	0.0000	0.0000	0.0001

ID Preop vs 6w Preop vs 2y Preop vs 5y

ID	6w vs 2y	2y vs 5y	6w vs 5y	Preop vs 6w-Iliac	Preop vs 2y-Iliac
1:	0.9061	0.9451	0.9742	0.0000	0.0000
2:	0.1551	0.9702	0.2454	0.0038	0.0001
3:	0.0395	0.3581	0.0047	0.0003	0.0000
4:	0.0244	0.4036	0.0052	0.0000	0.0000
5:	0.7483	0.7390	0.5427	0.0000	0.0000
6:	0.2979	0.9032	0.3013	0.1666	0.7518
7:	0.0093	0.2185	0.0006	0.0000	0.0001
8:	0.3668	0.3435	0.0800	0.0000	0.0030
9:	0.2886	0.6162	0.1619	0.0000	0.0000
10:	0.0045	0.1599	0.0003	0.0000	0.0000
11:	0.5955	0.2662	0.1199	0.0000	0.0000
12:	0.1052	0.7642	0.1035	0.1672	0.7197
13:	0.0033	0.0905	0.0001	0.0000	0.0000
14:	0.0117	0.1262	0.0002	0.0000	0.0000
15:	0.8342	0.3339	0.3979	0.0000	0.0000
16:	0.0043	0.9705	0.0095	0.0007	0.0000
17:	0.7930	0.0623	0.0746	0.0000	0.0000
18:	0.4668	0.2807	0.0736	0.0000	0.0000
19:	0.5719	0.9399	0.5420	0.0000	0.0005
20:	0.6431	0.3533	0.5567	0.0000	0.0000
21:	0.1304	0.0321	0.0003	0.0000	0.0000
22:	0.0398	0.1367	0.8208	0.0000	0.0000
23:	0.9908	0.9483	0.9402	0.0002	0.0031

6w vs 2y 2y vs 5y 6w vs 5y Preop vs 6w-Iliac Preop vs 2y-Iliac

ID	Preop vs 5y-Iliac	6w vs 2y-Iliac	2y vs 5y-Iliac	6w vs 5y-Iliac
1:	0.0000	0.8396	0.5482	0.4285
2:	0.0002	0.1521	0.5315	0.0761
3:	0.0000	0.0179	0.5370	0.0063
4:	0.0000	0.0166	0.2363	0.0012
5:	0.0000	0.2746	0.8078	0.4843
6:	0.8862	0.2953	0.8902	0.2861
7:	0.0078	0.0019	0.3543	0.0003
8:	0.0324	0.1817	0.5355	0.0646
9:	0.0000	0.0528	0.8916	0.1269
10:	0.0014	0.0002	0.2599	0.0001
11:	0.0130	0.1333	0.3315	0.0418
12:	0.6529	0.1648	0.8683	0.3540
13:	0.0002	0.0001	0.1849	0.0000

	col1	col2	col3	col4
14:	0.0010	0.0018	0.2744	0.0001
15:	0.0011	0.6049	0.3827	0.1666
16:	0.0000	0.1647	0.7776	0.1314
17:	0.0000	0.6948	0.2078	0.0857
18:	0.0000	0.2608	0.4514	0.0754
19:	0.0019	0.3182	0.8975	0.2872
20:	0.0000	0.6527	0.5751	0.3123
21:	0.0000	0.2400	0.0459	0.0015
22:	0.0009	0.2331	0.1664	0.6447
23:	0.0090	0.4730	0.9005	0.4284

Preop vs 5y-Iliac 6w vs 2y-Iliac 2y vs 5y-Iliac 6w vs 5y-Iliac

	Preop vs 6w-L5	Preop vs 2y-L5	Preop vs 5y-L5	6w vs 2y-L5	2y vs 5y-L5
1:	0.0001	0.0009	0.0017	0.6289	0.9512
2:	0.0653	0.1625	0.9920	0.8314	0.1900
3:	0.9140	0.9508	0.1510	0.9739	0.2042
4:	0.2723	0.1386	0.1237	0.6647	0.8519
5:	0.6880	0.3898	0.7138	0.6056	0.7083
6:	0.9249	0.6989	0.5758	0.7955	0.8216
7:	0.9614	0.6630	0.2623	0.6979	0.4351
8:	0.9321	0.8848	0.8554	0.9534	0.7485
9:	0.6862	0.4474	0.9330	0.6839	0.5776
10:	0.9664	0.9353	0.2443	0.9707	0.2250
11:	0.7456	0.6815	0.6147	0.3809	0.2972
12:	0.0032	0.0079	0.0591	0.5396	0.3921
13:	0.9924	0.9825	0.2729	0.9890	0.1992
14:	0.9876	0.8326	0.3554	0.7968	0.4221
15:	0.0076	0.0112	0.0185	0.9261	0.7546
16:	0.3213	0.0126	0.0091	0.1971	0.9907
17:	0.0001	0.0003	0.0073	0.8400	0.4017
18:	0.0000	0.0000	0.0001	0.9396	0.4207
19:	0.1967	0.1109	0.2562	0.8156	0.6359
20:	0.0006	0.0002	0.0028	0.7107	0.5047
21:	0.0035	0.0185	0.0209	0.3479	0.9924
22:	0.0846	0.0044	0.0179	0.1949	0.7219
23:	0.5507	0.1472	0.3069	0.4058	0.6685

Preop vs 6w-L5 Preop vs 2y-L5 Preop vs 5y-L5 6w vs 2y-L5 2y vs 5y-L5

	6w vs 5y-L5	Preop vs 6w-L4	Preop vs 2y-L4	Preop vs 5y-L4	6w vs 2y-L4
1:	0.7017	0.0000	0.0000	0.0000	0.5684
2:	0.0919	0.1195	0.0470	0.1768	0.5695
3:	0.1663	0.2394	0.3832	0.3596	0.7383
4:	0.5582	0.8271	0.6397	0.7699	0.7448
5:	0.9673	0.8091	0.6544	0.8665	0.4275
6:	0.6614	0.6167	0.9073	0.8783	0.7028
7:	0.2787	0.2240	0.2781	0.8018	0.9038
8:	0.7927	0.7356	0.4890	0.9776	0.7253
9:	0.8036	0.9798	0.5438	0.9094	0.4334
10:	0.2478	0.2447	0.1738	0.5198	0.7586
11:	0.8243	0.9735	0.2329	0.2316	0.1745
12:	0.1906	0.0000	0.0000	0.0000	0.5226
13:	0.2240	0.3315	0.1452	0.5493	0.5301
14:	0.3000	0.3021	0.2409	0.8502	0.8802
15:	0.8077	0.8115	0.1184	0.3323	0.1566
16:	0.1836	0.6043	0.0426	0.2174	0.0117
17:	0.2955	0.0329	0.0007	0.0455	0.1099

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18:      0.3905          0.0000          0.0000          0.0000          0.6900
19:      0.8272          0.1392          0.0654          0.0412          0.6775
20:      0.7541          0.0134          0.0003          0.0061          0.1269
21:      0.3595          0.0069          0.0106          0.0567          0.7174
22:      0.3897          0.2607          0.0291          0.1337          0.2059
23:      0.6818          0.0342          0.0058          0.0022          0.6340
    6w vs 5y-L5 Preop vs 6w-L4 Preop vs 2y-L4 Preop vs 5y-L4 6w vs 2y-L4
    2y vs 5y-L4 6w vs 5y-L4
 1:      0.2976          0.5366
 2:      0.9577          0.7205
 3:      0.8952          0.8774
 4:      0.8792          0.9016
 5:      0.5515          0.9733
 6:      0.9534          0.8013
 7:      0.5711          0.5093
 8:      0.5981          0.8083
 9:      0.5168          0.9137
10:      0.6545          0.8091
11:      0.8754          0.1905
12:      0.7194          0.3576
13:      0.5891          0.9139
14:      0.4816          0.5537
15:      0.6027          0.4261
16:      0.5035          0.0884
17:      0.2197          0.8704
18:      0.5900          0.8361
19:      0.7003          0.4429
20:      0.5295          0.4703
21:      0.1868          0.0775
22:      0.5225          0.5874
23:      0.5984          0.3520
    2y vs 5y-L4 6w vs 5y-L4
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Change Quality of Life

	Name	all	Iliac
1	ODI - Score (%)	41.79 (18.57)	45.4 (16.99)
2	6M. ODI - Score (%)	31.09 (17.56)	32.45 (18.11)
3	1Y. ODI - Score (%)	29.23 (17.47)	31.25 (17.15)
4	2Y. ODI - Score (%)	30.68 (21.61)	33.73 (21.78)
5	5Y. ODI - Score (%)	32.92 (21.78)	36.34 (23.02)
6	SRS22 - Function / Activity	2.87 (0.76)	2.76 (0.69)
7	6M. SRS22 - Function / Activity	3.07 (0.75)	3.05 (0.69)
8	1Y. SRS22 - Function / Activity	3.2 (0.85)	3.1 (0.77)
9	2Y. SRS22 - Function / Activity	3.31 (0.87)	3.18 (0.83)
10	5Y. SRS22 - Function / Activity	3.31 (0.89)	3.21 (0.89)
11	SRS22 - Pain	2.42 (0.89)	2.32 (0.8)
12	6M. SRS22 - Pain	3.37 (0.87)	3.39 (0.86)
13	1Y. SRS22 - Pain	3.47 (0.98)	3.41 (0.97)
14	2Y. SRS22 - Pain	3.4 (1.11)	3.34 (1.13)
15	5Y. SRS22 - Pain	3.17 (1.15)	3.15 (1.19)
16	SRS22 - Self image / Appearance	2.21 (0.71)	2.09 (0.64)
17	6M. SRS22 - Self image / Appearance	3.42 (0.82)	3.34 (0.82)

18	1Y. SRS22 - Self image / Appearance	3.45 (0.8)	3.36 (0.75)
19	2Y. SRS22 - Self image / Appearance	3.36 (0.95)	3.22 (0.93)
20	5Y. SRS22 - Self image / Appearance	3.25 (0.98)	3.12 (0.99)
21	SRS22 - Mental health	3.04 (0.89)	2.95 (0.91)
22	6M. SRS22 - Mental health	3.49 (0.86)	3.48 (0.88)
23	1Y. SRS22 - Mental health	3.55 (0.87)	3.51 (0.86)
24	2Y. SRS22 - Mental health	3.43 (0.97)	3.36 (1.01)
25	5Y. SRS22 - Mental health	3.43 (0.96)	3.35 (0.99)
26	SRS22 - SRS Subtotal score	2.64 (0.66)	2.54 (0.59)
27	6M. SRS22 - SRS Subtotal score	3.34 (0.66)	3.31 (0.65)
28	1Y. SRS22 - SRS Subtotal score	3.42 (0.73)	3.36 (0.69)
29	2Y. SRS22 - SRS Subtotal score	3.37 (0.85)	3.27 (0.85)
30	5Y. SRS22 - SRS Subtotal score	3.29 (0.87)	3.21 (0.89)
31	SRS22 - Satisfaction with management	2.99 (1.11)	2.81 (1.03)
32	6M. SRS22 - Satisfaction with management	4.27 (0.78)	4.22 (0.81)
33	1Y. SRS22 - Satisfaction with management	4.2 (0.91)	4.16 (0.87)
34	2Y. SRS22 - Satisfaction with management	4.13 (0.97)	4.09 (1.03)
35	5Y. SRS22 - Satisfaction with management	3.9 (1.03)	3.8 (1.09)
36	SF36 - PCS	34.69 (8.45)	33.25 (7.42)
37	6M. SF36 - PCS	38.96 (8.11)	38.18 (8.07)
38	1Y. SF36 - PCS	40.22 (9.27)	39.03 (8.39)
39	2Y. SF36 - PCS	40.82 (9.65)	39.48 (9.32)
40	5Y. SF36 - PCS	39.2 (10.56)	37.57 (10.96)
41	SF36 - MCS	41.56 (11.95)	40.86 (11.79)
42	6M. SF36 - MCS	46.57 (12.03)	46.36 (12.1)
43	1Y. SF36 - MCS	46.84 (12.34)	45.95 (12.56)
44	2Y. SF36 - MCS	46.56 (12.1)	45.27 (12.27)
45	5Y. SF36 - MCS	46.48 (11.93)	45.06 (12.33)
46	6M. ODI - Score (%)	-10.93 (17.83)	-13.07 (17.95)
47	1Y. ODI - Score (%)	-13.48 (15.68)	-15.24 (16.03)
48	2Y. ODI - Score (%)	-11.09 (17.78)	-12.03 (18.68)
49	5Y. ODI - Score (%)	-9.17 (17.99)	-9.96 (20.27)
50	6M. SRS22 - Function / Activity	0.22 (0.76)	0.29 (0.76)
51	1Y. SRS22 - Function / Activity	0.35 (0.68)	0.36 (0.63)
52	2Y. SRS22 - Function / Activity	0.42 (0.72)	0.41 (0.72)
53	5Y. SRS22 - Function / Activity	0.42 (0.8)	0.43 (0.84)
54	6M. SRS22 - Pain	0.97 (0.95)	1.06 (0.96)
55	1Y. SRS22 - Pain	1.04 (0.9)	1.07 (0.9)
56	2Y. SRS22 - Pain	0.98 (0.98)	1.04 (1.02)
57	5Y. SRS22 - Pain	0.75 (1.06)	0.82 (1.16)
58	6M. SRS22 - Self image / Appearance	1.23 (0.94)	1.25 (0.96)
59	1Y. SRS22 - Self image / Appearance	1.25 (0.85)	1.27 (0.82)
60	2Y. SRS22 - Self image / Appearance	1.17 (0.94)	1.15 (0.97)
61	5Y. SRS22 - Self image / Appearance	1.05 (0.94)	1.06 (1.04)
62	6M. SRS22 - Mental health	0.44 (0.83)	0.49 (0.83)
63	1Y. SRS22 - Mental health	0.5 (0.82)	0.54 (0.81)
64	2Y. SRS22 - Mental health	0.39 (0.82)	0.4 (0.82)
65	5Y. SRS22 - Mental health	0.37 (0.82)	0.38 (0.76)
66	6M. SRS22 - SRS Subtotal score	0.71 (0.63)	0.77 (0.61)
67	1Y. SRS22 - SRS Subtotal score	0.79 (0.61)	0.81 (0.56)
68	2Y. SRS22 - SRS Subtotal score	0.73 (0.67)	0.74 (0.67)
69	5Y. SRS22 - SRS Subtotal score	0.64 (0.68)	0.67 (0.73)
70	6M. SRS22 - Satisfaction with management	1.28 (1.33)	1.36 (1.32)
71	1Y. SRS22 - Satisfaction with management	1.24 (1.31)	1.42 (1.2)

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72 2Y. SRS22 - Satisfaction with management    1.02 (1.39)    1.06 (1.35)
73 5Y. SRS22 - Satisfaction with management    0.84 (1.25)    0.98 (1.22)
74                            6M. SF36 - PCS     4.78 (8.4)     5.39 (8.43)
75                            1Y. SF36 - PCS    5.92 (8.03)     6.3 (7.91)
76                            2Y. SF36 - PCS    6.19 (9.39)    6.62 (9.56)
77                            5Y. SF36 - PCS   4.68 (10.01)   4.96 (10.59)
78                            6M. SF36 - MCS   4.71 (12.08)   4.99 (12.25)
79                            1Y. SF36 - MCS   4.99 (11.64)   4.88 (11.88)
80                            2Y. SF36 - MCS    4.7 (12.17)   4.09 (11.85)
81                            5Y. SF36 - MCS   4.12 (12.35)   3.44 (11.61)
            L5          L4 Iliac vs L5 p_val Iliac vs L4 p_val
1   41.76 (18.74) 28.54 (18.42)         0.3138          0.0000
2   29.21 (16.67)  27.57 (15.9)         0.3649          0.1237
3   31.43 (17.85) 19.89 (15.65)         0.9591          0.0004
4   28.76 (21.58) 21.76 (18.72)         0.2431          0.0014
5   30.35 (17.28) 24.13 (18.65)         0.1499          0.0039
6     2.83 (0.74)    3.3 (0.91)         0.6551          0.0017
7     3.04 (0.89)   3.19 (0.88)         0.9530          0.4004
8     3.07 (0.96)   3.66 (0.95)         0.8484          0.0025
9     3.34 (0.85)   3.73 (0.93)         0.3548          0.0016
10    3.34 (0.72)   3.58 (0.96)         0.4592          0.0638
11    2.29 (0.92)   2.87 (1.05)         0.8548          0.0052
12     3.3 (0.93)   3.36 (0.87)         0.6539          0.8668
13    3.34 (1.04)   3.79 (0.97)         0.7201          0.0472
14    3.25 (1.05)   3.72 (1.03)         0.6653          0.0536
15    3.01 (1.05)    3.4 (1.09)         0.5792          0.2703
16    2.28 (0.71)   2.59 (0.85)         0.1727          0.0018
17     3.5 (0.93)   3.68 (0.71)         0.4294          0.0180
18    3.42 (0.96)    3.8 (0.75)         0.7377          0.0029
19    3.48 (0.95)   3.76 (0.9)          0.1801          0.0020
20    3.27 (0.97)   3.64 (0.88)         0.4836          0.0079
21     3.2 (0.87)   3.21 (0.83)         0.1527          0.1072
22     3.5 (0.91)    3.5 (0.8)          0.8963          0.9050
23    3.51 (0.97)   3.71 (0.79)         0.9830          0.2047
24    3.56 (0.9)    3.58 (0.88)         0.2884          0.1979
25    3.45 (0.82)   3.66 (0.94)         0.5693          0.1094
26    2.66 (0.68)      3 (0.79)         0.3300          0.0020
27    3.33 (0.74)   3.43 (0.67)         0.9054          0.3562
28    3.34 (0.82)   3.74 (0.74)         0.8995          0.0078
29    3.41 (0.81)    3.7 (0.82)         0.4092          0.0065
30    3.27 (0.79)   3.57 (0.87)         0.7371          0.0475
31    3.18 (1.19)   3.43 (1.19)         0.2355          0.0925
32    4.22 (0.91)   4.46 (0.46)         0.9893          0.0290
33    4.13 (1.09)   4.43 (0.85)         0.8909          0.1139
34    3.98 (0.94)   4.41 (0.72)         0.5984          0.0362
35    3.98 (0.95)   4.15 (0.86)         0.3970          0.0726
36   34.47 (9.05)   40.21 (9.4)         0.4766          0.0001
37   38.22 (7.78)  42.53 (7.82)         0.9811          0.0060
38  38.87 (10.08)  45.76 (9.84)         0.9346          0.0006
39      41 (8.93) 45.26 (10.23)         0.3905          0.0028
40   40.17 (8.79)  43.72 (9.41)         0.2105          0.0039
41  44.65 (12.76) 41.38 (11.67)         0.1275          0.8096
42  46.58 (12.53) 47.37 (11.65)         0.9325          0.6579
43  46.55 (13.63)  50.35 (9.83)         0.8283          0.0315
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44  49.29 (12.92) 48.61 (10.27)          0.1135          0.0959
45  47.91 (11.52) 49.95 (10.32)          0.2740          0.0344
46 -12.22 (13.28) -2.03 (18.23)          0.7795          0.0028
47 -10.69 (13.53)  -9.5 (15.46)          0.1227          0.0624
48 -11.38 (15.56) -7.62 (16.39)          0.8388          0.1684
49  -10.56 (12.1) -5.57 (13.95)          0.8511          0.1870
50   0.25 (0.68)  -0.08 (0.77)           0.8145          0.0158
51   0.22 (0.82)   0.41 (0.74)           0.3956          0.7072
52   0.39 (0.73)   0.48 (0.72)           0.8895          0.5783
53   0.55 (0.72)   0.29 (0.73)           0.4942          0.3613
54   1.03 (0.77)   0.59 (0.94)           0.8740          0.0122
55   1.01 (0.96)   0.97 (0.87)           0.7749          0.5601
56   0.84 (0.68)   0.89 (1.04)           0.1890          0.4224
57   0.67 (0.87)   0.59 (0.87)           0.4791          0.2577
58   1.26 (0.94)   1.11 (0.88)           0.9551          0.4221
59    1.2 (0.88)   1.24 (0.92)           0.7093          0.8719
60   1.16 (0.83)   1.21 (0.96)           0.9906          0.7444
61   0.98 (0.76)   1.06 (0.69)           0.6245          0.9761
62   0.39 (0.89)   0.31 (0.79)           0.6164          0.2446
63   0.28 (0.87)   0.53 (0.81)           0.1504          0.9770
64   0.33 (0.73)   0.41 (0.89)           0.6612          0.9320
65    0.2 (0.87)   0.45 (0.95)           0.3374          0.6997
66   0.72 (0.61)   0.48 (0.67)           0.7027          0.0268
67   0.66 (0.74)   0.79 (0.66)           0.3168          0.8322
68   0.67 (0.58)   0.75 (0.74)           0.5664          0.9692
69   0.58 (0.57)    0.6 (0.61)           0.4972          0.5763
70   1.17 (1.53)   1.12 (1.21)           0.6639          0.5314
71   1.06 (1.34)   0.67 (1.64)           0.3453          0.1547
72   0.81 (1.78)   1.15 (1.03)           0.6154          0.7836
73   0.75 (1.29)    0.5 (1.36)           0.5546          0.3114
74    4.42 (8.6)   2.91 (8.04)           0.5898          0.1209
75    4.23 (8.8)   6.02 (7.87)           0.2529          0.8569
76   5.94 (8.68)   4.95 (9.53)           0.7019          0.3524
77   4.94 (9.54)   3.54 (8.59)           0.9921          0.4670
78  1.71 (10.69)  6.18 (12.46)           0.1620          0.6233
79   1.6 (10.44)  8.28 (11.13)           0.1459          0.1259
80  3.96 (11.54)  7.38 (13.64)           0.9557          0.1903
81  2.82 (11.74)  7.49 (14.86)           0.8166          0.1850
    L5 vs L4 p_val
1          0.0041
2          0.6931
3          0.0079
4          0.1525
5          0.1974
6          0.0196
7          0.5186
8          0.0153
9          0.0692
10         0.2734
11         0.0171
12         0.7958
13         0.0782
14         0.0644
15         0.1761
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16	0.1041
17	0.3987
18	0.0832
19	0.2205
20	0.1402
21	0.9633
22	0.9765
23	0.3680
24	0.9290
25	0.3631
26	0.0630
27	0.5873
28	0.0430
29	0.1445
30	0.1675
31	0.5650
32	0.2410
33	0.2390
34	0.0467
35	0.4955
36	0.0114
37	0.0326
38	0.0072
39	0.0653
40	0.1502
41	0.2703
42	0.7971
43	0.2102
44	0.8107
45	0.4931
46	0.0143
47	0.7458
48	0.3331
49	0.1611
50	0.0812
51	0.3376
52	0.5942
53	0.1870
54	0.0483
55	0.8538
56	0.8254
57	0.7397
58	0.5285
59	0.8640
60	0.7963
61	0.6645
62	0.7027
63	0.2357
64	0.6842
65	0.2971
66	0.1541
67	0.4972
68	0.6424
69	0.9193

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70          0.9220
71          0.5028
72          0.5241
73          0.6369
74          0.4826
75          0.4010
76          0.6506
77          0.5778
78          0.1340
79          0.0169
80          0.2634
81          0.2031
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	ID	Preop vs 6w	Preop vs 2y	Preop vs 5y
1:	Static Major curve Cobb angle	0.0000	0.0000	0.0000
2:	Sagittal T2-T5	0.0002	0.0000	0.0002
3:	Sagittal T5-T12	0.0216	0.0001	0.0000
4:	Sagittal T2-T12	0.0000	0.0000	0.0000
5:	Lordosis (top of L1-S1)	0.0000	0.0000	0.0000
6:	Pelvic Incidence	0.2078	0.8303	0.9470
7:	Pelvic Tilt	0.0000	0.0006	0.0654
8:	Sacral Slope	0.0002	0.0047	0.1085
9:	RLL	0.0000	0.0000	0.0000
10:	Global Tilt	0.0000	0.0000	0.0134
11:	T1 Sagittal Tilt	0.0000	0.0000	0.0150
12:	Thoracolumbar L2-T10	0.0000	0.0002	0.0017
13:	RSA	0.0000	0.0000	0.0029
14:	RPV	0.0000	0.0000	0.0188
15:	ODI - Score (%)	0.0000	0.0000	0.0000
16:	SRS22 - Function / Activity	0.0000	0.0000	0.0000
17:	SRS22 - Pain	0.0000	0.0000	0.0000
18:	SRS22 - Self image / Appearance	0.0000	0.0000	0.0000
19:	SRS22 - Mental health	0.0000	0.0000	0.0000
20:	SRS22 - SRS Subtotal score	0.0000	0.0000	0.0000
21:	SRS22 - Satisfaction with management	0.0000	0.0000	0.0000
22:	SF36 - PCS	0.0000	0.0000	0.0000
23:	SF36 - MCS	0.0000	0.0000	0.0000

	ID	Preop vs 6w	Preop vs 2y	Preop vs 5y

	6w vs 2y	2y vs 5y	6w vs 5y	Preop vs 6w-Iliac	Preop vs 2y-Iliac
1:	0.9061	0.9451	0.9742	0.0000	0.0000
2:	0.1551	0.9702	0.2454	0.0038	0.0001
3:	0.0395	0.3581	0.0047	0.0003	0.0000
4:	0.0244	0.4036	0.0052	0.0000	0.0000
5:	0.7483	0.7390	0.5427	0.0000	0.0000
6:	0.2979	0.9032	0.3013	0.1666	0.7518
7:	0.0093	0.2185	0.0006	0.0000	0.0001
8:	0.3668	0.3435	0.0800	0.0000	0.0030
9:	0.2886	0.6162	0.1619	0.0000	0.0000
10:	0.0045	0.1599	0.0003	0.0000	0.0000
11:	0.5955	0.2662	0.1199	0.0000	0.0000
12:	0.1052	0.7642	0.1035	0.1672	0.7197
13:	0.0033	0.0905	0.0001	0.0000	0.0000
14:	0.0117	0.1262	0.0002	0.0000	0.0000
15:	0.9315	0.3268	0.3735	0.0000	0.0000

16:	0.0078	0.9532	0.0156	0.0000	0.0000
17:	0.9162	0.0382	0.0474	0.0000	0.0000
18:	0.5308	0.2471	0.0830	0.0000	0.0000
19:	0.5411	0.7707	0.3913	0.0000	0.0000
20:	0.7007	0.2160	0.3673	0.0000	0.0000
21:	0.2288	0.4057	0.0403	0.0000	0.0000
22:	0.1254	0.1563	0.9179	0.0000	0.0000
23:	0.9899	0.6680	0.6621	0.0000	0.0000

```
    6w vs 2y 2y vs 5y 6w vs 5y Preop vs 6w-Iliac Preop vs 2y-Iliac
    Preop vs 5y-Iliac 6w vs 2y-Iliac 2y vs 5y-Iliac 6w vs 5y-Iliac
```

	Preop vs 5y-Iliac	6w vs 2y-Iliac	2y vs 5y-Iliac	6w vs 5y-Iliac
1:	0.0000	0.8396	0.5482	0.4285
2:	0.0002	0.1521	0.5315	0.0761
3:	0.0000	0.0179	0.5370	0.0063
4:	0.0000	0.0166	0.2363	0.0012
5:	0.0000	0.2746	0.8078	0.4843
6:	0.8862	0.2953	0.8902	0.2861
7:	0.0078	0.0019	0.3543	0.0003
8:	0.0324	0.1817	0.5355	0.0646
9:	0.0000	0.0528	0.8916	0.1269
10:	0.0014	0.0002	0.2599	0.0001
11:	0.0130	0.1333	0.3315	0.0418
12:	0.6529	0.1648	0.8683	0.3540
13:	0.0002	0.0001	0.1849	0.0000
14:	0.0010	0.0018	0.2744	0.0001
15:	0.0000	0.6532	0.4386	0.2389
16:	0.0000	0.1976	0.8118	0.1854
17:	0.0000	0.8726	0.1369	0.1000
18:	0.0000	0.4274	0.5098	0.1747
19:	0.0000	0.3819	0.8741	0.3188
20:	0.0000	0.7578	0.4623	0.3037
21:	0.0000	0.2550	0.7568	0.1510
22:	0.0000	0.2846	0.2325	0.7460
23:	0.0000	0.5575	0.6822	0.3404

```
    Preop vs 5y-Iliac 6w vs 2y-Iliac 2y vs 5y-Iliac 6w vs 5y-Iliac
    Preop vs 6w-L5 Preop vs 2y-L5 Preop vs 5y-L5 6w vs 2y-L5 2y vs 5y-L5
```

	Preop vs 6w-L5	Preop vs 2y-L5	Preop vs 5y-L5	6w vs 2y-L5	2y vs 5y-L5
1:	0.0001	0.0009	0.0017	0.6289	0.9512
2:	0.0653	0.1625	0.9920	0.8314	0.1900
3:	0.9140	0.9508	0.1510	0.9739	0.2042
4:	0.2723	0.1386	0.1237	0.6647	0.8519
5:	0.6880	0.3898	0.7138	0.6056	0.7083
6:	0.9249	0.6989	0.5758	0.7955	0.8216
7:	0.9614	0.6630	0.2623	0.6979	0.4351
8:	0.9321	0.8848	0.8554	0.9534	0.7485
9:	0.6862	0.4474	0.9330	0.6839	0.5776
10:	0.9664	0.9353	0.2443	0.9707	0.2250
11:	0.7456	0.6815	0.6147	0.3809	0.2972
12:	0.0032	0.0079	0.0591	0.5396	0.3921
13:	0.9924	0.9825	0.2729	0.9890	0.1992
14:	0.9876	0.8326	0.3554	0.7968	0.4221
15:	0.0000	0.0000	0.0000	0.8223	0.8247
16:	0.0000	0.0000	0.0000	0.4837	0.4160
17:	0.0000	0.0000	0.0000	0.3250	0.4333
18:	0.0000	0.0000	0.0000	0.6628	0.3962
19:	0.0000	0.0000	0.0000	0.7838	0.5439

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20:        0.0000          0.0000          0.0000      0.7836      0.5581
21:        0.0003          0.0001          0.0000      0.5563      0.9103
22:        0.0000          0.0000          0.0000      0.4966      0.6825
23:        0.0000          0.0000          0.0000      0.4368      0.7154
    Preop vs 6w-L5 Preop vs 2y-L5 Preop vs 5y-L5 6w vs 2y-L5 2y vs 5y-L5
    6w vs 5y-L5 Preop vs 6w-L4 Preop vs 2y-L4 Preop vs 5y-L4 6w vs 2y-L4
 1:        0.7017          0.0000          0.0000      0.0000      0.5684
 2:        0.0919          0.1195          0.0470      0.1768      0.5695
 3:        0.1663          0.2394          0.3832      0.3596      0.7383
 4:        0.5582          0.8271          0.6397      0.7699      0.7448
 5:        0.9673          0.8091          0.6544      0.8665      0.4275
 6:        0.6614          0.6167          0.9073      0.8783      0.7028
 7:        0.2787          0.2240          0.2781      0.8018      0.9038
 8:        0.7927          0.7356          0.4890      0.9776      0.7253
 9:        0.8036          0.9798          0.5438      0.9094      0.4334
10:        0.2478          0.2447          0.1738      0.5198      0.7586
11:        0.8243          0.9735          0.2329      0.2316      0.1745
12:        0.1906          0.0000          0.0000      0.0000      0.5226
13:        0.2240          0.3315          0.1452      0.5493      0.5301
14:        0.3000          0.3021          0.2409      0.8502      0.8802
15:        0.6388          0.0000          0.0000      0.0000      0.1800
16:        0.1379          0.0000          0.0000      0.0000      0.0023
17:        0.1203          0.0000          0.0000      0.0000      0.2067
18:        0.2332          0.0000          0.0000      0.0000      0.6382
19:        0.4342          0.0000          0.0000      0.0000      0.5995
20:        0.4140          0.0000          0.0000      0.0000      0.1100
21:        0.4213          0.0000          0.0000      0.0000      0.9312
22:        0.8360          0.0000          0.0000      0.0000      0.3323
23:        0.7221          0.0000          0.0000      0.0000      0.6997
    6w vs 5y-L5 Preop vs 6w-L4 Preop vs 2y-L4 Preop vs 5y-L4 6w vs 2y-L4
    2y vs 5y-L4 6w vs 5y-L4
 1:        0.2976          0.5366
 2:        0.9577          0.7205
 3:        0.8952          0.8774
 4:        0.8792          0.9016
 5:        0.5515          0.9733
 6:        0.9534          0.8013
 7:        0.5711          0.5093
 8:        0.5981          0.8083
 9:        0.5168          0.9137
10:        0.6545          0.8091
11:        0.8754          0.1905
12:        0.7194          0.3576
13:        0.5891          0.9139
14:        0.4816          0.5537
15:        0.5814          0.3838
16:        0.2780          0.0547
17:        0.2163          0.9680
18:        0.4510          0.7985
19:        0.8503          0.5036
20:        0.3679          0.4516
21:        0.2067          0.2590
22:        0.5326          0.7646
23:        0.9749          0.7085
```

2y vs 5y-L4 6w vs 5y-L4

Surgery

	Name	all	Iliac
1	ODI - Score (%)	41.79 (18.57)	45.4 (16.99)
2	6M. ODI - Score (%)	31.09 (17.56)	32.45 (18.11)
3	1Y. ODI - Score (%)	29.23 (17.47)	31.25 (17.15)
4	2Y. ODI - Score (%)	30.68 (21.61)	33.73 (21.78)
5	5Y. ODI - Score (%)	32.92 (21.78)	36.34 (23.02)
6	SRS22 - Function / Activity	2.87 (0.76)	2.76 (0.69)
7	6M. SRS22 - Function / Activity	3.07 (0.75)	3.05 (0.69)
8	1Y. SRS22 - Function / Activity	3.2 (0.85)	3.1 (0.77)
9	2Y. SRS22 - Function / Activity	3.31 (0.87)	3.18 (0.83)
10	5Y. SRS22 - Function / Activity	3.31 (0.89)	3.21 (0.89)
11	SRS22 - Pain	2.42 (0.89)	2.32 (0.8)
12	6M. SRS22 - Pain	3.37 (0.87)	3.39 (0.86)
13	1Y. SRS22 - Pain	3.47 (0.98)	3.41 (0.97)
14	2Y. SRS22 - Pain	3.4 (1.11)	3.34 (1.13)
15	5Y. SRS22 - Pain	3.17 (1.15)	3.15 (1.19)
16	SRS22 - Self image / Appearance	2.21 (0.71)	2.09 (0.64)
17	6M. SRS22 - Self image / Appearance	3.42 (0.82)	3.34 (0.82)
18	1Y. SRS22 - Self image / Appearance	3.45 (0.8)	3.36 (0.75)
19	2Y. SRS22 - Self image / Appearance	3.36 (0.95)	3.22 (0.93)
20	5Y. SRS22 - Self image / Appearance	3.25 (0.98)	3.12 (0.99)
21	SRS22 - Mental health	3.04 (0.89)	2.95 (0.91)
22	6M. SRS22 - Mental health	3.49 (0.86)	3.48 (0.88)
23	1Y. SRS22 - Mental health	3.55 (0.87)	3.51 (0.86)
24	2Y. SRS22 - Mental health	3.43 (0.97)	3.36 (1.01)
25	5Y. SRS22 - Mental health	3.43 (0.96)	3.35 (0.99)
26	SRS22 - SRS Subtotal score	2.64 (0.66)	2.54 (0.59)
27	6M. SRS22 - SRS Subtotal score	3.34 (0.66)	3.31 (0.65)
28	1Y. SRS22 - SRS Subtotal score	3.42 (0.73)	3.36 (0.69)
29	2Y. SRS22 - SRS Subtotal score	3.37 (0.85)	3.27 (0.85)
30	5Y. SRS22 - SRS Subtotal score	3.29 (0.87)	3.21 (0.89)
31	SRS22 - Satisfaction with management	2.99 (1.11)	2.81 (1.03)
32	6M. SRS22 - Satisfaction with management	4.27 (0.78)	4.22 (0.81)
33	1Y. SRS22 - Satisfaction with management	4.2 (0.91)	4.16 (0.87)
34	2Y. SRS22 - Satisfaction with management	4.13 (0.97)	4.09 (1.03)
35	5Y. SRS22 - Satisfaction with management	3.9 (1.03)	3.8 (1.09)
36	SF36 - PCS	34.69 (8.45)	33.25 (7.42)
37	6M. SF36 - PCS	38.96 (8.11)	38.18 (8.07)
38	1Y. SF36 - PCS	40.22 (9.27)	39.03 (8.39)
39	2Y. SF36 - PCS	40.82 (9.65)	39.48 (9.32)
40	5Y. SF36 - PCS	39.2 (10.56)	37.57 (10.96)
41	SF36 - MCS	41.56 (11.95)	40.86 (11.79)
42	6M. SF36 - MCS	46.57 (12.03)	46.36 (12.1)
43	1Y. SF36 - MCS	46.84 (12.34)	45.95 (12.56)
44	2Y. SF36 - MCS	46.56 (12.1)	45.27 (12.27)
45	5Y. SF36 - MCS	46.48 (11.93)	45.06 (12.33)
46	6M. ODI - Score (%)	-10.93 (17.83)	-13.07 (17.95)
47	1Y. ODI - Score (%)	-13.48 (15.68)	-15.24 (16.03)
48	2Y. ODI - Score (%)	-11.09 (17.78)	-12.03 (18.68)

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49	5Y. ODI - Score (%)	-9.17 (17.99)	-9.96 (20.27)
50	6M. SRS22 - Function / Activity	0.22 (0.76)	0.29 (0.76)
51	1Y. SRS22 - Function / Activity	0.35 (0.68)	0.36 (0.63)
52	2Y. SRS22 - Function / Activity	0.42 (0.72)	0.41 (0.72)
53	5Y. SRS22 - Function / Activity	0.42 (0.8)	0.43 (0.84)
54	6M. SRS22 - Pain	0.97 (0.95)	1.06 (0.96)
55	1Y. SRS22 - Pain	1.04 (0.9)	1.07 (0.9)
56	2Y. SRS22 - Pain	0.98 (0.98)	1.04 (1.02)
57	5Y. SRS22 - Pain	0.75 (1.06)	0.82 (1.16)
58	6M. SRS22 - Self image / Appearance	1.23 (0.94)	1.25 (0.96)
59	1Y. SRS22 - Self image / Appearance	1.25 (0.85)	1.27 (0.82)
60	2Y. SRS22 - Self image / Appearance	1.17 (0.94)	1.15 (0.97)
61	5Y. SRS22 - Self image / Appearance	1.05 (0.94)	1.06 (1.04)
62	6M. SRS22 - Mental health	0.44 (0.83)	0.49 (0.83)
63	1Y. SRS22 - Mental health	0.5 (0.82)	0.54 (0.81)
64	2Y. SRS22 - Mental health	0.39 (0.82)	0.4 (0.82)
65	5Y. SRS22 - Mental health	0.37 (0.82)	0.38 (0.76)
66	6M. SRS22 - SRS Subtotal score	0.71 (0.63)	0.77 (0.61)
67	1Y. SRS22 - SRS Subtotal score	0.79 (0.61)	0.81 (0.56)
68	2Y. SRS22 - SRS Subtotal score	0.73 (0.67)	0.74 (0.67)
69	5Y. SRS22 - SRS Subtotal score	0.64 (0.68)	0.67 (0.73)
70	6M. SRS22 - Satisfaction with management	1.28 (1.33)	1.36 (1.32)
71	1Y. SRS22 - Satisfaction with management	1.24 (1.31)	1.42 (1.2)
72	2Y. SRS22 - Satisfaction with management	1.02 (1.39)	1.06 (1.35)
73	5Y. SRS22 - Satisfaction with management	0.84 (1.25)	0.98 (1.22)
74	6M. SF36 - PCS	4.78 (8.4)	5.39 (8.43)
75	1Y. SF36 - PCS	5.92 (8.03)	6.3 (7.91)
76	2Y. SF36 - PCS	6.19 (9.39)	6.62 (9.56)
77	5Y. SF36 - PCS	4.68 (10.01)	4.96 (10.59)
78	6M. SF36 - MCS	4.71 (12.08)	4.99 (12.25)
79	1Y. SF36 - MCS	4.99 (11.64)	4.88 (11.88)
80	2Y. SF36 - MCS	4.7 (12.17)	4.09 (11.85)
81	5Y. SF36 - MCS	4.12 (12.35)	3.44 (11.61)
82	Total Operative Blood Loss st1+st2+st3	1763.26 (1341.21)	1987.04 (1453.2)
83	Total surgical time st1+st2+st3	325.87 (182.83)	328.52 (181.88)
84	Number of Posterior Instrumented Levels	10.43 (3.62)	10.74 (3.52)
85	Surgical Approach-Anterior-Posterior	3 (0.01)	2 (1.42%)
86	Surgical Approach-Posterior	198 (0.93)	128 (90.78%)
87	Surgical Approach-Posterior-Anterior	9 (0.04)	9 (6.38%)
88	Surgical Approach-Posterior-Posterior	2 (0.01)	1 (0.71%)
89	Surgical Approach-Poterior-Anterior	1 (0)	1 (0.71%)
90	Number of Interbody Fusions	1.94 (1.11)	1.96 (1.07)
91	Decompression-No	162 (0.76)	106 (74.65%)
92	Decompression-Yes	52 (0.24)	36 (25.35%)
93	Interbody Fusion-No	98 (0.46)	49 (34.51%)
94	Interbody Fusion-Yes	116 (0.54)	93 (65.49%)
95	Osteotomy-No	94 (0.44)	52 (36.62%)
96	Osteotomy-Yes	120 (0.56)	90 (63.38%)
97	3CO-No	74 (0.35)	56 (39.44%)
98	3CO-Yes	140 (0.65)	86 (60.56%)

	L5	L4	Iliac vs L5 p_val	Iliac vs L4 p_val
1	41.76 (18.74)	28.54 (18.42)	0.3138	0.0000
2	29.21 (16.67)	27.57 (15.9)	0.3649	0.1237
3	31.43 (17.85)	19.89 (15.65)	0.9591	0.0004

4	28.76 (21.58)	21.76 (18.72)	0.2431	0.0014
5	30.35 (17.28)	24.13 (18.65)	0.1499	0.0039
6	2.83 (0.74)	3.3 (0.91)	0.6551	0.0017
7	3.04 (0.89)	3.19 (0.88)	0.9530	0.4004
8	3.07 (0.96)	3.66 (0.95)	0.8484	0.0025
9	3.34 (0.85)	3.73 (0.93)	0.3548	0.0016
10	3.34 (0.72)	3.58 (0.96)	0.4592	0.0638
11	2.29 (0.92)	2.87 (1.05)	0.8548	0.0052
12	3.3 (0.93)	3.36 (0.87)	0.6539	0.8668
13	3.34 (1.04)	3.79 (0.97)	0.7201	0.0472
14	3.25 (1.05)	3.72 (1.03)	0.6653	0.0536
15	3.01 (1.05)	3.4 (1.09)	0.5792	0.2703
16	2.28 (0.71)	2.59 (0.85)	0.1727	0.0018
17	3.5 (0.93)	3.68 (0.71)	0.4294	0.0180
18	3.42 (0.96)	3.8 (0.75)	0.7377	0.0029
19	3.48 (0.95)	3.76 (0.9)	0.1801	0.0020
20	3.27 (0.97)	3.64 (0.88)	0.4836	0.0079
21	3.2 (0.87)	3.21 (0.83)	0.1527	0.1072
22	3.5 (0.91)	3.5 (0.8)	0.8963	0.9050
23	3.51 (0.97)	3.71 (0.79)	0.9830	0.2047
24	3.56 (0.9)	3.58 (0.88)	0.2884	0.1979
25	3.45 (0.82)	3.66 (0.94)	0.5693	0.1094
26	2.66 (0.68)	3 (0.79)	0.3300	0.0020
27	3.33 (0.74)	3.43 (0.67)	0.9054	0.3562
28	3.34 (0.82)	3.74 (0.74)	0.8995	0.0078
29	3.41 (0.81)	3.7 (0.82)	0.4092	0.0065
30	3.27 (0.79)	3.57 (0.87)	0.7371	0.0475
31	3.18 (1.19)	3.43 (1.19)	0.2355	0.0925
32	4.22 (0.91)	4.46 (0.46)	0.9893	0.0290
33	4.13 (1.09)	4.43 (0.85)	0.8909	0.1139
34	3.98 (0.94)	4.41 (0.72)	0.5984	0.0362
35	3.98 (0.95)	4.15 (0.86)	0.3970	0.0726
36	34.47 (9.05)	40.21 (9.4)	0.4766	0.0001
37	38.22 (7.78)	42.53 (7.82)	0.9811	0.0060
38	38.87 (10.08)	45.76 (9.84)	0.9346	0.0006
39	41 (8.93)	45.26 (10.23)	0.3905	0.0028
40	40.17 (8.79)	43.72 (9.41)	0.2105	0.0039
41	44.65 (12.76)	41.38 (11.67)	0.1275	0.8096
42	46.58 (12.53)	47.37 (11.65)	0.9325	0.6579
43	46.55 (13.63)	50.35 (9.83)	0.8283	0.0315
44	49.29 (12.92)	48.61 (10.27)	0.1135	0.0959
45	47.91 (11.52)	49.95 (10.32)	0.2740	0.0344
46	-12.22 (13.28)	-2.03 (18.23)	0.7795	0.0028
47	-10.69 (13.53)	-9.5 (15.46)	0.1227	0.0624
48	-11.38 (15.56)	-7.62 (16.39)	0.8388	0.1684
49	-10.56 (12.1)	-5.57 (13.95)	0.8511	0.1870
50	0.25 (0.68)	-0.08 (0.77)	0.8145	0.0158
51	0.22 (0.82)	0.41 (0.74)	0.3956	0.7072
52	0.39 (0.73)	0.48 (0.72)	0.8895	0.5783
53	0.55 (0.72)	0.29 (0.73)	0.4942	0.3613
54	1.03 (0.77)	0.59 (0.94)	0.8740	0.0122
55	1.01 (0.96)	0.97 (0.87)	0.7749	0.5601
56	0.84 (0.68)	0.89 (1.04)	0.1890	0.4224
57	0.67 (0.87)	0.59 (0.87)	0.4791	0.2577

58	1.26 (0.94)	1.11 (0.88)	0.9551	0.4221
59	1.2 (0.88)	1.24 (0.92)	0.7093	0.8719
60	1.16 (0.83)	1.21 (0.96)	0.9906	0.7444
61	0.98 (0.76)	1.06 (0.69)	0.6245	0.9761
62	0.39 (0.89)	0.31 (0.79)	0.6164	0.2446
63	0.28 (0.87)	0.53 (0.81)	0.1504	0.9770
64	0.33 (0.73)	0.41 (0.89)	0.6612	0.9320
65	0.2 (0.87)	0.45 (0.95)	0.3374	0.6997
66	0.72 (0.61)	0.48 (0.67)	0.7027	0.0268
67	0.66 (0.74)	0.79 (0.66)	0.3168	0.8322
68	0.67 (0.58)	0.75 (0.74)	0.5664	0.9692
69	0.58 (0.57)	0.6 (0.61)	0.4972	0.5763
70	1.17 (1.53)	1.12 (1.21)	0.6639	0.5314
71	1.06 (1.34)	0.67 (1.64)	0.3453	0.1547
72	0.81 (1.78)	1.15 (1.03)	0.6154	0.7836
73	0.75 (1.29)	0.5 (1.36)	0.5546	0.3114
74	4.42 (8.6)	2.91 (8.04)	0.5898	0.1209
75	4.23 (8.8)	6.02 (7.87)	0.2529	0.8569
76	5.94 (8.68)	4.95 (9.53)	0.7019	0.3524
77	4.94 (9.54)	3.54 (8.59)	0.9921	0.4670
78	1.71 (10.69)	6.18 (12.46)	0.1620	0.6233
79	1.6 (10.44)	8.28 (11.13)	0.1459	0.1259
80	3.96 (11.54)	7.38 (13.64)	0.9557	0.1903
81	2.82 (11.74)	7.49 (14.86)	0.8166	0.1850
82	1476.17 (1026.46)	1144.72 (795.26)	0.0267	0.0000
83	371.32 (217.99)	275.29 (139.42)	0.2949	0.0548
84	9.5 (4.19)	10.08 (3.37)	0.1174	0.2922
85	1 (2.94%)	NA (NA%)	1.0000	1.0000
86	32 (94.12%)	38 (100%)	0.6947	0.0940
87	NA (NA%)	NA (NA%)	0.2830	0.2407
88	1 (2.94%)	NA (NA%)	0.8378	1.0000
89	NA (NA%)	NA (NA%)	1.0000	1.0000
90	2.12 (1.45)	1.29 (0.49)	0.6640	0.0097
91	25 (73.53%)	31 (81.58%)	1.0000	0.4992
92	9 (26.47%)	7 (18.42%)	1.0000	0.4992
93	18 (52.94%)	31 (81.58%)	0.0732	0.0000
94	16 (47.06%)	7 (18.42%)	0.0732	0.0000
95	22 (64.71%)	20 (52.63%)	0.0053	0.1089
96	12 (35.29%)	18 (47.37%)	0.0053	0.1089
97	7 (20.59%)	11 (28.95%)	0.0629	0.3177
98	27 (79.41%)	27 (71.05%)	0.0629	0.3177

	L5 vs L4 p_val
1	0.0041
2	0.6931
3	0.0079
4	0.1525
5	0.1974
6	0.0196
7	0.5186
8	0.0153
9	0.0692
10	0.2734
11	0.0171
12	0.7958

13	0.0782
14	0.0644
15	0.1761
16	0.1041
17	0.3987
18	0.0832
19	0.2205
20	0.1402
21	0.9633
22	0.9765
23	0.3680
24	0.9290
25	0.3631
26	0.0630
27	0.5873
28	0.0430
29	0.1445
30	0.1675
31	0.5650
32	0.2410
33	0.2390
34	0.0467
35	0.4955
36	0.0114
37	0.0326
38	0.0072
39	0.0653
40	0.1502
41	0.2703
42	0.7971
43	0.2102
44	0.8107
45	0.4931
46	0.0143
47	0.7458
48	0.3331
49	0.1611
50	0.0812
51	0.3376
52	0.5942
53	0.1870
54	0.0483
55	0.8538
56	0.8254
57	0.7397
58	0.5285
59	0.8640
60	0.7963
61	0.6645
62	0.7027
63	0.2357
64	0.6842
65	0.2971
66	0.1541

```
67          0.4972
68          0.6424
69          0.9193
70          0.9220
71          0.5028
72          0.5241
73          0.6369
74          0.4826
75          0.4010
76          0.6506
77          0.5778
78          0.1340
79          0.0169
80          0.2634
81          0.2031
82          0.1545
83          0.0322
84          0.5236
85          0.9553
86          0.4248
87            NaN
88          0.9553
89            NaN
90          0.0526
91          0.5918
92          0.5918
93          0.0188
94          0.0188
95          0.4248
96          0.4248
97          0.5856
98          0.5856
```

Before 2Y

Reinterventions

```
   group reiqs patients total
1: Iliac    85       44   142
2:    L4     3        3    38
3:    L5    19       10    34
4:   all   107       57   214
```

```
   p_val_all_Iliac p_val_all_L5 p_val_all_L4 p_val_Iliac_L5 p_val_Iliac_L4
1:          0.4404        0.896       0.0219              1         0.0076
   p_val_L5_L4
1:      0.0391
```

Impacts

```
   Complication Impact all_num all_patients Iliac_num Iliac_patients L5_num
```

1:	0	1	1	1	1	0
2:	Adverse Event	1	1	0	0	1
3:	Major Complication	126	65	99	50	23
4:	Minor Complication	129	85	107	67	16

	L5_patients	L4_num	L4_patients	all	Iliac	L5	L4	p_val_all_Iliac	p_val_all_L5
1:	0	0	0	214	142	34	38	1.0000	1.0000
2:	1	0	0	214	142	34	38	1.0000	0.6411
3:	12	4	3	214	142	34	38	0.4009	0.7066
4:	12	6	6	214	142	34	38	0.1989	0.7626

	p_val_all_L4	p_val_Iliac_L5	p_val_Iliac_L4	p_val_L5_L4
1:	1.0000	1.0000	1.0000	NaN
2:	1.0000	0.4358	NaN	0.9553
3:	0.0074	1.0000	0.0021	0.0102
4:	0.0081	0.2891	0.0009	0.1019

Categories

	Category of the complication	all_num	all_patients	Iliac_num
1:	Infectious complications	22	18	14
2:	Mechanical complications	134	87	111
3:	Other complications	72	47	58
4:	Peripheral neurologic complications	29	25	24

	Iliac_patients	L5_num	L5_patients	L4_num	L4_patients	all	Iliac	L5	L4
1:	12	7	5	1	1	214	142	34	38
2:	69	18	13	5	5	214	142	34	38
3:	36	11	8	3	3	214	142	34	38
4:	20	4	4	1	1	214	142	34	38

	p_val_all_Iliac	p_val_all_L5	p_val_all_L4	p_val_Iliac_L5	p_val_Iliac_L4
1:	1.0000	0.3913	0.3628	0.4319	0.3799
2:	0.1710	0.9371	0.0022	0.3703	0.0002
3:	0.5401	1.0000	0.0746	1.0000	0.0359
4:	0.6135	1.0000	0.1613	0.9395	0.0951

	p_val_L5_L4
1:	0.1546
2:	0.0292
3:	0.1303
4:	0.2902

Categories Major Complications

	Category of the complication	all_num	all_patients	Iliac_num
1:	Infectious complications	19	15	12
2:	Mechanical complications	72	46	60
3:	Other complications	28	21	24
4:	Peripheral neurologic complications	7	7	3

	Iliac_patients	L5_num	L5_patients	L4_num	L4_patients	all	Iliac	L5	L4
1:	10	6	4	1	1	214	142	34	38
2:	37	11	8	1	1	214	142	34	38
3:	18	3	2	1	1	214	142	34	38
4:	3	3	3	1	1	214	142	34	38

	p_val_all_Iliac	p_val_all_L5	p_val_all_L4	p_val_Iliac_L5	p_val_Iliac_L4
1:	1.0000	0.5344	0.5100	0.5746	0.5307

```
2:        0.3851      0.9655      0.0116      0.9326      0.0035
3:        0.5005      0.6776      0.2570      0.4120      0.1355
4:        0.7488      0.2893      1.0000      0.1583      1.0000
   p_val_L5_L4
1:    0.2902
2:    0.0203
3:    0.9216
4:    0.5288
```

Time to surgery

```
   treatment      mean        sd
1:     Iliac 152.88298 219.2905
2:        L5  84.78947 132.5584
3:        L4 205.44444 310.0275


   Iliac.L5   Iliac.L4       L5.L4
0.07975987 0.63149052 0.29045831
```

From 2Y - 5Y

Reinterventions

```
   group reiqs patients total
1: Iliac    31       20   142
2:    L4     3        3    38
3:    L5     7        4    34
4:   all    41       27   214


   p_val_all_Iliac p_val_all_L5 p_val_all_L4 p_val_Iliac_L5 p_val_Iliac_L4
1:          0.8098            1       0.5779         0.9395         0.4583
   p_val_L5_L4
1:      0.8769
```

Impacts

```
   Complication Impact all_num all_patients Iliac_num Iliac_patients L5_num
1:       Adverse Event       1            1         1              1      0
2:  Major Complication      43           29        32             21      8
3:  Minor Complication      24           23        22             21      1
   L5_patients L4_num L4_patients all Iliac L5 L4 p_val_all_Iliac p_val_all_L5
1:           0      0           0 214   142 34 38          1.0000       1.0000
2:           5      3           3 214   142 34 38          0.8624       1.0000
3:           1      1           1 214   142 34 38          0.3321       0.2636
   p_val_all_L4 p_val_Iliac_L5 p_val_Iliac_L4 p_val_L5_L4
1:       1.0000         1.0000         1.0000         NaN
2:       0.4835         1.0000         0.3999      0.5875
3:       0.2038         0.1124         0.0795      1.0000
```

Categories

```
          Category of the complication all_num all_patients Iliac_num
1:              Infectious complications       3            2         0
2:              Mechanical complications      61           44        51
3:                   Other complications       3            3         3
4: Peripheral neurologic complications        1            1         1
   Iliac_patients L5_num L5_patients L4_num L4_patients all Iliac L5 L4
1:              0      2           1      1           1 214   142 34 38
2:             36      7           6      3           2 214   142 34 38
3:              3      0           0      0           0 214   142 34 38
4:              1      0           0      0           0 214   142 34 38
   p_val_all_Iliac p_val_all_L5 p_val_all_L4 p_val_Iliac_L5 p_val_Iliac_L4
1:          0.6663       0.8809       0.9384         0.4358         0.4778
2:          0.3519       0.8703       0.0432         0.4698         0.0135
3:          0.9285       1.0000       1.0000         0.9066         0.8491
4:          1.0000       1.0000       1.0000         1.0000         1.0000
   p_val_L5_L4
1:      1.0000
2:      0.1958
3:         NaN
4:         NaN
```

Categories Major Complications

```
          Category of the complication all_num all_patients Iliac_num
1:              Infectious complications       3            2         0
2:              Mechanical complications      37           25        29
3:                   Other complications       2            2         2
4: Peripheral neurologic complications        1            1         1
   Iliac_patients L5_num L5_patients L4_num L4_patients all Iliac L5 L4
1:              0      2           1      1           1 214   142 34 38
2:             18      6           5      2           2 214   142 34 38
3:              2      0           0      0           0 214   142 34 38
4:              1      0           0      0           0 214   142 34 38
   p_val_all_Iliac p_val_all_L5 p_val_all_L4 p_val_Iliac_L5 p_val_Iliac_L4
1:          0.6663       0.8809       0.9384         0.4358         0.4778
2:          0.9079       0.8265       0.3711         0.9743         0.3169
3:          1.0000       1.0000       1.0000         1.0000         1.0000
4:          1.0000       1.0000       1.0000         1.0000         1.0000
   p_val_L5_L4
1:      1.0000
2:      0.3412
3:         NaN
4:         NaN
```

Time to surgery

```
   treatment     mean       sd
1:     Iliac 1260.590 342.8067
2:        L5 1071.167 356.0311
3:        L4 1062.333 405.6320
```

```
  Iliac.L5  Iliac.L4     L5.L4
0.2650976 0.4887689 0.9761206
```

Before 5Y

Reinterventions

```
   group reiqs patients total
1: Iliac   116       54   142
2:    L4     6        6    38
3:    L5    26       11    34
4:   all   148       71   214
```

```
   p_val_all_Iliac p_val_all_L5 p_val_all_L4 p_val_Iliac_L5 p_val_Iliac_L4
1:          0.4091            1       0.0508         0.6759         0.0169
   p_val_L5_L4
1:      0.1694
```

Impacts

Complication Impact	all_num	all_patients	Iliac_num	Iliac_patients	L5_num
1: 0	1	1	1	1	0
2: Adverse Event	2	2	1	1	1
3: Major Complication	169	79	131	60	31
4: Minor Complication	153	96	129	77	17

L5_patients	L4_num	L4_patients	all	Iliac	L5	L4	p_val_all_Iliac	p_val_all_L5
1: 0	0	0	214	142	34	38	1.0000	1.0000
2: 1	0	0	214	142	34	38	1.0000	0.8809
3: 13	7	6	214	142	34	38	0.3682	1.0000
4: 12	7	7	214	142	34	38	0.1046	0.3904

p_val_all_L4	p_val_Iliac_L5	p_val_Iliac_L4	p_val_L5_L4
1: 1.0000	1.0000	1.0000	NaN
2: 1.0000	0.8378	1.0000	0.9553
3: 0.0187	0.8155	0.0048	0.0588
4: 0.0040	0.0731	0.0002	0.1758

Categories

Category of the complication	all_num	all_patients	Iliac_num
1: Infectious complications	25	20	14
2: Mechanical complications	195	110	162
3: Other complications	75	49	61
4: Peripheral neurologic complications	30	26	25

Iliac_patients	L5_num	L5_patients	L4_num	L4_patients	all	Iliac	L5	L4
1: 12	9	6	2	2	214	142	34	38
2: 88	25	15	8	7	214	142	34	38
3: 38	11	8	3	3	214	142	34	38
4: 21	4	4	1	1	214	142	34	38

p_val_all_Iliac	p_val_all_L5	p_val_all_L4	p_val_Iliac_L5	p_val_Iliac_L4
1: 0.9204	0.2434	0.6102	0.2025	0.7561

```
2:         0.0634         0.5455         0.0003         0.0883         0.0000
3:         0.4810         1.0000         0.0590         0.8667         0.0248
4:         0.5752         1.0000         0.1433         0.8570         0.0795
   p_val_L5_L4
1:      0.1958
2:      0.0351
3:      0.1303
4:      0.2902
```

Categories Major Complications

```
          Category of the complication all_num all_patients Iliac_num
1:             Infectious complications      22           17        12
2:             Mechanical complications     109           61        89
3:                  Other complications      30           23        26
4: Peripheral neurologic complications       8            8         4
   Iliac_patients L5_num L5_patients L4_num L4_patients all Iliac L5 L4
1:             10      8           5      2           2 214   142 34 38
2:             47     17          11      3           3 214   142 34 38
3:             20      3           2      1           1 214   142 34 38
4:              4      3           3      1           1 214   142 34 38
   p_val_all_Iliac p_val_all_L5 p_val_all_L4 p_val_Iliac_L5 p_val_Iliac_L4
1:          0.9122       0.3353       0.8077         0.2732         0.9805
2:          0.4205       0.7981       0.0129         1.0000         0.0040
3:          0.4354       0.5696       0.2038         0.3124         0.0951
4:          0.8636       0.3737       1.0000         0.2621         1.0000
   p_val_L5_L4
1:      0.3412
2:      0.0204
3:      0.9216
4:      0.5288
```

Time to surgery

```
   treatment       mean        sd
1:     Iliac 269.25472 404.4329
2:        L5  84.78947 132.5584
3:        L4 419.66667 500.0084


   Iliac.L5      Iliac.L4         L5.L4
0.0003610619 0.3334575753 0.0424489602
```