Descriptive Stats

```r
for(name in colnames(clinical_data_0)){
  setnames(clinical_data_0, name, gsub("  ", " ", name, fixed=TRUE))
}
setnames(clinical_data_0, "6Y. Static Major Curve Cobb Angle", "6Y. Static Major curve Cobb angle")
```

```r
years_rad <- sapply(c("6W.", "2Y.", "3Y.", "5Y.", "6Y."), function(x) paste(x, vars$radiology), simplify
years_quality <- sapply(c("6M.", "2Y.", "3Y.", "5Y.", "6Y."), function(x) paste(x, vars$quality), simpli
quality_first <- paste(vars$quality, "_First Visit", sep="")

all_vars <- c(
  unlist(vars[c("demographics", "radiology", "surgery")]) %>% unique,
  '2 YEAR VISIT - Date of visit',
  '3 YEAR VISIT - Date of visit',
  '5 YEAR VISIT - Date of visit',
  '6 YEAR VISIT - Date of visit',
  'Code of the patient',
  'st1. Date of Stage',
  years_rad,
  years_quality,
  quality_first
)

clinical_data <- rbind(
  clinical_data_0[, .SD, .SDcols=all_vars][, type:='non-depuy'],
  clinical_data_1[, .SD, .SDcols=all_vars][, type:='depuy']
)

clinical_data[, `ASA classification` := as.character(`ASA classification`)]
```

Filters

```r
discarded_patients <- readLines('five_years/discarded_patients')

clinical_data %<>%
  .[, followup_2y :=
      !is.na(`2 YEAR VISIT - Date of visit`) |
      !is.na(`3 YEAR VISIT - Date of visit`)] %>%
  .[, followup_5y :=
      !is.na(`5 YEAR VISIT - Date of visit`) |
      !is.na(`6 YEAR VISIT - Date of visit`)]
```

- Number of Patients

```r
clinical_data[, .(total=`Code of the patient` %>% uniqueN), type]
```

```
        type total
1: non-depuy    708
2:     depuy    607
```

- Number of patients with visit in 2 years

```r
clinical_data[followup_2y==TRUE, .(total=`Code of the patient` %>% uniqueN), type]
```

```
        type total
1: non-depuy    465
2:     depuy    434
```

- Number of patients with visit in 5 years

```r
clinical_data[followup_5y==TRUE, .(total=`Code of the patient` %>% uniqueN), type]
```

```
        type total
1: non-depuy    220
2:     depuy    224
```

```r
# clinical_data %<>%
#   .[followup_2y==TRUE] %>%
#   .[`st1. Date of Stage` %>% as.Date() < as.Date('2016-6-1')]
```

Total Patients for the analysis

```r
clinical_data[, .(total=`Code of the patient` %>% uniqueN), type]
```

```
        type total
1: non-depuy    708
2:     depuy    607
```

Demographics

```
Age
[1] "stats"
        type     mean        sd   N
1: non-depuy 57.83637 20.09462 708
2:     depuy 52.94383 20.22508 607
[1] "p_val"
[1] 1.248359e-05
```

```
Gender
[1] "table_depuy"

Female    Male
```

```
   492    115
[1] "proportion_depuy"


    Female       Male
0.8105437 0.1894563
[1] "table_nondepuy"


Female   Male
   548    160
[1] "proportion_nondepuy"


    Female       Male
0.7740113 0.2259887
[1] "p_val_Male"
[1] 0.1197257
[1] "p_val_Female"
[1] 0.1197257


Prior Spine Surgery
[1] "table_depuy"


 No Yes
422 183
[1] "proportion_depuy"


        No       Yes
0.6975207 0.3024793
[1] "table_nondepuy"


 No Yes
454 254
[1] "proportion_nondepuy"


        No       Yes
0.6412429 0.3587571
[1] "p_val_No"
[1] 0.04436505
[1] "p_val_Yes"
[1] 0.03240516
[1] "p_val_NA"
[1] NaN


Height (cm)_First Visit
[1] "stats"
        type     mean        sd   N
1: non-depuy 162.7347 10.343566 686
2:     depuy 163.0033  9.156266 603
[1] "p_val"
[1] 0.6209816


Weight (kgs)_First Visit
```

```
[1] "stats"
         type     mean       sd   N
1: non-depuy 66.53130 14.00669 687
2:     depuy 65.88411 13.60750 604
[1] "p_val"
[1] 0.4004779


BMI_First Visit
[1] "stats"
         type     mean       sd   N
1: non-depuy 25.14070 4.906453 685
2:     depuy 24.76746 4.637766 602
[1] "p_val"
[1] 0.1611543


ASA classification
[1] "table_depuy"

  1   2   3   4
143 326 134   2
[1] "proportion_depuy"

          1           2           3           4
0.236363636 0.538842975 0.221487603 0.003305785
[1] "table_nondepuy"

  1   2   3
238 373  94
[1] "proportion_nondepuy"

        1         2         3
0.3375887 0.5290780 0.1333333
[1] "p_val_1"
[1] 7.914741e-05
[1] "p_val_2"
[1] 0.7525821
[1] "p_val_3"
[1] 3.649531e-05
[1] "p_val_NA"
[1] NaN
[1] "p_val_4"
[1] 0.4129196


Tobacco use_First Visit
[1] "table_depuy"

                   Current User:            Current User: 1 pack per day
                              1                                       29
       Current User: 2 packs per day Current User: 3 packs or more per day
                              1                                        5
  Current User: Less than 1pk per day                              Ex-User:
```

```
                             86                                        1
             Ex-User: 0-6 months            Ex-User: 1 year or greater
                             21                                        5
         Ex-User: 2 yrs or greater             Ex-User: 6-12 months
                             65                                        4
                  Ex-User: N,A,                                 Non-User
                              1                                      381
[1] "proportion_depuy"

                 Current User:           Current User: 1 pack per day
                   0.001666667                            0.048333333
     Current User: 2 packs per day Current User: 3 packs or more per day
                   0.001666667                            0.008333333
  Current User: Less than 1pk per day                         Ex-User:
                   0.143333333                            0.001666667
             Ex-User: 0-6 months             Ex-User: 1 year or greater
                   0.035000000                            0.008333333
         Ex-User: 2 yrs or greater              Ex-User: 6-12 months
                   0.108333333                            0.006666667
                  Ex-User: N,A,                                 Non-User
                   0.001666667                            0.635000000
[1] "table_nondepuy"

                 Current User:           Current User: 1 pack per day
                             2                                       36
     Current User: 2 packs per day Current User: Less than 1pk per day
                             4                                       78
                  Current User: N,A,            Ex-User: 0-6 months
                             1                                       19
          Ex-User: 1 year or greater       Ex-User: 2 yrs or greater
                             2                                       89
             Ex-User: 6-12 months                         Non-User
                             3                                      442
[1] "proportion_nondepuy"

                 Current User:           Current User: 1 pack per day
                   0.00295858                             0.05325444
     Current User: 2 packs per day Current User: Less than 1pk per day
                   0.00591716                             0.11538462
                  Current User: N,A,            Ex-User: 0-6 months
                   0.00147929                             0.02810651
          Ex-User: 1 year or greater       Ex-User: 2 yrs or greater
                   0.00295858                             0.13165680
             Ex-User: 6-12 months                         Non-User
                   0.00443787                             0.65384615
[1] "p_val_Non-User"
[1] 0.9447988
[1] "p_val_Current User: Less than 1pk per day"
[1] 0.1009141
[1] "p_val_Ex-User: 2 yrs or greater"
[1] 0.3365818
[1] "p_val_Current User: 1 pack per day"
[1] 0.8977011
[1] "p_val_NA"
```

```
[1] NaN
[1] "p_val_Ex-User: 0-6 months"
[1] 0.5119286
[1] "p_val_Current User: 2 packs per day"
[1] 0.4677121
[1] "p_val_Ex-User: 1 year or greater"
[1] 0.3347697
[1] "p_val_Ex-User: 6-12 months"
[1] 0.8380749
[1] "p_val_Current User:"
[1] 1
[1] "p_val_Current User: N,A,"
[1] 1
[1] "p_val_Ex-User:"
[1] 0.9385735
[1] "p_val_Current User: 3 packs or more per day"
[1] 0.04882052
[1] "p_val_Ex-User: N,A,"
[1] 0.9385735


ESSG Diagnosis
[1] "table_depuy"

                  Congenital                    Degenerative
                          11                             255
                 Failed-back                      Idiopathic
                          32                             253
                Neuromuscular Other: radiotherapy induced
                           7                               1
     Other: Spondylolisthesis                  Post-infection
                           7                               2
              Post-traumatic                     Scheuermann
                          12                              19
                    Syndromic
                           8
[1] "proportion_depuy"

                  Congenital                    Degenerative
                 0.018121911                     0.420098847
                 Failed-back                      Idiopathic
                 0.052718287                     0.416803954
                Neuromuscular Other: radiotherapy induced
                 0.011532125                     0.001647446
     Other: Spondylolisthesis                  Post-infection
                 0.011532125                     0.003294893
              Post-traumatic                     Scheuermann
                 0.019769357                     0.031301483
                    Syndromic
                 0.013179572
[1] "table_nondepuy"

                          Congenital                                  Degenerative
                                  16                                           269
```

```
        Degenerative, Failed-back                          Failed-back
                             1                                    41
                    Idiopathic                  Idiopathic, Congenital
                           298                                     1
        Idiopathic, Degenerative                         Neuromuscular
                             3                                     5
                        Other:           Other:  Isthmic Spondilolisthesis
                             2                                     1
  Other: degenerative spondilolisthesis Other: multiple Myelom, Multiple Myelom
                             2                                     1
    Other: Myelon compression at level C3            Other: Neglected Scoliosis
                             1                                     1
              Other: spondylolisthesis                        Post-infection
                             2                                     2
                   Post-traumatic                          Scheuermann
                            21                                    29
         Scheuermann, Failed-back                            Syndromic
                             1                                     6
```
[1] "proportion_nondepuy"

```
                       Congenital                          Degenerative
                      0.022759602                           0.382645804
        Degenerative, Failed-back                          Failed-back
                      0.001422475                           0.058321479
                       Idiopathic                 Idiopathic, Congenital
                      0.423897582                           0.001422475
        Idiopathic, Degenerative                         Neuromuscular
                      0.004267425                           0.007112376
                           Other:          Other:  Isthmic Spondilolisthesis
                      0.002844950                           0.001422475
  Other: degenerative spondilolisthesis Other: multiple Myelom, Multiple Myelom
                      0.002844950                           0.001422475
    Other: Myelon compression at level C3            Other: Neglected Scoliosis
                      0.001422475                           0.001422475
              Other: spondylolisthesis                        Post-infection
                      0.002844950                           0.002844950
                   Post-traumatic                          Scheuermann
                      0.029871977                           0.041251778
         Scheuermann, Failed-back                            Syndromic
                      0.001422475                           0.008534851
```
[1] "p_val_Idiopathic"
[1] 0.9249771
[1] "p_val_Degenerative"
[1] 0.1537987
[1] "p_val_Neuromuscular"
[1] 0.5762034
[1] "p_val_Scheuermann"
[1] 0.433265
[1] "p_val_Failed-back"
[1] 0.7725312
[1] "p_val_Post-infection"
[1] 1
[1] "p_val_Syndromic"
[1] 0.5759764

```
[1] "p_val_Post-traumatic"
[1] 0.3338311
[1] "p_val_Congenital"
[1] 0.7071553
[1] "p_val_Other: spondylolisthesis"
[1] 0.5480287
[1] "p_val_Scheuermann, Failed-back"
[1] 1
[1] "p_val_Idiopathic, Degenerative"
[1] 0.3049546
[1] "p_val_Other:  Isthmic Spondilolisthesis"
[1] 1
[1] "p_val_Other: degenerative spondilolisthesis"
[1] 0.5480287
[1] "p_val_Other: multiple Myelom, Multiple Myelom"
[1] 1
[1] "p_val_Idiopathic, Congenital"
[1] 1
[1] "p_val_Other:"
[1] 0.5480287
[1] "p_val_NA"
[1] NaN
[1] "p_val_Other: Neglected Scoliosis"
[1] 1
[1] "p_val_Degenerative, Failed-back"
[1] 1
[1] "p_val_Other: Myelon compression at level C3"
[1] 1
[1] "p_val_Other: radiotherapy induced"
[1] 0.9385735
[1] "p_val_Other: Spondylolisthesis"
[1] 0.01295732
```

```
Surgical Approach
[1] "table_depuy"
```

Anterior	Anterior-Posterior
1	17
Anterior-Posterior-Posterior	Posterior
2	557
Posterior-Anterior	Posterior-Anterior-Posterior
8	3
Posterior-Posterior	
6	

```
[1] "proportion_depuy"
```

Anterior	Anterior-Posterior
0.001683502	0.028619529
Anterior-Posterior-Posterior	Posterior
0.003367003	0.937710438
Posterior-Anterior	Posterior-Anterior-Posterior
0.013468013	0.005050505
Posterior-Posterior	

```
                    0.010101010
[1] "table_nondepuy"
< table of extent 0 >
[1] "proportion_nondepuy"
numeric(0)
[1] "p_val_NA"
[1] NaN
[1] "p_val_Posterior"
[1] 2.808888e-246
[1] "p_val_Anterior-Posterior"
[1] 2.263624e-05
[1] "p_val_Posterior-Anterior"
[1] 0.006762052
[1] "p_val_Posterior-Posterior"
[1] 0.02501955
[1] "p_val_Posterior-Anterior-Posterior"
[1] 0.1960029
[1] "p_val_Anterior-Posterior-Posterior"
[1] 0.4129196
[1] "p_val_Anterior"
[1] 0.9385735
```

Radiology

```
Static Major curve Cobb angle
[1] "stats"
        type     mean       sd    N
1: non-depuy 44.36239 24.19432 675
2:     depuy 42.86437 20.89644 584
[1] "p_val"
[1] 0.2386984
```

```
6W. Static Major curve Cobb angle
[1] "stats"
        type     mean       sd    N
1: non-depuy 21.68337 16.28217 504
2:     depuy 21.49699 14.75974 501
[1] "p_val"
[1] 0.8492326
```

```
6W. Static Major curve Cobb angle_gain
[1] "stats"
        type      mean       sd    N
1: non-depuy -21.79823 16.35110 504
2:     depuy -21.94874 16.14629 500
[1] "p_val"
[1] 0.8833609
```

```
2Y. Static Major curve Cobb angle
[1] "stats"
```

```
        type      mean        sd   N
1: non-depuy 22.91434 17.10265 318
2:     depuy 23.76009 16.60168 328
[1] "p_val"
[1] 0.5240329
```

2Y. Static Major curve Cobb angle_gain
```
[1] "stats"
         type      mean        sd   N
1: non-depuy -21.82868 16.01571 318
2:     depuy -20.28916 15.97700 321
[1] "p_val"
[1] 0.2242824
```

5Y. Static Major curve Cobb angle
```
[1] "stats"
        type      mean        sd   N
1: non-depuy 24.32068 17.19197 118
2:     depuy 21.94943 17.06364 123
[1] "p_val"
[1] 0.2837769
```

5Y. Static Major curve Cobb angle_gain
```
[1] "stats"
        type      mean        sd   N
1: non-depuy -24.90653 14.81683 118
2:     depuy -21.20274 15.46698 117
[1] "p_val"
[1] 0.06215152
```

Static Major curve Cobb angle tests
preop vs 6w p-value
2.436011e-142
6w vs 2y p-value
0.06080443

6w vs 5y p-value
0.1430244
2y vs 5y p-value
0.8346571

Static Major curve Cobb angle
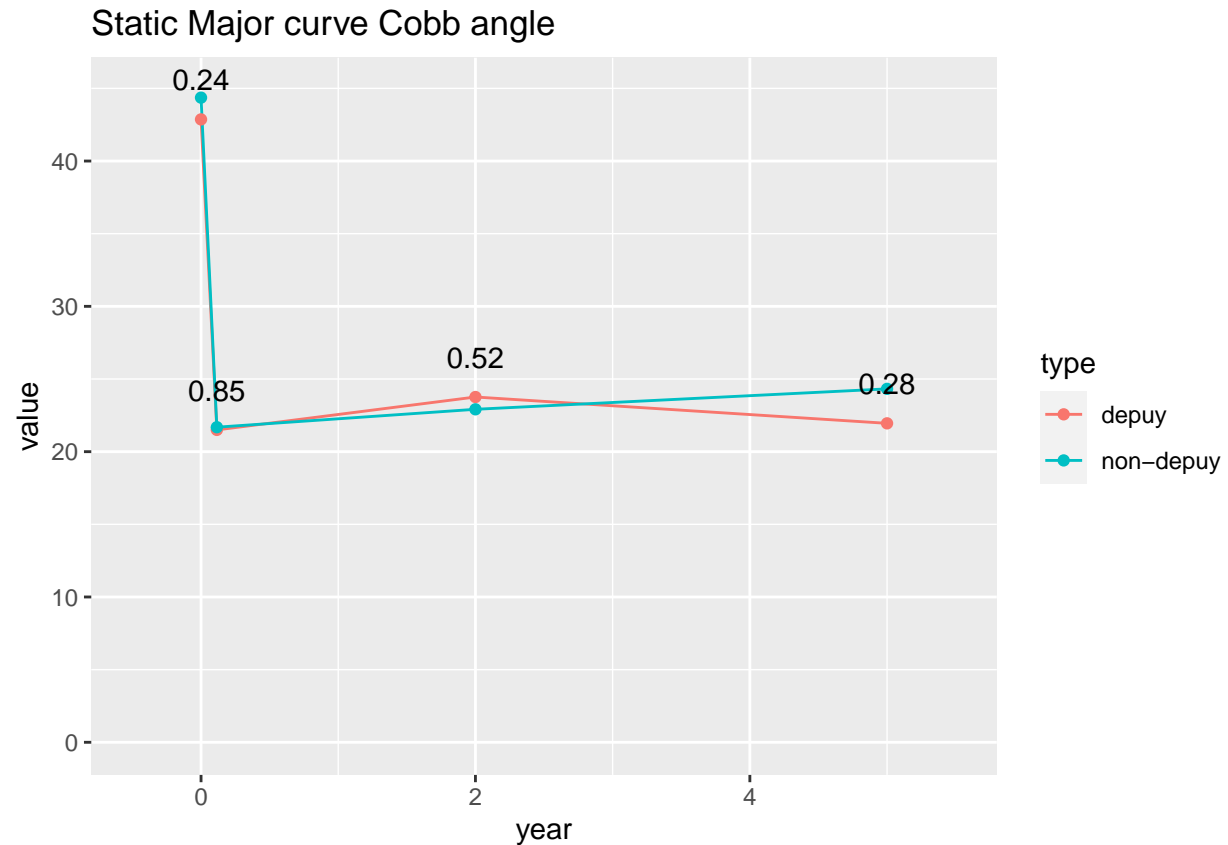

```
Coronal Balance (C7PL to CSVL)
[1] "stats"
        type      mean       sd   N
1: non-depuy -2.110114 32.77221 613
2:     depuy 19.308445 19.48480 553
[1] "p_val"
[1] 2.134864e-39


6W. Coronal Balance (C7PL to CSVL)
[1] "stats"
        type      mean       sd   N
1: non-depuy -2.839075 22.80934 562
2:     depuy 17.570397 15.00860 453
[1] "p_val"
[1] 1.355742e-57


6W. Coronal Balance (C7PL to CSVL)_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy -1.046336 31.69382 524
2:     depuy -3.360210 21.64344 428
[1] "p_val"
[1] 0.1827393
```

```
2Y. Coronal Balance (C7PL to CSVL)
[1] "stats"
        type        mean        sd    N
1: non-depuy   0.1902162  22.92483  370
2:     depuy  17.5619935  14.25361  306
[1] "p_val"
[1] 3.720295e-30


2Y. Coronal Balance (C7PL to CSVL)_gain
[1] "stats"
        type       mean        sd    N
1: non-depuy   0.883125  32.75930  336
2:     depuy  -5.711367  22.98568  278
[1] "p_val"
[1] 0.003613273


5Y. Coronal Balance (C7PL to CSVL)
[1] "stats"
        type      mean        sd    N
1: non-depuy   1.28947  25.56989  132
2:     depuy  17.90891  15.11040  119
[1] "p_val"
[1] 1.322709e-09


5Y. Coronal Balance (C7PL to CSVL)_gain
[1] "stats"
        type       mean        sd    N
1: non-depuy   3.715752  32.54136  113
2:     depuy  -4.596330  20.95687  109
[1] "p_val"
[1] 0.0242772


Coronal Balance (C7PL to CSVL) tests
preop vs 6w p-value
0.1075987
6w vs 2y p-value
0.0914539

6w vs 5y p-value
0.08459377
2y vs 5y p-value
0.5397886
```

Coronal Balance (C7PL to CSVL)
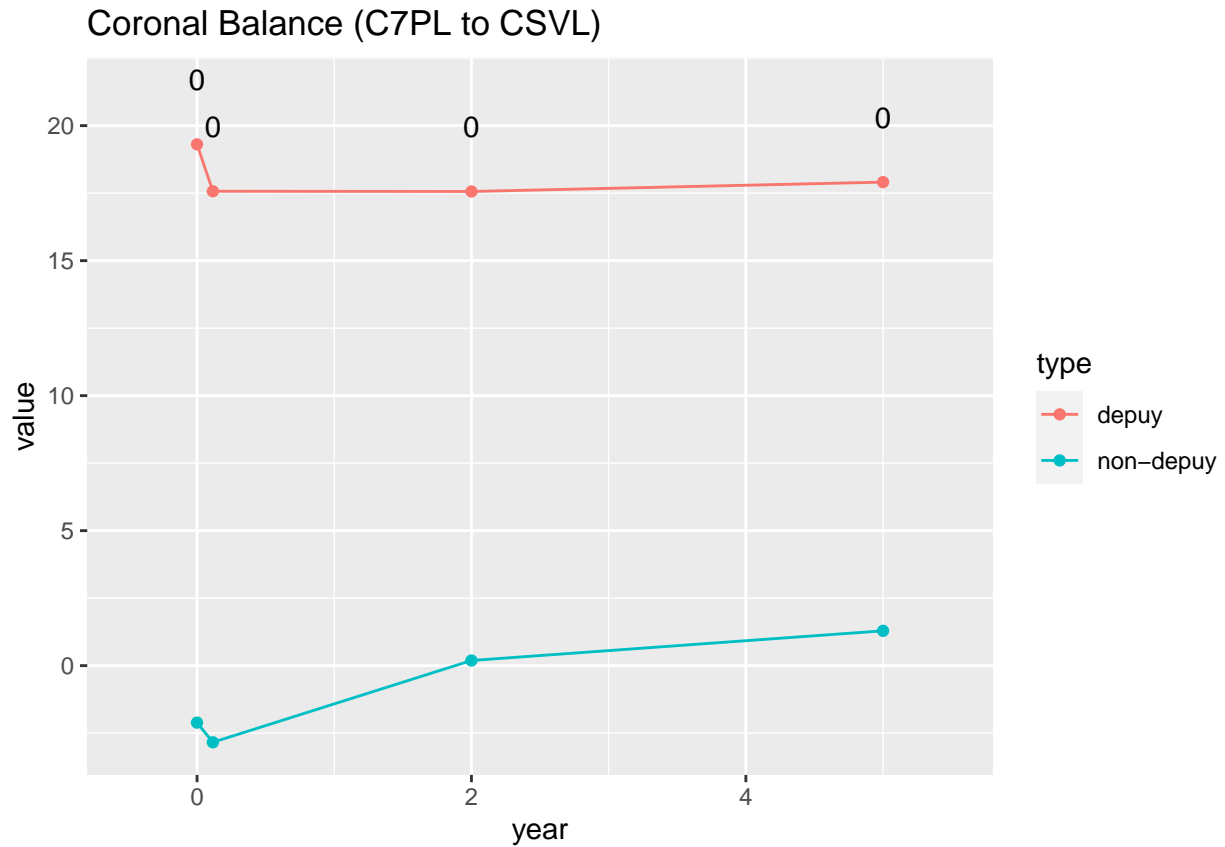

```
Sagittal Balance
[1] "stats"
       type     mean       sd    N
1: non-depuy 45.93500 65.20117 614
2:     depuy 44.97592 62.20977 568
[1] "p_val"
[1] 0.795861


6W. Sagittal Balance
[1] "stats"
       type     mean       sd    N
1: non-depuy 22.15484 43.65378 552
2:     depuy 24.52501 41.99866 457
[1] "p_val"
[1] 0.3809602


6W. Sagittal Balance_gain
[1] "stats"
       type      mean       sd    N
1: non-depuy -23.76010 56.36124 522
2:     depuy -20.75197 52.61448 442
[1] "p_val"
[1] 0.3921963
```

```
2Y. Sagittal Balance
[1] "stats"
        type     mean       sd   N
1: non-depuy 27.98486 49.55393 370
2:     depuy 31.65234 49.40656 308
[1] "p_val"
[1] 0.3368717


2Y. Sagittal Balance_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy -18.55854 50.22705 336
2:     depuy -22.43747 54.60227 293
[1] "p_val"
[1] 0.3566843


5Y. Sagittal Balance
[1] "stats"
        type     mean       sd   N
1: non-depuy 32.88341 55.04733 132
2:     depuy 37.09203 51.03832 118
[1] "p_val"
[1] 0.5311292


5Y. Sagittal Balance_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy   3.157155 53.45279 116
2:     depuy -15.076161 56.17881 112
[1] "p_val"
[1] 0.01281272


Sagittal Balance tests
preop vs 6w p-value
8.958862e-22
6w vs 2y p-value
0.02015148

6w vs 5y p-value
0.007969747
2y vs 5y p-value
0.2775359
```

Sagittal Balance
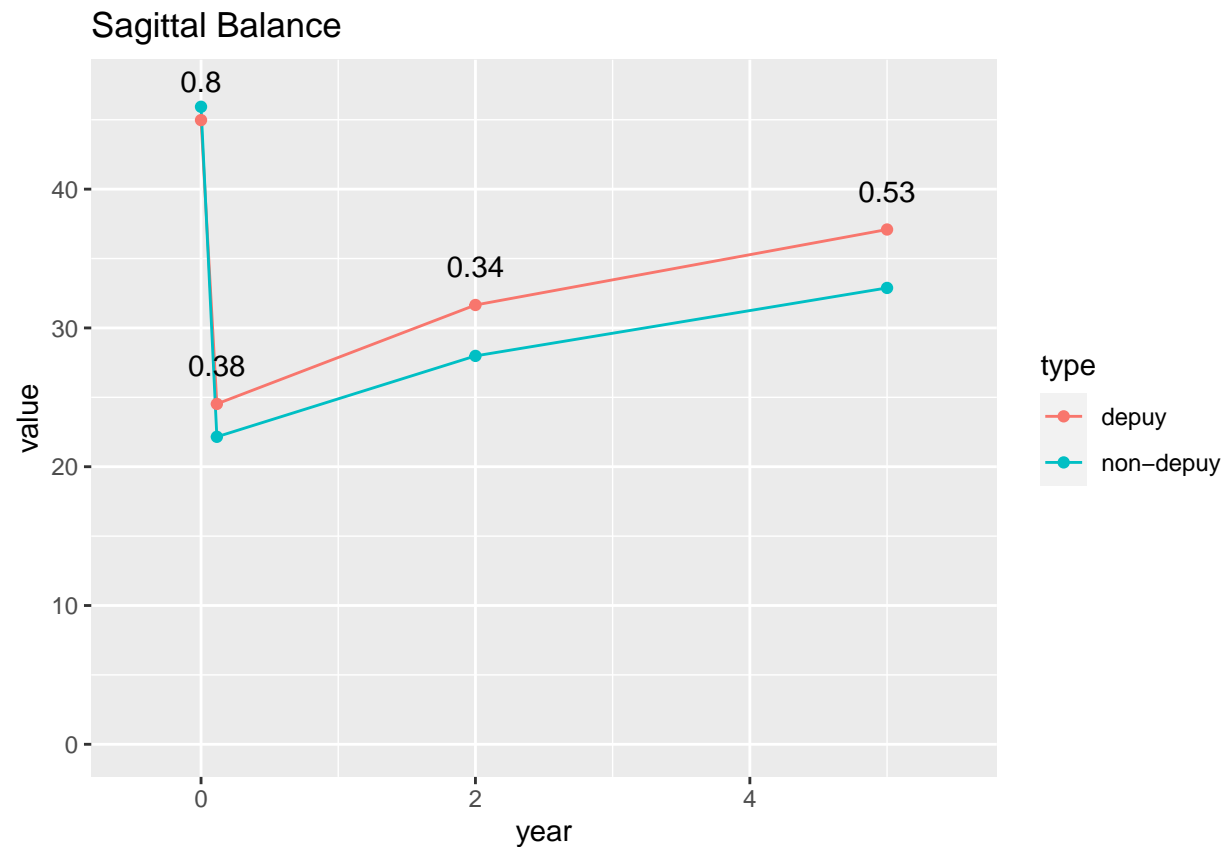

```
Sagittal T2-T5
[1] "stats"
        type     mean       sd   N
1: non-depuy 12.48101 9.404714 662
2:     depuy 12.50871 9.145658 572
[1] "p_val"
[1] 0.9582566


6W. Sagittal T2-T5
[1] "stats"
        type     mean       sd   N
1: non-depuy 15.10976 9.258677 585
2:     depuy 14.36206 9.015173 470
[1] "p_val"
[1] 0.1861744


6W. Sagittal T2-T5_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 2.673827 9.557150 567
2:     depuy 2.314891 9.450032 458
[1] "p_val"
[1] 0.5476366
```

```
2Y. Sagittal T2-T5
[1] "stats"
        type     mean       sd   N
1: non-depuy 15.56174 10.18195 386
2:     depuy 14.71123 10.50006 316
[1] "p_val"
[1] 0.2794929


2Y. Sagittal T2-T5_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 3.927649 10.74667 370
2:     depuy 2.583213 10.17804 305
[1] "p_val"
[1] 0.09633101


5Y. Sagittal T2-T5
[1] "stats"
        type     mean       sd   N
1: non-depuy 16.27652 11.75618 138
2:     depuy 14.79765 10.62994 119
[1] "p_val"
[1] 0.2907135


5Y. Sagittal T2-T5_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 5.095263 12.87734 133
2:     depuy 4.674741 11.12120 116
[1] "p_val"
[1] 0.7823939


Sagittal T2-T5 tests
preop vs 6w p-value
3.966434e-09
6w vs 2y p-value
0.3541087

6w vs 5y p-value
0.2564397
2y vs 5y p-value
0.6027092
```
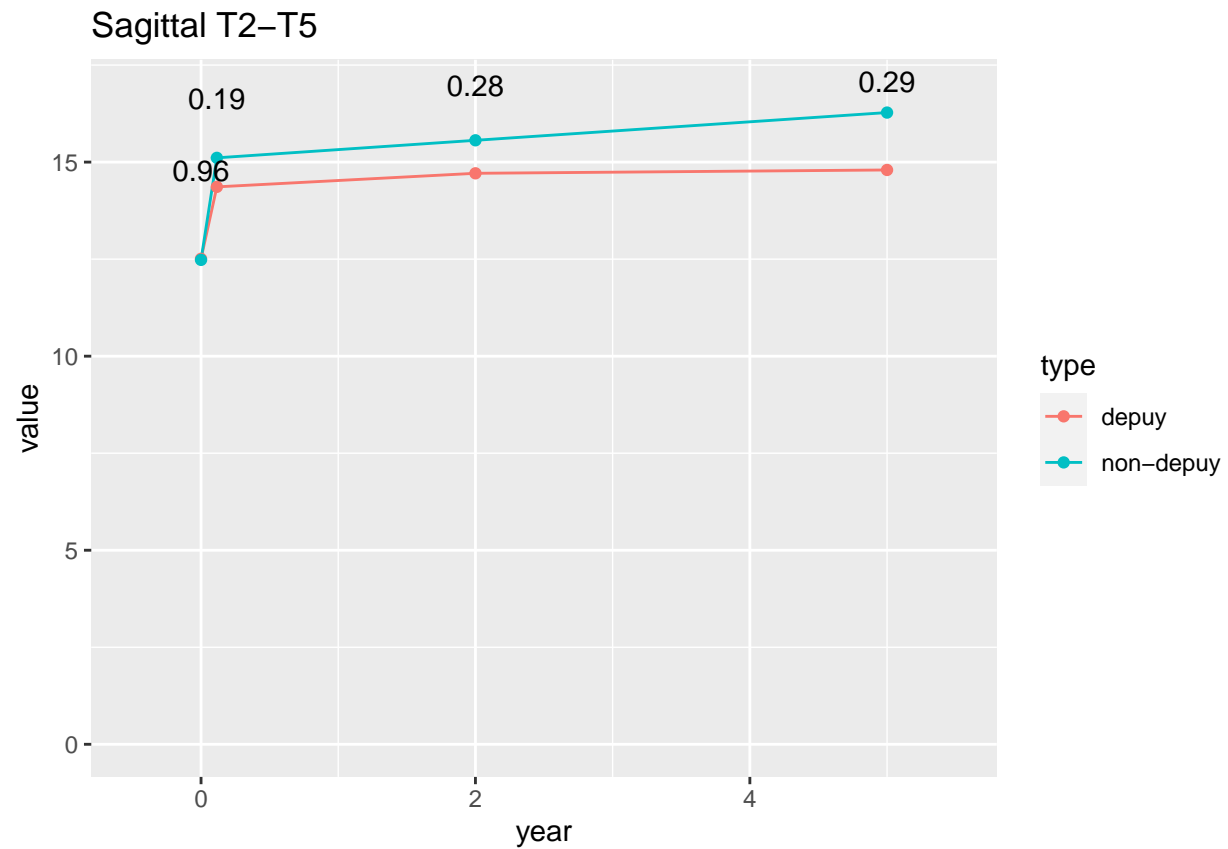
Sagittal T2–T5


```
Sagittal T5-T12
[1] "stats"
       type     mean       sd   N
1: non-depuy 33.23830 19.47755 670
2:     depuy 32.38092 18.45926 577
[1] "p_val"
[1] 0.425508


6W. Sagittal T5-T12
[1] "stats"
       type     mean       sd   N
1: non-depuy 34.41262 14.99174 587
2:     depuy 35.03893 13.95783 475
[1] "p_val"
[1] 0.4820281


6W. Sagittal T5-T12_gain
[1] "stats"
       type     mean       sd   N
1: non-depuy 1.365348 16.42628 574
2:     depuy 2.418688 14.67813 465
[1] "p_val"
[1] 0.2758501
```

```
2Y. Sagittal T5-T12
[1] "stats"
        type     mean       sd   N
1: non-depuy 37.64482 15.28221 388
2:     depuy 37.23522 17.43119 316
[1] "p_val"
[1] 0.7433396


2Y. Sagittal T5-T12_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 4.543651 17.52242 378
2:     depuy 5.343160 16.57964 307
[1] "p_val"
[1] 0.5408652


5Y. Sagittal T5-T12
[1] "stats"
        type     mean       sd   N
1: non-depuy 39.59842 14.89986 139
2:     depuy 39.96178 16.58605 118
[1] "p_val"
[1] 0.8546976


5Y. Sagittal T5-T12_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 6.142279 18.68396 136
2:     depuy 7.419224 18.55009 116
[1] "p_val"
[1] 0.5877269


Sagittal T5-T12 tests
preop vs 6w p-value
0.008154523
6w vs 2y p-value
0.0002288439

6w vs 5y p-value
7.065969e-07
2y vs 5y p-value
0.02241809
```
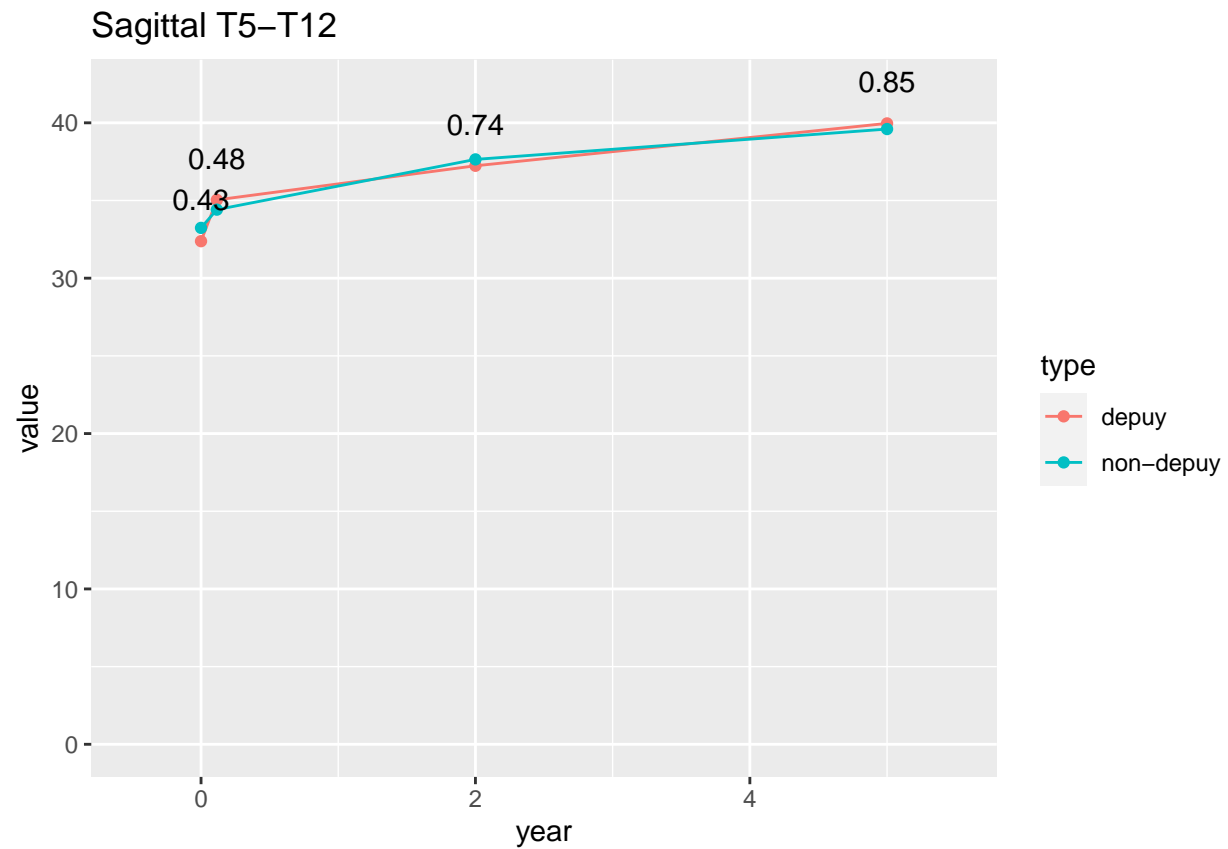
Sagittal T5–T12


```
Sagittal T2-T12
[1] "stats"
        type     mean       sd    N
1: non-depuy 39.56366 20.66489  669
2:     depuy 39.65363 19.30111  576
[1] "p_val"
[1] 0.9367573


6W. Sagittal T2-T12
[1] "stats"
        type     mean       sd    N
1: non-depuy 44.52691 16.56919  589
2:     depuy 44.42667 15.19923  471
[1] "p_val"
[1] 0.9183854


6W. Sagittal T2-T12_gain
[1] "stats"
        type     mean       sd    N
1: non-depuy 5.097210 15.29901  577
2:     depuy 5.375758 14.20213  462
[1] "p_val"
[1] 0.7615574
```

```
2Y. Sagittal T2-T12
[1] "stats"
        type     mean       sd   N
1: non-depuy 47.81359 16.82056 387
2:     depuy 46.85584 17.39140 317
[1] "p_val"
[1] 0.460909


2Y. Sagittal T2-T12_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 8.965491 15.39057 377
2:     depuy 7.887249 14.79748 309
[1] "p_val"
[1] 0.3514009


5Y. Sagittal T2-T12
[1] "stats"
        type     mean       sd   N
1: non-depuy 49.27848 17.14254 138
2:     depuy 49.14824 16.38521 119
[1] "p_val"
[1] 0.9504584


5Y. Sagittal T2-T12_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 10.75919 17.21489 135
2:     depuy 11.34983 16.87533 116
[1] "p_val"
[1] 0.7843935


Sagittal T2-T12 tests
preop vs 6w p-value
9.839834e-11
6w vs 2y p-value
0.0005178739

6w vs 5y p-value
2.398692e-05
2y vs 5y p-value
0.0800603
```

Sagittal T2–T12
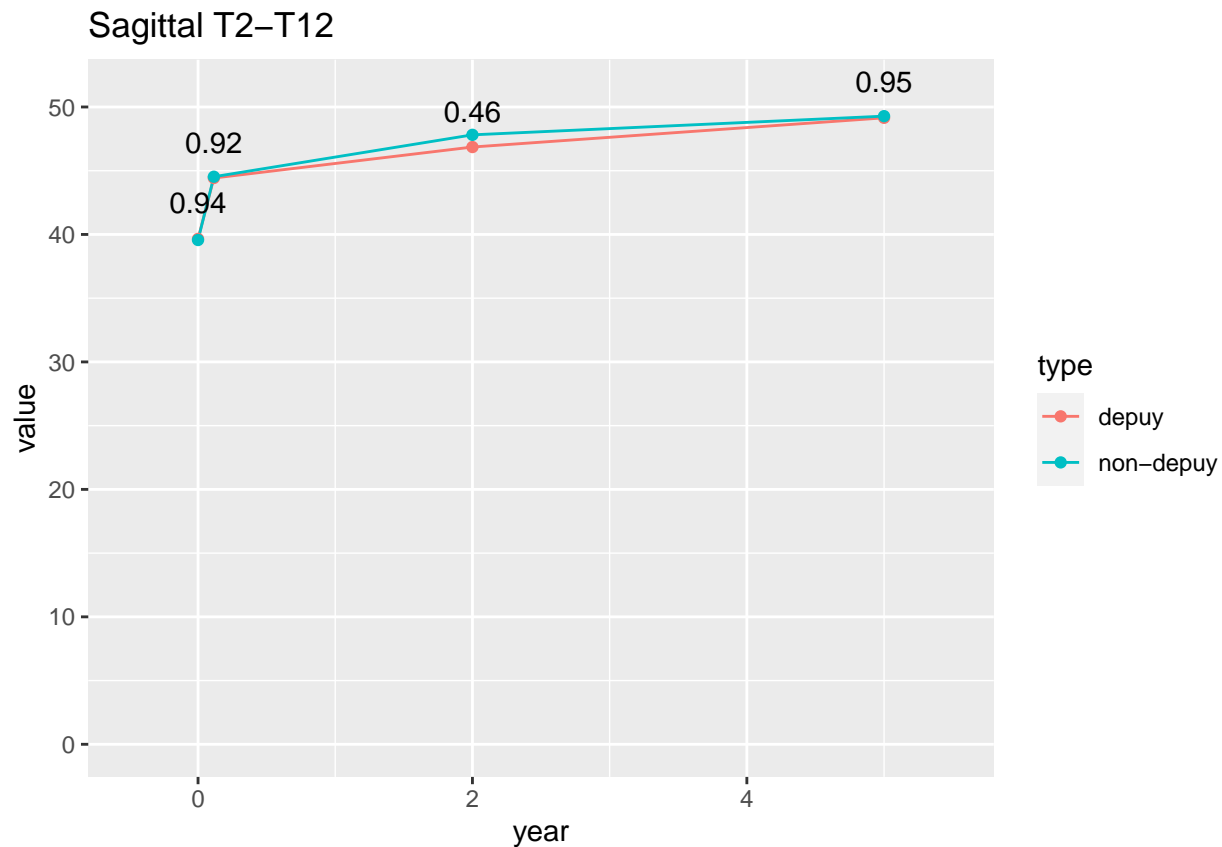

```
Lordosis (top of L1-S1)
[1] "stats"
        type      mean       sd   N
1: non-depuy -44.80025 21.42113 679
2:     depuy -45.13301 20.91009 594
[1] "p_val"
[1] 0.7794846


6W. Lordosis (top of L1-S1)
[1] "stats"
        type      mean       sd   N
1: non-depuy -51.95593 13.40999 605
2:     depuy -51.21122 14.96732 548
[1] "p_val"
[1] 0.3756549


6W. Lordosis (top of L1-S1)_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy -6.972836 18.94441 596
2:     depuy -6.347006 16.62581 541
[1] "p_val"
[1] 0.5531771
```

```
2Y. Lordosis (top of L1-S1)
[1] "stats"
        type      mean       sd   N
1: non-depuy -52.19054 13.98271 390
2:     depuy -51.13858 16.47677 337
[1] "p_val"
[1] 0.3578091


2Y. Lordosis (top of L1-S1)_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy -8.472552 16.87173 384
2:     depuy -7.794773 16.09173 331
[1] "p_val"
[1] 0.5831094


5Y. Lordosis (top of L1-S1)
[1] "stats"
        type      mean       sd   N
1: non-depuy -50.76813 14.04305 139
2:     depuy -51.05476 15.15191 124
[1] "p_val"
[1] 0.8741892


5Y. Lordosis (top of L1-S1)_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy -5.332847 17.75179 137
2:     depuy -8.751626 18.42126 123
[1] "p_val"
[1] 0.1297685


Lordosis (top of L1-S1) tests
preop vs 6w p-value
1.133129e-19
6w vs 2y p-value
0.5388385

6w vs 5y p-value
0.8217871
2y vs 5y p-value
0.5420214
```

Lordosis (top of L1–S1)
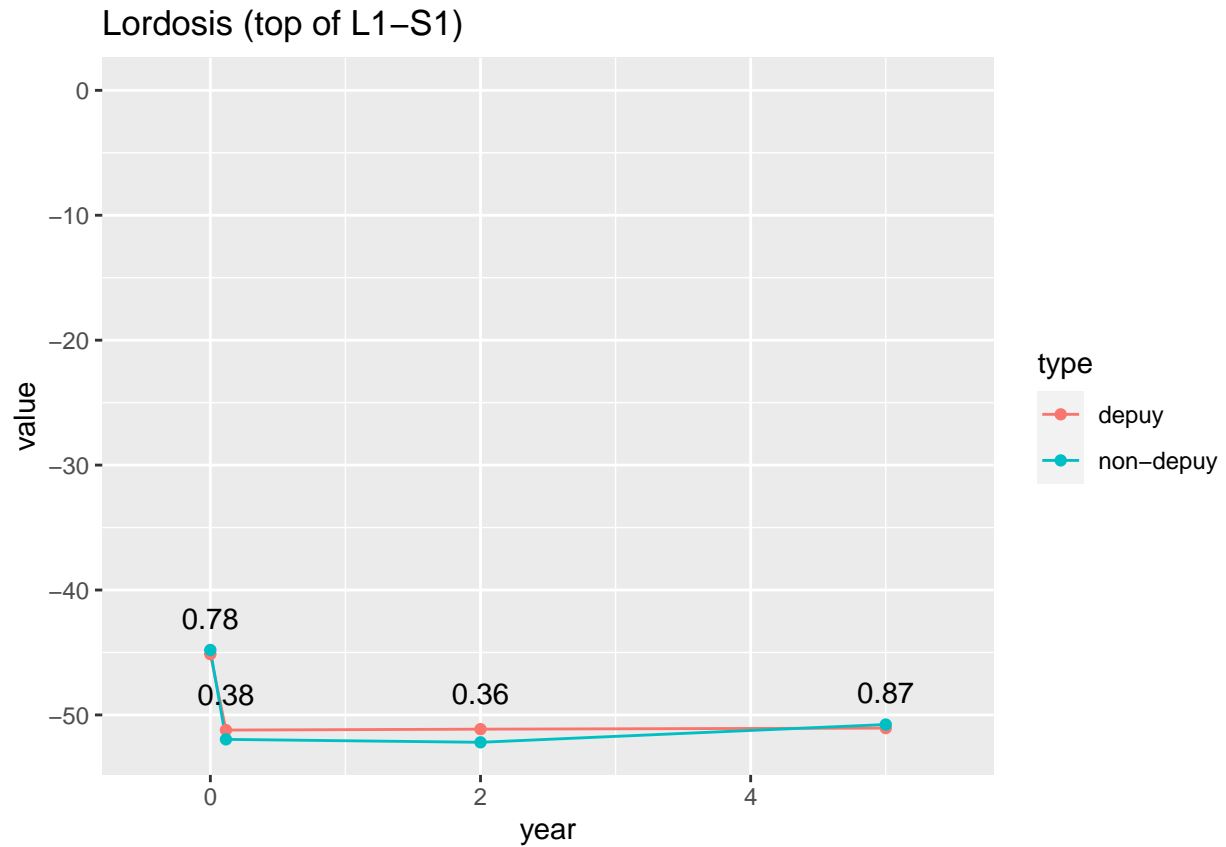

```
Pelvic Incidence
[1] "stats"
       type     mean       sd   N
1: non-depuy 55.43425 13.61167 676
2:     depuy 55.51809 13.66750 592
[1] "p_val"
[1] 0.9130672


6W. Pelvic Incidence
[1] "stats"
       type     mean       sd   N
1: non-depuy 54.78519 13.17158 603
2:     depuy 55.22147 13.45122 545
[1] "p_val"
[1] 0.5795483


6W. Pelvic Incidence_gain
[1] "stats"
       type       mean       sd   N
1: non-depuy -0.7953885 6.666532 592
2:     depuy -0.1420408 4.708153 539
[1] "p_val"
[1] 0.05554822
```

```
2Y. Pelvic Incidence
[1] "stats"
        type     mean       sd   N
1: non-depuy 54.92371 13.24926 391
2:     depuy 55.77700 13.90671 333
[1] "p_val"
[1] 0.4007055


2Y. Pelvic Incidence_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy -0.4097650 6.643331 383
2:     depuy -0.0502454 6.449325 326
[1] "p_val"
[1] 0.4658854


5Y. Pelvic Incidence
[1] "stats"
        type     mean       sd   N
1: non-depuy 54.85230 12.68385 139
2:     depuy 55.31153 12.53537 124
[1] "p_val"
[1] 0.7682902


5Y. Pelvic Incidence_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy  0.9657664 7.251167 137
2:     depuy -0.4164463 6.790776 121
[1] "p_val"
[1] 0.1152507


Pelvic Incidence tests
preop vs 6w p-value
0.3803853
6w vs 2y p-value
0.4822046

6w vs 5y p-value
0.8258005
2y vs 5y p-value
0.7898455
```

Pelvic Incidence
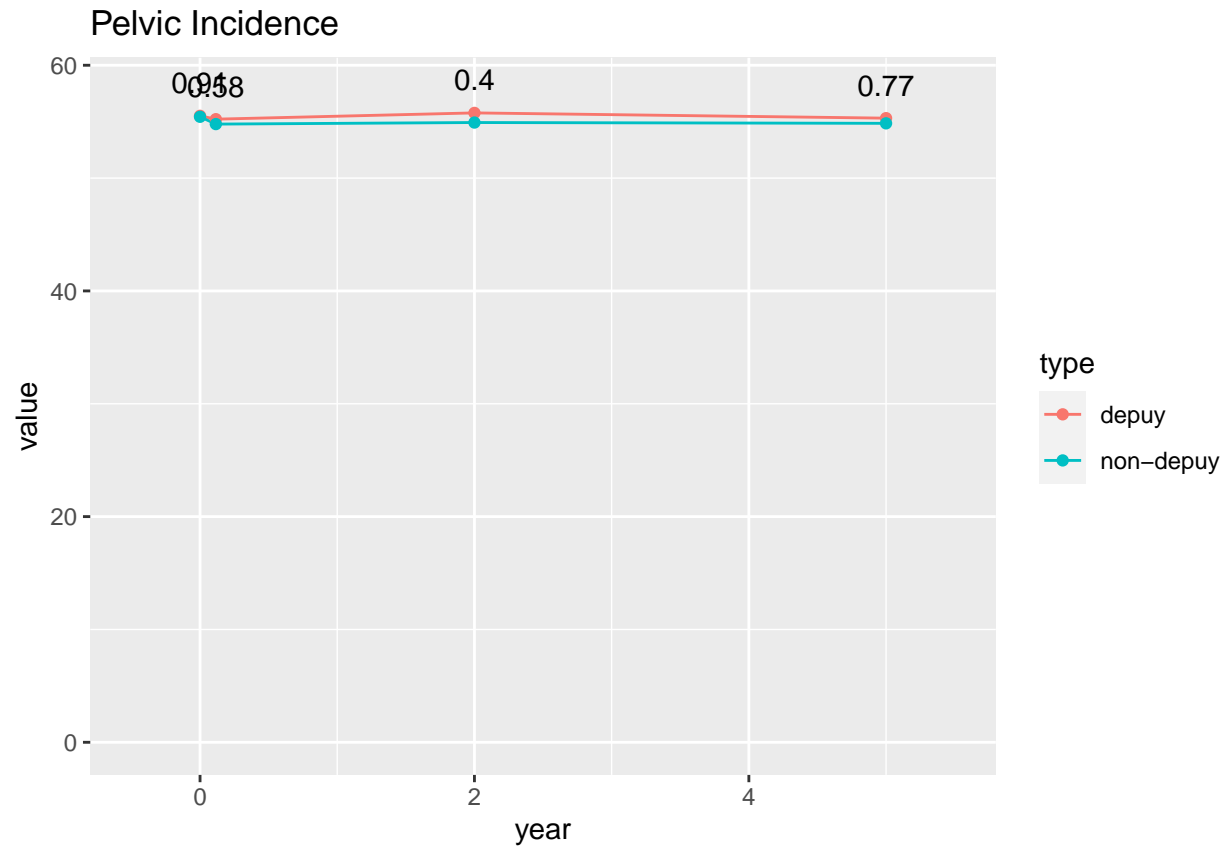

```
Pelvic Tilt
[1] "stats"
        type     mean       sd   N
1: non-depuy 22.13464 12.32511 676
2:     depuy 21.43678 11.12938 587
[1] "p_val"
[1] 0.2906154


6W. Pelvic Tilt
[1] "stats"
        type     mean        sd   N
1: non-depuy 19.38943 10.155262 601
2:     depuy 19.33743  9.993358 545
[1] "p_val"
[1] 0.9304485


6W. Pelvic Tilt_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy -2.908407 9.149188 590
2:     depuy -1.911161 8.068856 534
[1] "p_val"
[1] 0.05243285
```

```
2Y. Pelvic Tilt
[1] "stats"
        type     mean        sd   N
1: non-depuy 20.25488 10.670345 391
2:     depuy 20.60578  9.787104 332
[1] "p_val"
[1] 0.6450334


2Y. Pelvic Tilt_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy -2.383499 7.874392 383
2:     depuy -1.718669 7.635000 323
[1] "p_val"
[1] 0.2562584


5Y. Pelvic Tilt
[1] "stats"
        type     mean       sd   N
1: non-depuy 21.09504 10.65766 139
2:     depuy 22.14379 10.28706 124
[1] "p_val"
[1] 0.4178745


5Y. Pelvic Tilt_gain
[1] "stats"
        type       mean       sd   N
1: non-depuy -0.7278102 7.566012 137
2:     depuy -1.0628571 8.544927 119
[1] "p_val"
[1] 0.741763


Pelvic Tilt tests
preop vs 6w p-value
4.472544e-08
6w vs 2y p-value
0.07188894

6w vs 5y p-value
0.002942876
2y vs 5y p-value
0.09188182
```

Pelvic Tilt
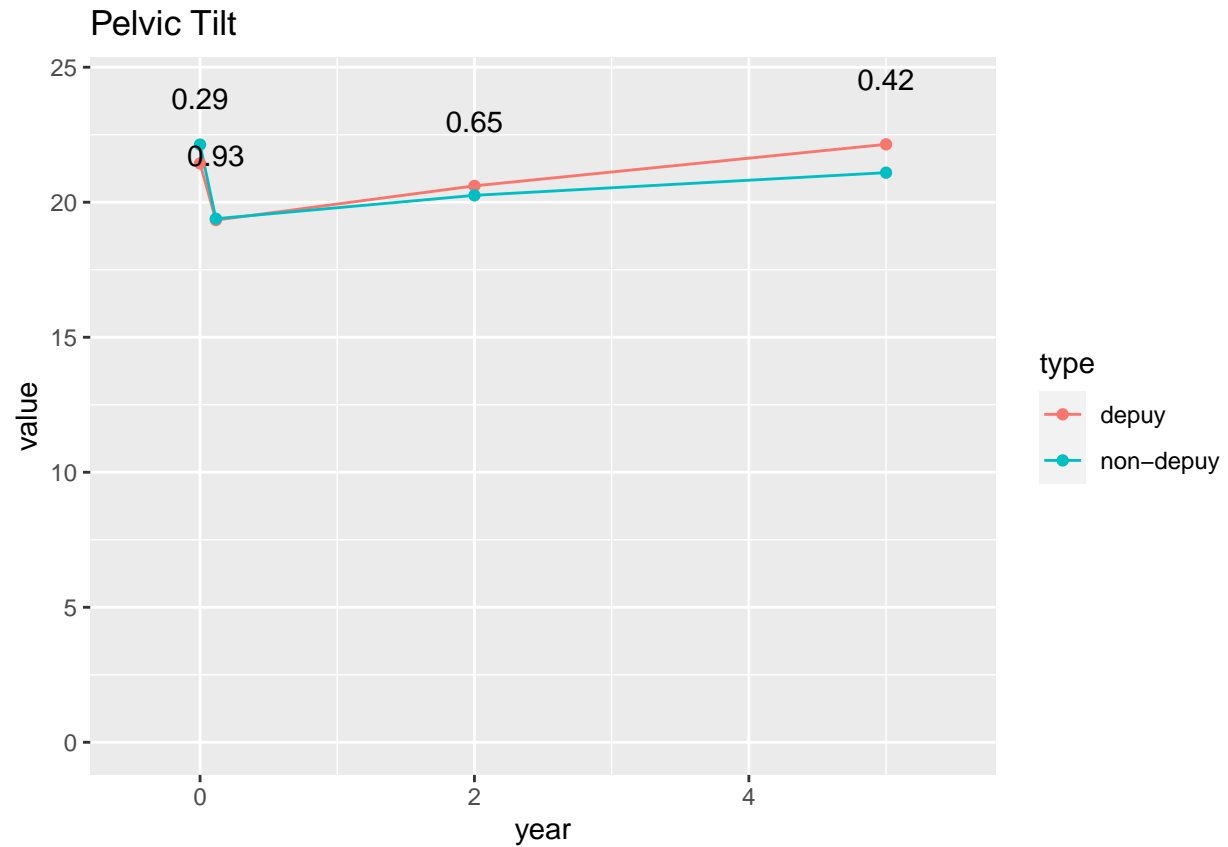

```
Sacral Slope
[1] "stats"
        type     mean       sd   N
1: non-depuy 33.29675 12.17869 676
2:     depuy 34.25767 11.57239 592
[1] "p_val"
[1] 0.1502653


6W. Sacral Slope
[1] "stats"
        type     mean       sd   N
1: non-depuy 35.43952 10.17779 604
2:     depuy 35.82747 10.37749 546
[1] "p_val"
[1] 0.5230315


6W. Sacral Slope_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 2.101417 9.306530 593
2:     depuy 1.729017 7.748025 539
[1] "p_val"
[1] 0.4631213
```

```
2Y. Sacral Slope
[1] "stats"
        type      mean        sd    N
1: non-depuy 34.67422 10.61040 391
2:     depuy 35.22150 11.30361 333
[1] "p_val"
[1] 0.5044855


2Y. Sacral Slope_gain
[1] "stats"
        type      mean        sd    N
1: non-depuy 1.986945 8.104432 383
2:     depuy 1.686319 7.457975 326
[1] "p_val"
[1] 0.6074299


5Y. Sacral Slope
[1] "stats"
        type      mean        sd    N
1: non-depuy 33.75727  9.955354 139
2:     depuy 33.16798 10.023534 124
[1] "p_val"
[1] 0.6334413


5Y. Sacral Slope_gain
[1] "stats"
        type      mean        sd    N
1: non-depuy 1.6795620 8.558838 137
2:     depuy 0.6131405 8.927114 121
[1] "p_val"
[1] 0.3298998


Sacral Slope tests
preop vs 6w p-value
3.237972e-05
6w vs 2y p-value
0.4411086

6w vs 5y p-value
0.00553193
2y vs 5y p-value
0.0386457
```

Sacral Slope
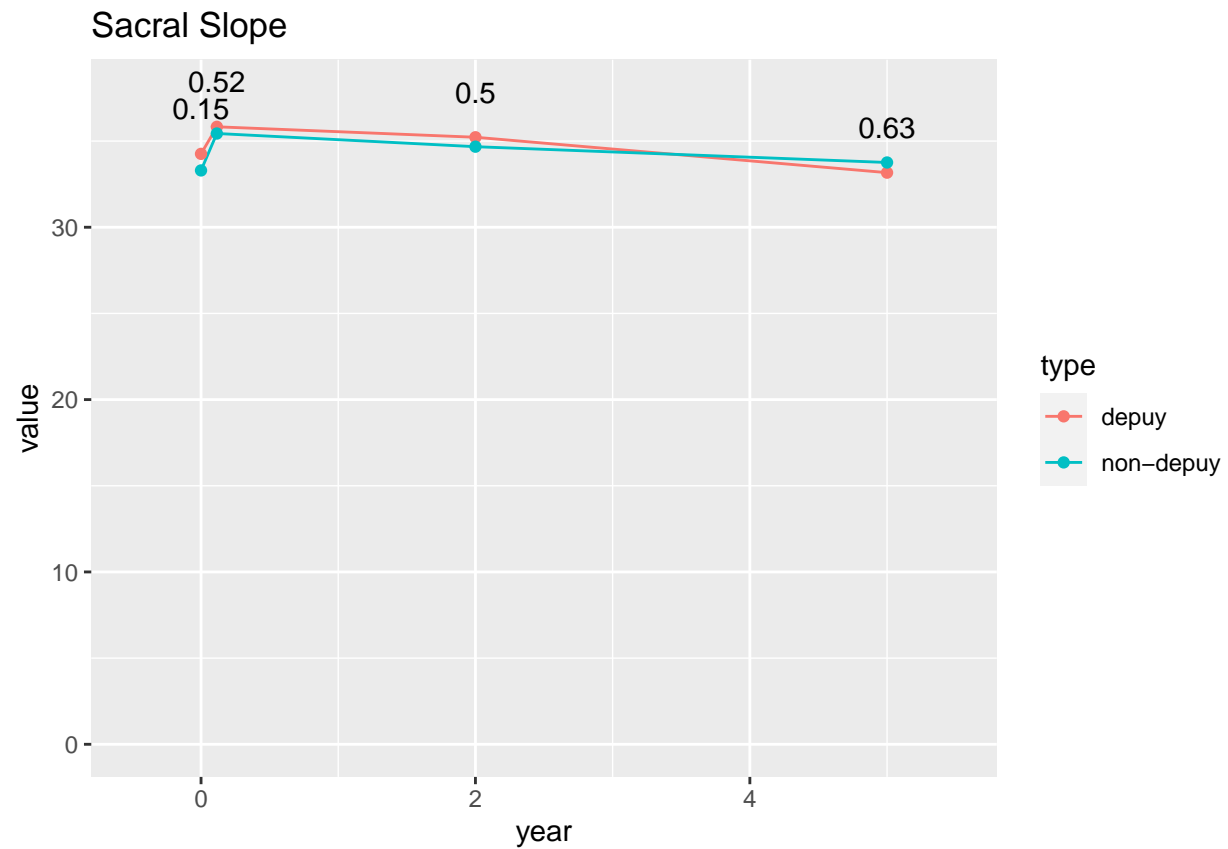

```
RLL
[1] "stats"
        type      mean       sd   N
1: non-depuy -18.56555 21.68261 676
2:     depuy -18.21864 19.86133 590
[1] "p_val"
[1] 0.7664974


6W. RLL
[1] "stats"
        type      mean       sd   N
1: non-depuy -10.95968 12.98841 603
2:     depuy -12.02615 13.74310 543
[1] "p_val"
[1] 0.1785149


6W. RLL_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 7.565456 19.00238 592
2:     depuy 6.430748 16.68432 535
[1] "p_val"
[1] 0.2860563
```

```
2Y. RLL
[1] "stats"
        type      mean       sd   N
1: non-depuy -10.83508 13.52447 390
2:     depuy -12.40243 14.90113 333
[1] "p_val"
[1] 0.1418438


2Y. RLL_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 8.776728 16.82602 382
2:     depuy 7.841994 16.50441 326
[1] "p_val"
[1] 0.4568807


5Y. RLL
[1] "stats"
        type       mean        sd   N
1: non-depuy  -7.969209  8.714709 139
2:     depuy -12.238790 13.894083 124
[1] "p_val"
[1] 0.003618436


5Y. RLL_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 9.039343 16.59770 137
2:     depuy 8.869752 17.64139 121
[1] "p_val"
[1] 0.9369219


RLL tests
preop vs 6w p-value
2.569608e-22
6w vs 2y p-value
0.8065577

6w vs 5y p-value
0.01269021
2y vs 5y p-value
0.03625756
```

RLL
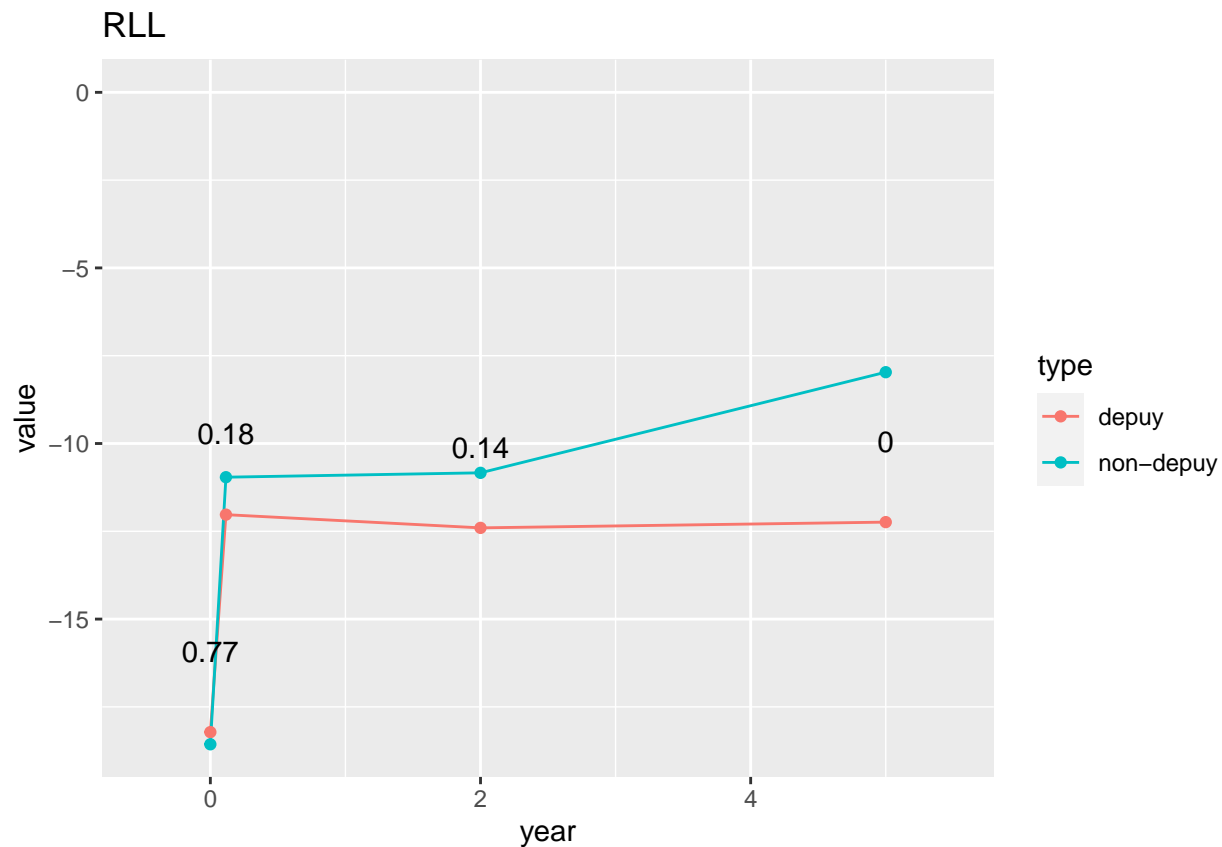
Global Tilt
[1] "stats"
```
        type     mean       sd   N
1: non-depuy 26.79206 18.90093 671
2:     depuy 25.74227 17.18257 578
```
[1] "p_val"
[1] 0.3042337

6W. Global Tilt
[1] "stats"
```
        type     mean       sd   N
1: non-depuy 20.38339 13.12953 596
2:     depuy 20.78461 12.80033 508
```
[1] "p_val"
[1] 0.6080831

6W. Global Tilt_gain
[1] "stats"
```
        type      mean       sd   N
1: non-depuy -6.488419 14.49564 582
2:     depuy -5.194858 12.85741 492
```
[1] "p_val"
[1] 0.1215857

```
2Y. Global Tilt
[1] "stats"
        type     mean       sd   N
1: non-depuy 22.26659 14.85555 390
2:     depuy 22.98753 13.62072 320
[1] "p_val"
[1] 0.5008117


2Y. Global Tilt_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy -5.192263 12.28077 380
2:     depuy -4.771307 12.47332 306
[1] "p_val"
[1] 0.6583342


5Y. Global Tilt
[1] "stats"
        type     mean       sd   N
1: non-depuy 24.05971 16.34820 139
2:     depuy 25.15427 14.84556 124
[1] "p_val"
[1] 0.5698269


5Y. Global Tilt_gain
[1] "stats"
        type       mean       sd   N
1: non-depuy -0.4932353 12.43249 136
2:     depuy -3.4402521 13.01312 119
[1] "p_val"
[1] 0.06667658


Global Tilt tests
preop vs 6w p-value
1.105323e-18
6w vs 2y p-value
0.01116087

6w vs 5y p-value
0.000423094
2y vs 5y p-value
0.06570454
```

Global Tilt
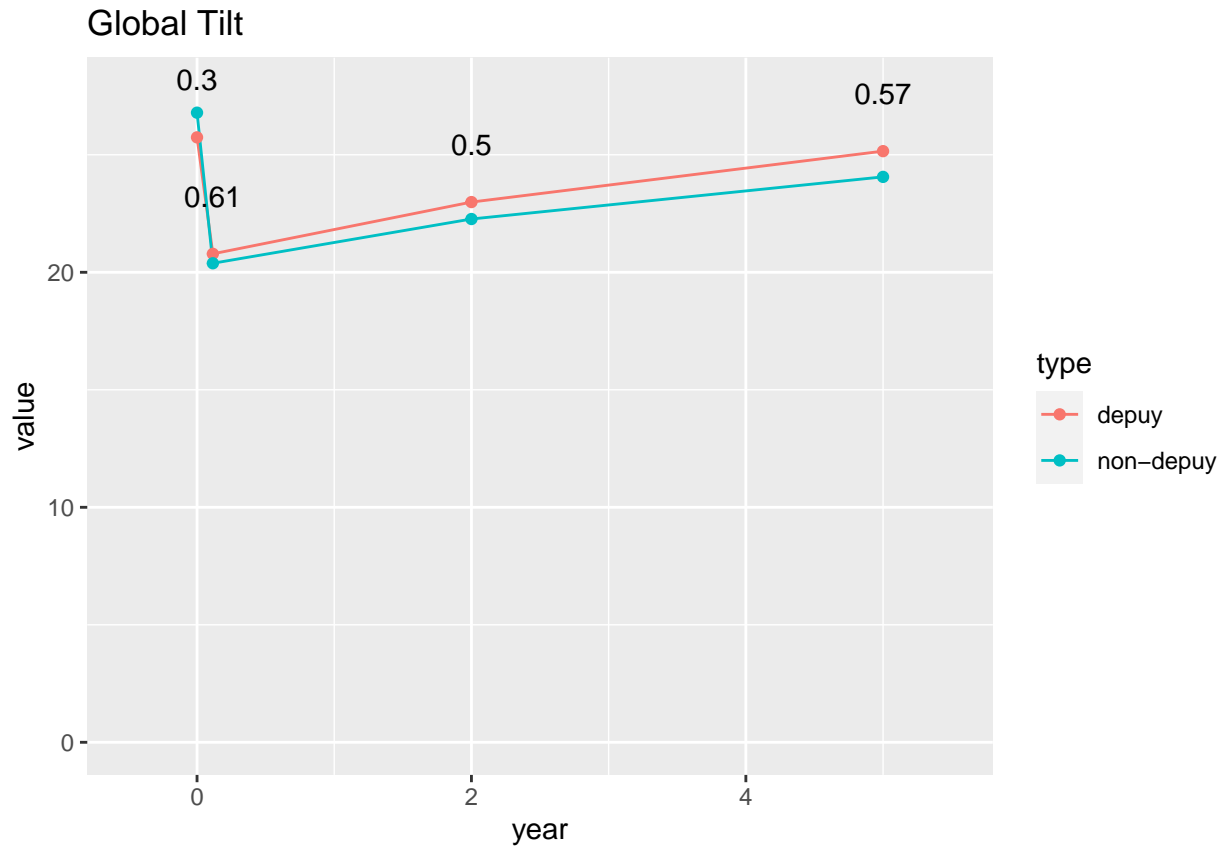

```
T1 Sagittal Tilt
[1] "stats"
        type      mean       sd   N
1: non-depuy -1.523356 6.274839 669
2:     depuy -1.444341 5.716108 564
[1] "p_val"
[1] 0.8171891



6W. T1 Sagittal Tilt
[1] "stats"
        type      mean       sd   N
1: non-depuy -3.639741 4.435440 590
2:     depuy -2.842739 4.118429 500
[1] "p_val"
[1] 0.002172613



6W. T1 Sagittal Tilt_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy -2.152370 5.914496 573
2:     depuy -1.663291 5.290167 471
[1] "p_val"
[1] 0.1591036
```

```
2Y. T1 Sagittal Tilt
[1] "stats"
          type      mean        sd   N
1: non-depuy -3.484971 4.536758 387
2:     depuy -2.754630 4.558218 317
[1] "p_val"
[1] 0.03440654


2Y. T1 Sagittal Tilt_gain
[1] "stats"
          type      mean        sd   N
1: non-depuy -2.066324 5.493613 375
2:     depuy -1.770763 5.891477 293
[1] "p_val"
[1] 0.5078076


5Y. T1 Sagittal Tilt
[1] "stats"
          type      mean        sd   N
1: non-depuy -3.074978 6.837598 139
2:     depuy -2.573321 4.507531 124
[1] "p_val"
[1] 0.4788204


5Y. T1 Sagittal Tilt_gain
[1] "stats"
          type       mean        sd   N
1: non-depuy -0.2189718 7.094676 135
2:     depuy -1.5197164 5.854654 115
[1] "p_val"
[1] 0.1135534


T1 Sagittal Tilt tests
preop vs 6w p-value
1.932362e-16
6w vs 2y p-value
0.6837244

6w vs 5y p-value
0.4889125
2y vs 5y p-value
0.654123
```

T1 Sagittal Tilt
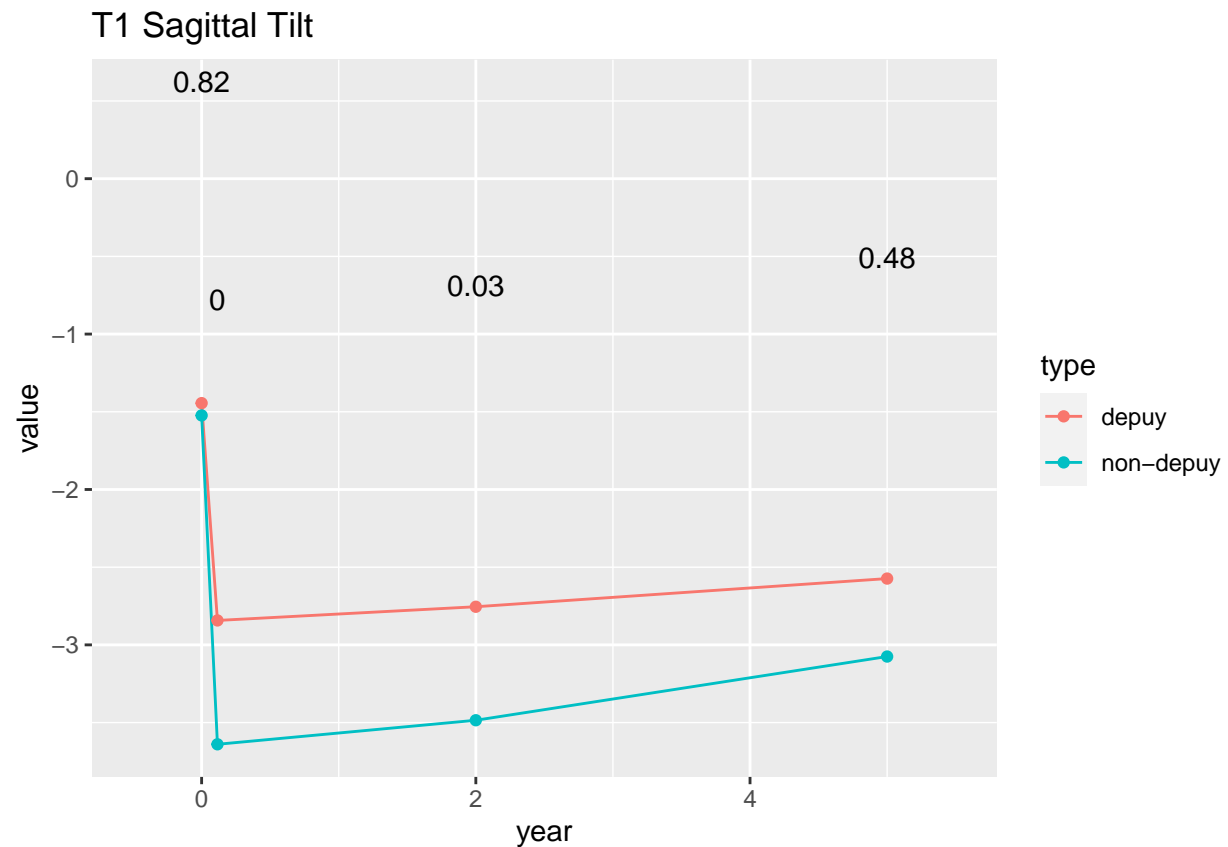

```
Thoracolumbar L2-T10
[1] "stats"
        type     mean       sd   N
1: non-depuy 8.748074 22.15590 675
2:     depuy 8.726948 20.04044 580
[1] "p_val"
[1] 0.9858568


6W. Thoracolumbar L2-T10
[1] "stats"
        type     mean       sd   N
1: non-depuy 4.339323 14.33571 591
2:     depuy 6.085481 12.10950 489
[1] "p_val"
[1] 0.03023791


6W. Thoracolumbar L2-T10_gain
[1] "stats"
        type      mean      sd   N
1: non-depuy -4.478086 20.6670 580
2:     depuy -3.460698 18.3898 473
[1] "p_val"
[1] 0.3985908
```

```
2Y. Thoracolumbar L2-T10
[1] "stats"
        type     mean       sd   N
1: non-depuy 6.424627 14.57278 389
2:     depuy 8.214845 13.13377 322
[1] "p_val"
[1] 0.0856286


2Y. Thoracolumbar L2-T10_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy -3.233115 21.67637 382
2:     depuy -2.733269 18.18290 312
[1] "p_val"
[1] 0.7412505


5Y. Thoracolumbar L2-T10
[1] "stats"
        type     mean       sd   N
1: non-depuy 5.826978 13.80133 139
2:     depuy 8.416860 13.60817 121
[1] "p_val"
[1] 0.1295967


5Y. Thoracolumbar L2-T10_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy -7.711022 20.86051 137
2:     depuy -3.565167 20.45552 120
[1] "p_val"
[1] 0.109507


Thoracolumbar L2-T10 tests
preop vs 6w p-value
6.723832e-07
6w vs 2y p-value
0.008678556

6w vs 5y p-value
0.08293567
2y vs 5y p-value
0.9659049
```

Thoracolumbar L2–T10
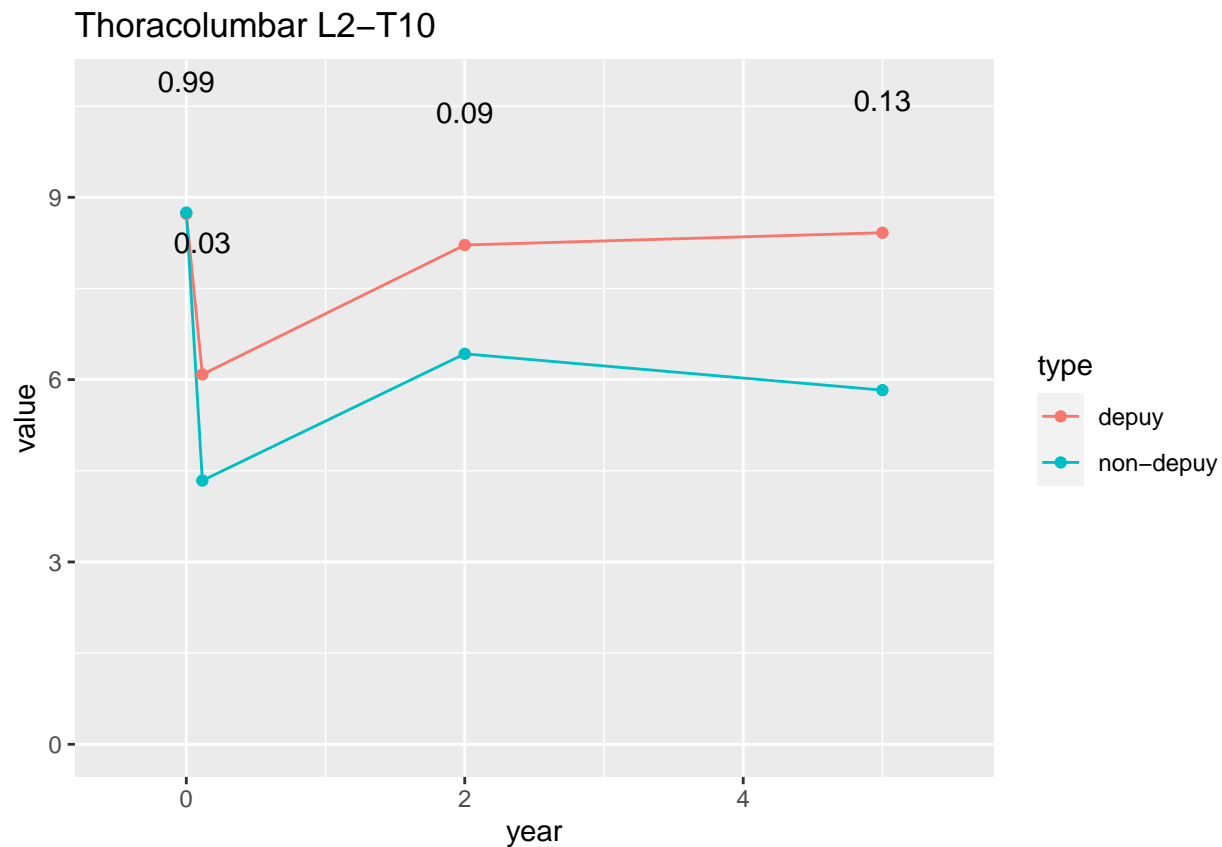

```
RSA
[1] "stats"
        type     mean       sd   N
1: non-depuy 15.15920 16.61581 671
2:     depuy 14.06993 15.28143 578
[1] "p_val"
[1] 0.2279596


6W. RSA
[1] "stats"
        type     mean       sd   N
1: non-depuy 9.116544 10.36852 596
2:     depuy 9.226516 10.20880 508
[1] "p_val"
[1] 0.859453


6W. RSA_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy -6.091993 14.00612 582
2:     depuy -5.110508 12.41165 492
[1] "p_val"
[1] 0.2237884
```

```
2Y. RSA
[1] "stats"
        type     mean       sd   N
1: non-depuy 10.86023 12.13689 390
2:     depuy 11.10809 11.66969 320
[1] "p_val"
[1] 0.782205


2Y. RSA_gain
[1] "stats"
        type      mean      sd   N
1: non-depuy -5.016842 11.7467 380
2:     depuy -4.766373 11.7454 306
[1] "p_val"
[1] 0.7813893


5Y. RSA
[1] "stats"
        type      mean       sd   N
1: non-depuy -11.37079 14.86943 139
2:     depuy  13.60484 12.55953 124
[1] "p_val"
[1] 3.073869e-36


5Y. RSA_gain
[1] "stats"
        type       mean       sd   N
1: non-depuy -25.811544 25.41884 136
2:     depuy  -3.263866 12.62038 119
[1] "p_val"
[1] 6.619189e-17


RSA tests
preop vs 6w p-value
4.87879e-23
6w vs 2y p-value
0.009133841

6w vs 5y p-value
1.087885e-14
2y vs 5y p-value
1.857739e-17
```

RSA
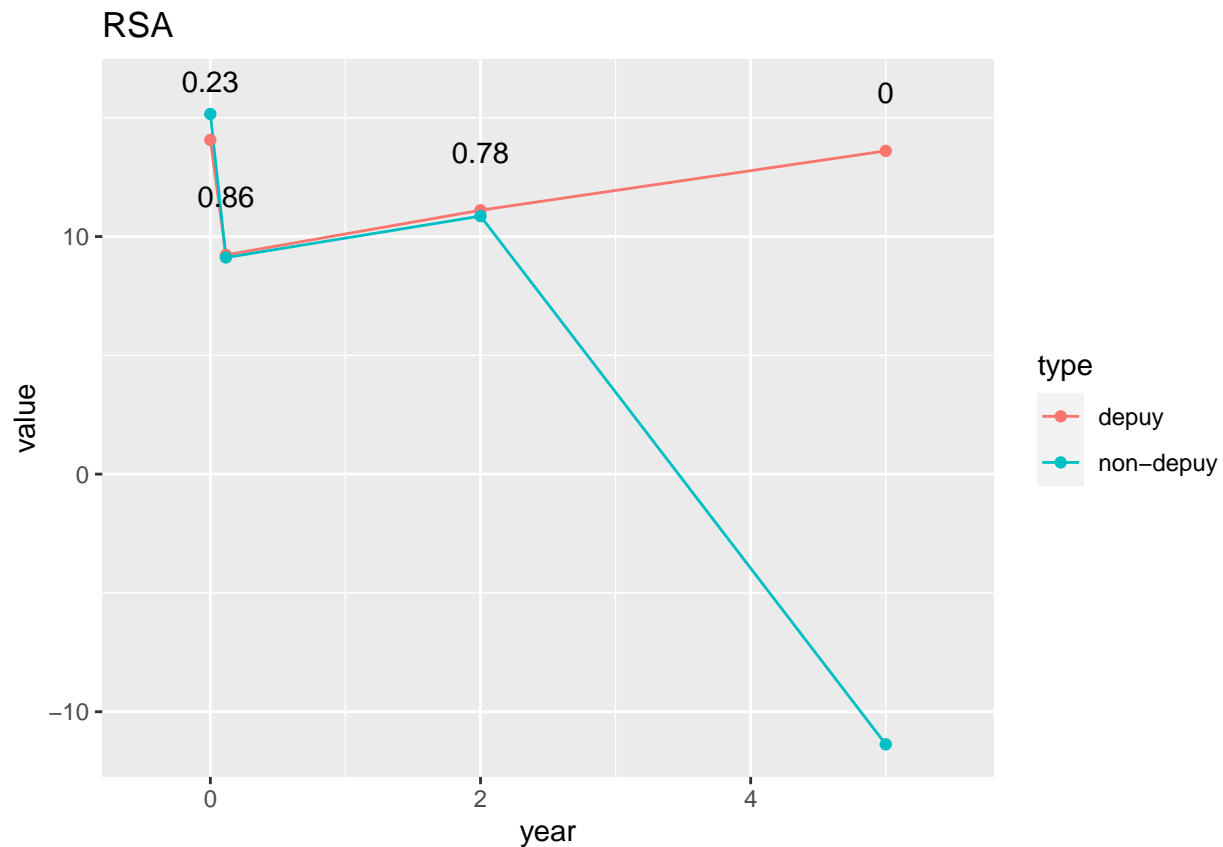

```
RPV
[1] "stats"
        type      mean        sd   N
1: non-depuy -8.409660 10.277530 676
2:     depuy -7.527563  9.208536 591
[1] "p_val"
[1] 0.1073873


6W. RPV
[1] "stats"
        type      mean       sd   N
1: non-depuy -5.869851 7.861553 603
2:     depuy -5.757193 7.726982 545
[1] "p_val"
[1] 0.8067711


6W. RPV_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 2.579375 8.605541 592
2:     depuy 1.808197 7.576640 538
[1] "p_val"
[1] 0.1094848
```

```
2Y. RPV
[1] "stats"
        type      mean       sd   N
1: non-depuy -6.730691 8.424367 391
2:     depuy -6.687087 7.944451 333
[1] "p_val"
[1] 0.9429538


2Y. RPV_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 2.228956 7.265265 383
2:     depuy 1.729200 6.894592 325
[1] "p_val"
[1] 0.348753


5Y. RPV
[1] "stats"
        type      mean        sd   N
1: non-depuy 61.576547 12.955681 139
2:     depuy -8.465726  8.100821 124
[1] "p_val"
[1] 6.569672e-133


5Y. RPV_gain
[1] "stats"
        type      mean        sd   N
1: non-depuy 70.3218248 16.899846 137
2:     depuy  0.8586777  8.002629 121
[1] "p_val"
[1] 1.036271e-102


RPV tests
preop vs 6w p-value
1.384848e-09
6w vs 2y p-value
0.0829016

6w vs 5y p-value
9.309859e-40
2y vs 5y p-value
1.070154e-40
```

RPV
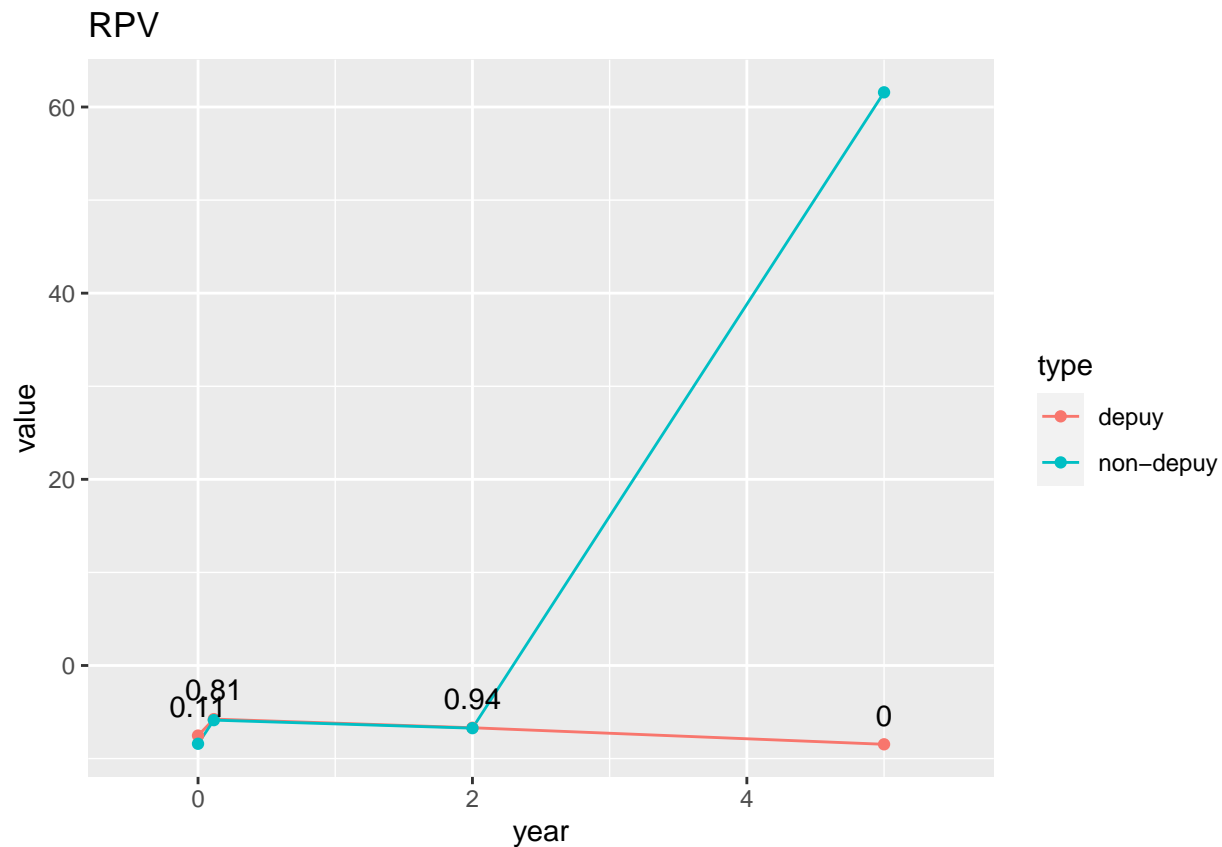
Quality of Life

```
ODI - Score (%)_First Visit
[1] "stats"
       type     mean       sd   N
1: non-depuy 39.52065 21.38889 678
2:     depuy 39.73196 19.95702 582
[1] "p_val"
[1] 0.8561951


6M. ODI - Score (%)
[1] "stats"
       type     mean       sd   N
1: non-depuy 28.10747 18.75586 549
2:     depuy 29.08298 17.85847 470
[1] "p_val"
[1] 0.3959234


6M. ODI - Score (%)_gain
[1] "stats"
       type      mean       sd   N
1: non-depuy -11.09280 20.14230 528
2:     depuy -11.86283 18.30812 452
```

```
[1] "p_val"
[1] 0.5310362


2Y. ODI - Score (%)
[1] "stats"
        type     mean       sd   N
1: non-depuy 26.99296 20.38344 426
2:     depuy 28.55474 19.91883 411
[1] "p_val"
[1] 0.2625658


2Y. ODI - Score (%)_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy -12.42227 19.28532 431
2:     depuy -12.42394 17.14147 401
[1] "p_val"
[1] 0.9989478


5Y. ODI - Score (%)
[1] "stats"
        type     mean       sd   N
1: non-depuy 28.65534 22.55946 206
2:     depuy 28.62857 20.29673 210
[1] "p_val"
[1] 0.9898615


5Y. ODI - Score (%)_gain
[1] "stats"
        type      mean       sd   N
1: non-depuy  -9.370192 19.36435 208
2:     depuy -11.668293 17.09309 205
[1] "p_val"
[1] 0.2015958


ODI - Score (%)_First Visit tests
preop vs 6m p-value
5.391917e-40
6m vs 2y p-value
0.3773594

6m vs 5y p-value
0.9438069
2y vs 5y p-value
0.4842877
```

ODI – Score (%)_First Visit
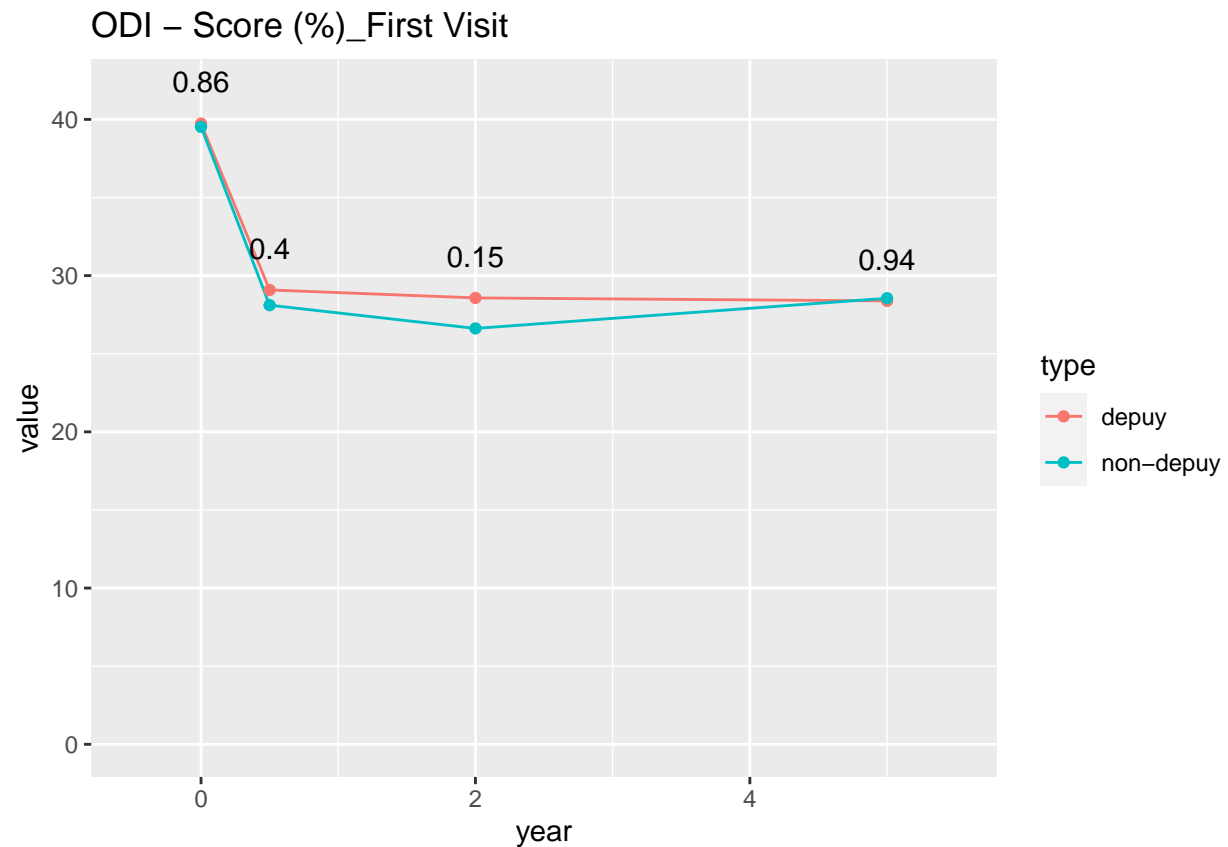

```
SRS22 - Function / Activity_First Visit
[1] "stats"
       type     mean        sd   N
1: non-depuy 3.150868 0.9756378 680
2:     depuy 3.105685 0.9075703 584
[1] "p_val"
[1] 0.3942003


6M. SRS22 - Function / Activity
[1] "stats"
       type     mean        sd   N
1: non-depuy 3.327644 0.8230335 556
2:     depuy 3.247155 0.8145752 471
[1] "p_val"
[1] 0.1166482


6M. SRS22 - Function / Activity_gain
[1] "stats"
       type      mean        sd   N
1: non-depuy 0.1737963 0.8831941 540
2:     depuy 0.2070330 0.8150829 455
[1] "p_val"
[1] 0.5375773
```

```
2Y. SRS22 - Function / Activity
[1] "stats"
        type     mean        sd   N
1: non-depuy 3.580117 0.9406210 428
2:     depuy 3.423479 0.9259905 411
[1] "p_val"
[1] 0.01528878


2Y. SRS22 - Function / Activity_gain
[1] "stats"
        type     mean        sd   N
1: non-depuy 0.4655172 0.8767774 435
2:     depuy 0.3774020 0.7795804 408
[1] "p_val"
[1] 0.1229576


5Y. SRS22 - Function / Activity
[1] "stats"
        type     mean        sd   N
1: non-depuy 3.516459 1.0237637 209
2:     depuy 3.443810 0.8750796 210
[1] "p_val"
[1] 0.4354767


5Y. SRS22 - Function / Activity_gain
[1] "stats"
        type     mean        sd   N
1: non-depuy 0.3615166 0.8820785 211
2:     depuy 0.4574163 0.7344635 209
[1] "p_val"
[1] 0.2265038


SRS22 - Function / Activity_First Visit tests
preop vs 6m p-value
1.370671e-05
6m vs 2y p-value
2.775275e-07

6m vs 5y p-value
0.0003854463
2y vs 5y p-value
0.680345
```

SRS22 – Function / Activity_First Visit
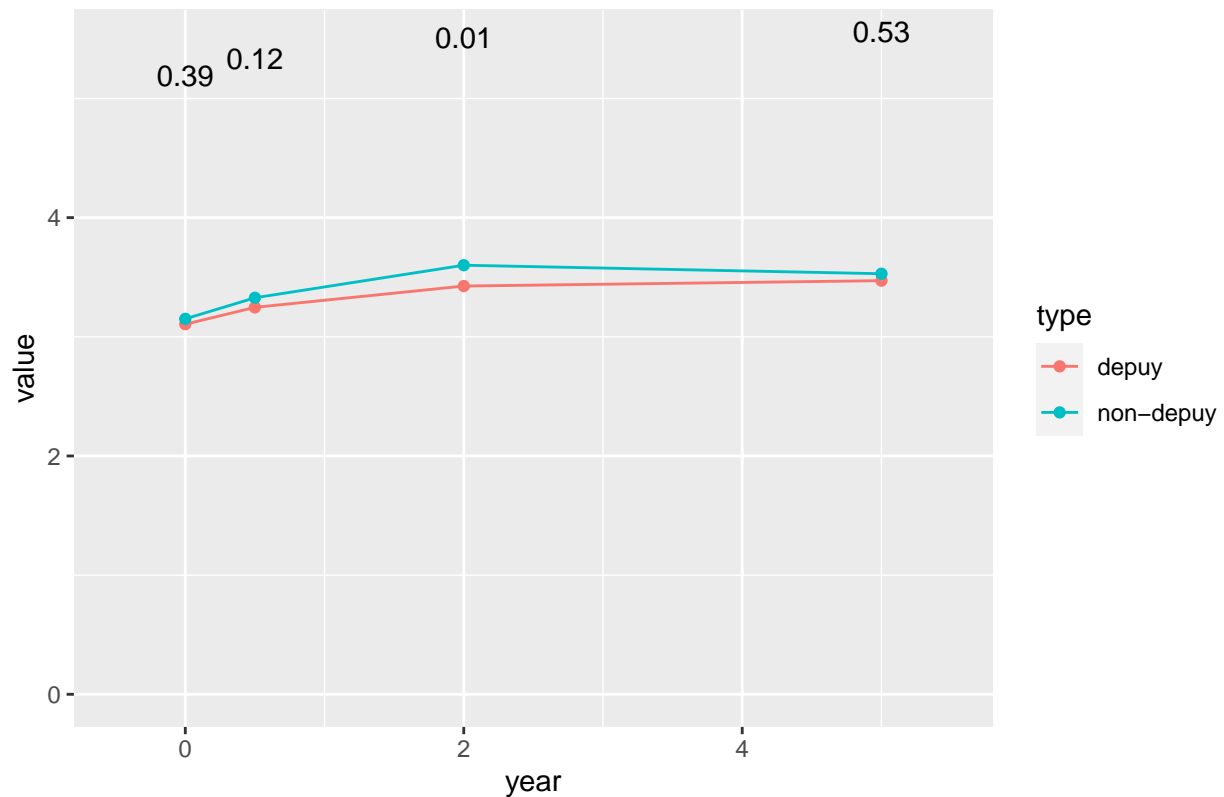

```
SRS22 - Pain_First Visit
[1] "stats"
        type     mean        sd   N
1: non-depuy 2.670029 1.0338565 680
2:     depuy 2.595291 0.9918463 584
[1] "p_val"
[1] 0.190534


6M. SRS22 - Pain
[1] "stats"
        type     mean        sd   N
1: non-depuy 3.357968 0.9497440 556
2:     depuy 3.329788 0.9676209 471
[1] "p_val"
[1] 0.6391717


6M. SRS22 - Pain_gain
[1] "stats"
        type      mean        sd   N
1: non-depuy 0.6893333 1.0343083 540
2:     depuy 0.8011868 0.9794244 455
[1] "p_val"
[1] 0.08058301
```

```
2Y. SRS22 - Pain
[1] "stats"
        type     mean       sd    N
1: non-depuy 3.489089 1.075927 428
2:     depuy 3.421071 1.063229 411
[1] "p_val"
[1] 0.3573607


2Y. SRS22 - Pain_gain
[1] "stats"
        type      mean        sd    N
1: non-depuy 0.8433103 1.0341688 435
2:     depuy 0.9118627 0.9941487 408
[1] "p_val"
[1] 0.3267652


5Y. SRS22 - Pain
[1] "stats"
        type     mean       sd    N
1: non-depuy 3.367129 1.130210 209
2:     depuy 3.349286 1.128062 210
[1] "p_val"
[1] 0.8715918


5Y. SRS22 - Pain_gain
[1] "stats"
        type      mean       sd    N
1: non-depuy 0.7140284 1.056991 211
2:     depuy 0.8612919 1.067331 209
[1] "p_val"
[1] 0.1561718


SRS22 - Pain_First Visit tests
preop vs 6m p-value
3.623896e-62
6m vs 2y p-value
0.01987602

6m vs 5y p-value
0.8339831
2y vs 5y p-value
0.1416273
```

SRS22 – Pain_First Visit
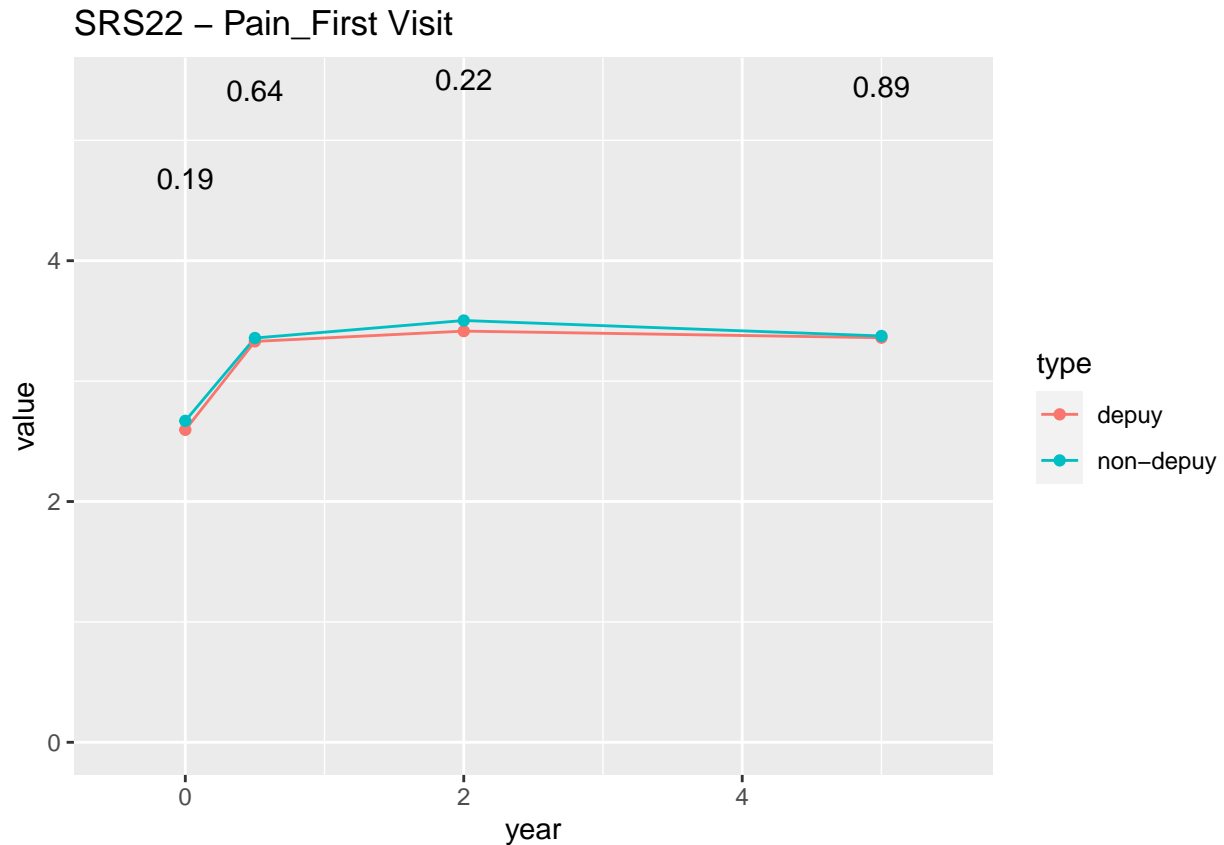

```
SRS22 - Self image / Appearance_First Visit
[1] "stats"
        type     mean        sd   N
1: non-depuy 2.367044 0.8094368 680
2:     depuy 2.452877 0.7294202 584
[1] "p_val"
[1] 0.04764597



6M. SRS22 - Self image / Appearance
[1] "stats"
        type     mean        sd   N
1: non-depuy 3.480612 0.8259991 556
2:     depuy 3.454756 0.8479938 471
[1] "p_val"
[1] 0.6223315



6M. SRS22 - Self image / Appearance_gain
[1] "stats"
        type     mean        sd   N
1: non-depuy 1.112148 0.9966680 540
2:     depuy 1.054857 0.9303848 455
[1] "p_val"
[1] 0.3492152
```

```
2Y. SRS22 - Self image / Appearance
[1] "stats"
        type     mean         sd   N
1: non-depuy 3.533341 0.8819662 428
2:     depuy 3.416107 0.9088572 411
[1] "p_val"
[1] 0.05843696


2Y. SRS22 - Self image / Appearance_gain
[1] "stats"
        type     mean         sd   N
1: non-depuy 1.201563 0.9784580 435
2:     depuy 1.009093 0.9580193 408
[1] "p_val"
[1] 0.004012808


5Y. SRS22 - Self image / Appearance
[1] "stats"
        type     mean         sd   N
1: non-depuy 3.378708 0.9939668 209
2:     depuy 3.339762 0.9384031 210
[1] "p_val"
[1] 0.6802917


5Y. SRS22 - Self image / Appearance_gain
[1] "stats"
        type      mean         sd   N
1: non-depuy 1.0298578 0.9959123 211
2:     depuy 0.9529665 0.9143792 209
[1] "p_val"
[1] 0.4102366


SRS22 - Self image / Appearance_First Visit tests
preop vs 6m p-value
1.110195e-176
6m vs 2y p-value
0.8596549

6m vs 5y p-value
0.04246688
2y vs 5y p-value
0.03889158
```
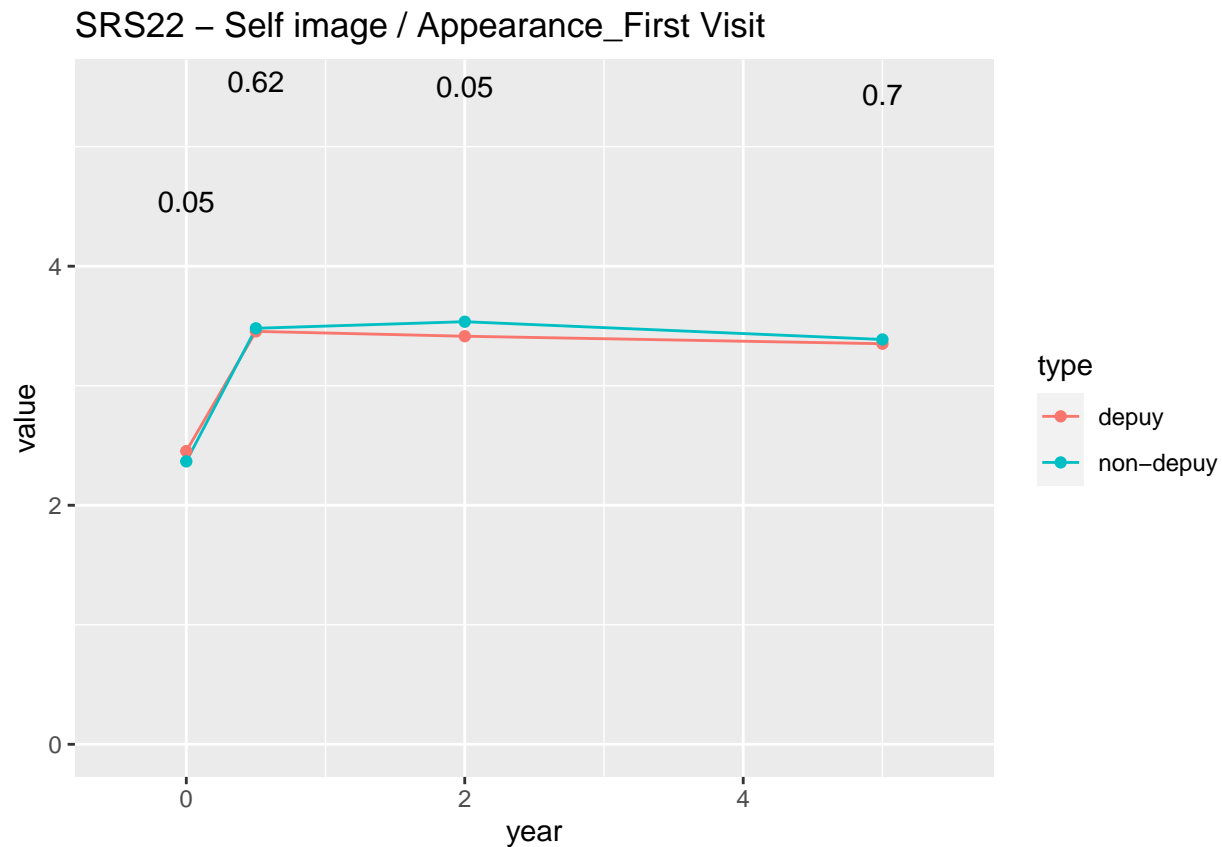
SRS22 – Self image / Appearance_First Visit

0.62   0.05   0.7

0.05


```
SRS22 - Mental health_First Visit
[1] "stats"
        type     mean        sd   N
1: non-depuy 3.125662 0.8938093 680
2:     depuy 3.221284 0.8912548 584
[1] "p_val"
[1] 0.05777136


6M. SRS22 - Mental health
[1] "stats"
        type     mean        sd   N
1: non-depuy 3.494424 0.7983911 556
2:     depuy 3.518450 0.9015841 471
[1] "p_val"
[1] 0.6540432


6M. SRS22 - Mental health_gain
[1] "stats"
        type      mean        sd   N
1: non-depuy 0.3265741 0.8429355 540
2:     depuy 0.3501758 0.8243278 455
[1] "p_val"
[1] 0.6562053
```

```
2Y. SRS22 - Mental health
[1] "stats"
        type     mean        sd    N
1: non-depuy 3.513598 0.8577478 428
2:     depuy 3.514039 0.9601993 411
[1] "p_val"
[1] 0.9944144


2Y. SRS22 - Mental health_gain
[1] "stats"
        type      mean        sd    N
1: non-depuy 0.3776322 0.8957018 435
2:     depuy 0.3543873 0.8811282 408
[1] "p_val"
[1] 0.7042433


5Y. SRS22 - Mental health
[1] "stats"
        type     mean        sd    N
1: non-depuy 3.479187 0.9471540 209
2:     depuy 3.521905 0.8993997 210
[1] "p_val"
[1] 0.6362104


5Y. SRS22 - Mental health_gain
[1] "stats"
        type      mean        sd    N
1: non-depuy 0.4047393 0.8909739 211
2:     depuy 0.3627751 0.8621133 209
[1] "p_val"
[1] 0.6240125


SRS22 - Mental health_First Visit tests
preop vs 6m p-value
7.831231e-20
6m vs 2y p-value
0.8383352

6m vs 5y p-value
0.9261275
2y vs 5y p-value
0.8098755
```
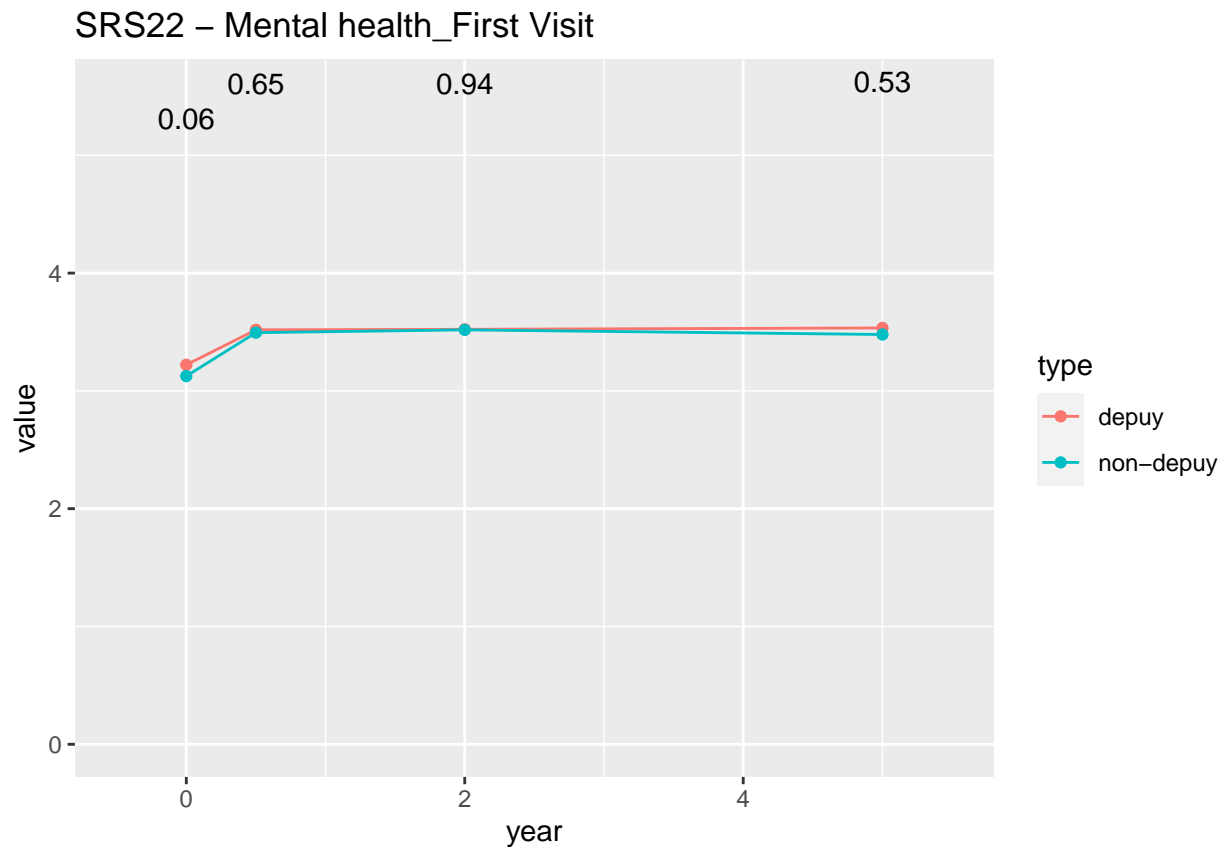
SRS22 – Mental health_First Visit


```
SRS22 - SRS Subtotal score_First Visit
[1] "stats"
        type     mean        sd   N
1: non-depuy 2.829779 0.7580786 680
2:     depuy 2.848065 0.6986587 584
[1] "p_val"
[1] 0.6556755


6M. SRS22 - SRS Subtotal score
[1] "stats"
        type     mean        sd   N
1: non-depuy 3.417374 0.7008023 556
2:     depuy 3.382076 0.7518066 472
[1] "p_val"
[1] 0.4392329


6M. SRS22 - SRS Subtotal score_gain
[1] "stats"
        type     mean        sd   N
1: non-depuy 0.5755185 0.7280061 540
2:     depuy 0.5922149 0.6806908 456
[1] "p_val"
[1] 0.7088046
```

```
2Y. SRS22 - SRS Subtotal score
[1] "stats"
        type     mean        sd   N
1: non-depuy 3.530561 0.7990188 428
2:     depuy 3.444015 0.8409511 411
[1] "p_val"
[1] 0.1271437


2Y. SRS22 - SRS Subtotal score_gain
[1] "stats"
        type     mean        sd   N
1: non-depuy 0.7218621 0.7394680 435
2:     depuy 0.6582353 0.7050898 408
[1] "p_val"
[1] 0.2013189


5Y. SRS22 - SRS Subtotal score
[1] "stats"
        type     mean        sd   N
1: non-depuy 3.435789 0.9051214 209
2:     depuy 3.398436 0.8737467 211
[1] "p_val"
[1] 0.667249


5Y. SRS22 - SRS Subtotal score_gain
[1] "stats"
        type     mean        sd   N
1: non-depuy 0.6278673 0.7566069 211
2:     depuy 0.6358095 0.7464632 210
[1] "p_val"
[1] 0.9137163


SRS22 - SRS Subtotal score_First Visit tests
preop vs 6m p-value
1.252354e-70
6m vs 2y p-value
0.0164631

6m vs 5y p-value
0.7458202
2y vs 5y p-value
0.1699739
```
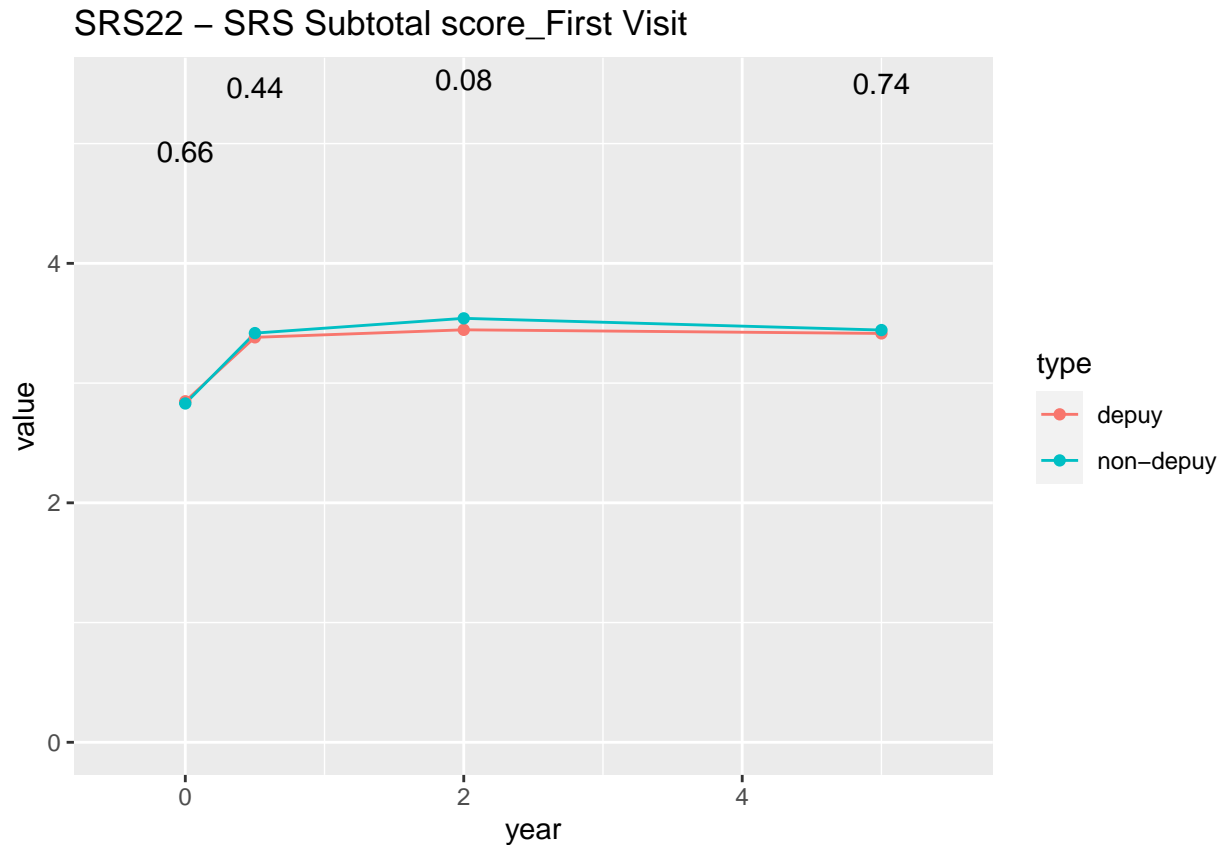
SRS22 – SRS Subtotal score_First Visit


```
SRS22 - Satisfaction with management_First Visit
[1] "stats"
        type     mean       sd   N
1: non-depuy 2.929012 1.102863 324
2:     depuy 3.077381 1.064434 420
[1] "p_val"
[1] 0.06515641



6M. SRS22 - Satisfaction with management
[1] "stats"
        type     mean        sd   N
1: non-depuy 4.142987 0.8786036 549
2:     depuy 4.233261 0.8861705 463
[1] "p_val"
[1] 0.1053837



6M. SRS22 - Satisfaction with management_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 1.112205 1.307552 254
2:     depuy 1.145367 1.286189 313
[1] "p_val"
[1] 0.7623674
```

```
2Y. SRS22 - Satisfaction with management
[1] "stats"
        type     mean        sd   N
1: non-depuy 4.138955 0.9400116 421
2:     depuy 4.128429 1.0007946 401
[1] "p_val"
[1] 0.8766597


2Y. SRS22 - Satisfaction with management_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 1.0198864 1.373588 176
2:     depuy 0.9839286 1.295398 280
[1] "p_val"
[1] 0.7810666


5Y. SRS22 - Satisfaction with management
[1] "stats"
        type     mean       sd   N
1: non-depuy 3.932039 1.085489 206
2:     depuy 3.959135 1.040027 208
[1] "p_val"
[1] 0.7955402


5Y. SRS22 - Satisfaction with management_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 0.9507042 1.307000  71
2:     depuy 0.8816794 1.243185 131
[1] "p_val"
[1] 0.7160333


SRS22 - Satisfaction with management_First Visit tests
preop vs 6m p-value
2.979574e-108
6m vs 2y p-value
0.248794

6m vs 5y p-value
6.028687e-05
2y vs 5y p-value
0.002559451
```
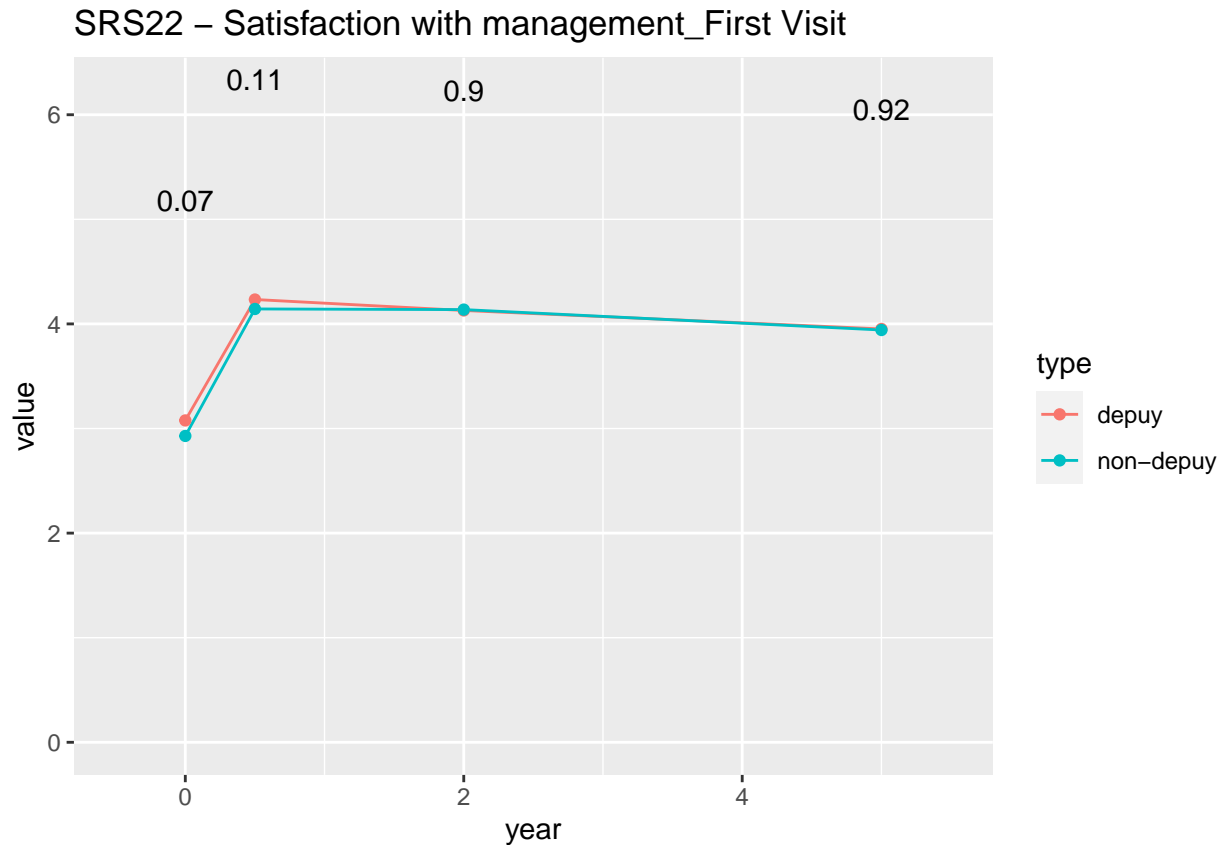
SRS22 – Satisfaction with management_First Visit


```
SF36 - PCS_First Visit
[1] "stats"
       type     mean        sd   N
1: non-depuy 37.05776  9.877397 603
2:     depuy 35.83870 10.239275 555
[1] "p_val"
[1] 0.03976692


6M. SF36 - PCS
[1] "stats"
       type     mean       sd   N
1: non-depuy 40.97673 9.392435 496
2:     depuy 40.34817 9.564251 454
[1] "p_val"
[1] 0.3077348


6M. SF36 - PCS_gain
[1] "stats"
       type     mean        sd   N
1: non-depuy 3.996030 10.163743 466
2:     depuy 4.765184  9.964172 434
[1] "p_val"
[1] 0.2520921
```

```
2Y. SF36 - PCS
[1] "stats"
        type     mean       sd   N
1: non-depuy 42.68176 10.55637 403
2:     depuy 41.65167 10.51772 403
[1] "p_val"
[1] 0.1656166


2Y. SF36 - PCS_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 5.375216 9.790628 393
2:     depuy 6.350852 9.340463 393
[1] "p_val"
[1] 0.1533023


5Y. SF36 - PCS
[1] "stats"
        type     mean      sd   N
1: non-depuy 42.22908 11.2609 163
2:     depuy 40.74315 11.3110 203
[1] "p_val"
[1] 0.2113476


5Y. SF36 - PCS_gain
[1] "stats"
        type     mean       sd   N
1: non-depuy 4.676125 10.29263 160
2:     depuy 5.751095 10.33024 201
[1] "p_val"
[1] 0.3257277


SF36 - PCS_First Visit tests
preop vs 6m p-value
2.089917e-22
6m vs 2y p-value
0.002025484

6m vs 5y p-value
0.2742589
2y vs 5y p-value
0.2752116
```
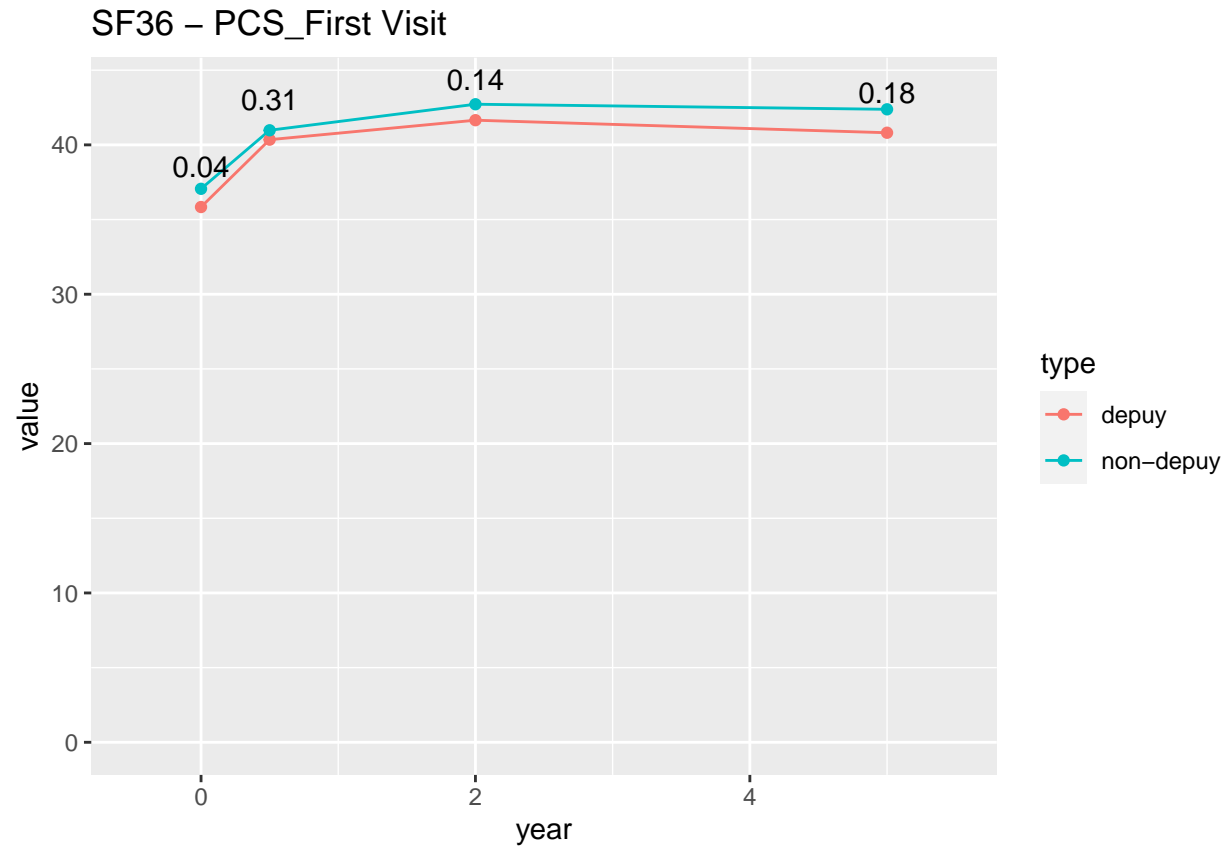
SF36 – PCS_First Visit


```
SF36 - MCS_First Visit
[1] "stats"
        type     mean       sd    N
1: non-depuy 42.24614 12.13481 603
2:     depuy 44.07714 12.60726 555
[1] "p_val"
[1] 0.01208482


6M. SF36 - MCS
[1] "stats"
        type     mean       sd    N
1: non-depuy 46.56333 10.91647 496
2:     depuy 47.69998 12.87508 454
[1] "p_val"
[1] 0.1444043


6M. SF36 - MCS_gain
[1] "stats"
        type     mean       sd    N
1: non-depuy 4.220579 12.07457 466
2:     depuy 4.144447 12.20188 434
[1] "p_val"
[1] 0.9251275
```

```
2Y. SF36 - MCS
[1] "stats"
        type     mean       sd    N
1: non-depuy 46.80261 11.25410 403
2:     depuy 47.64317 12.66176 403
[1] "p_val"
[1] 0.3195056


2Y. SF36 - MCS_gain
[1] "stats"
        type     mean       sd    N
1: non-depuy 4.486921 12.73310 393
2:     depuy 3.810861 12.39007 393
[1] "p_val"
[1] 0.4508567


5Y. SF36 - MCS
[1] "stats"
        type     mean       sd    N
1: non-depuy 47.10227 11.97692 163
2:     depuy 47.39961 11.32544 204
[1] "p_val"
[1] 0.808875


5Y. SF36 - MCS_gain
[1] "stats"
        type     mean       sd    N
1: non-depuy 5.610562 13.10822 160
2:     depuy 3.593812 11.72200 202
[1] "p_val"
[1] 0.1288095


SF36 - MCS_First Visit tests
preop vs 6m p-value
9.130254e-14
6m vs 2y p-value
0.8387985

6m vs 5y p-value
0.8226955
2y vs 5y p-value
0.9517762
```
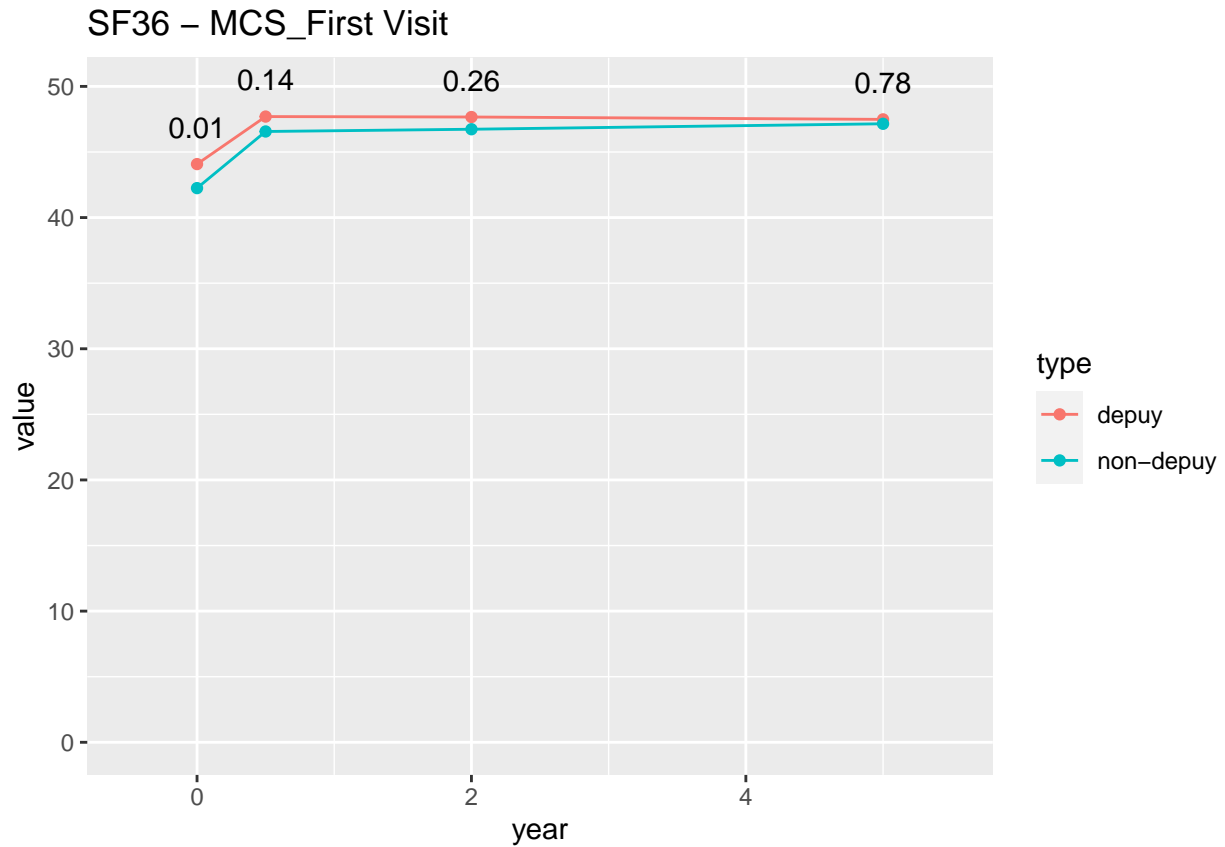
SF36 – MCS_First Visit

Surgery

```
Total Operative Blood Loss st1+st2+st3
[1] "stats"
        type     mean        sd   N
1: non-depuy 1085.569   986.0179 617
2:     depuy 1212.258 1093.9438 596
[1] "p_val"
[1] 0.03452643


Total surgical time
[1] "stats"
        type     mean       sd   N
1: non-depuy 310.4316 192.3016 702
2:     depuy 321.9058 182.7838 605
[1] "p_val"
[1] 0.2695349


Number of Posterior Instrumented Levels
[1] "stats"
        type     mean       sd   N
1: non-depuy 9.826025 4.183402 707
2:     depuy 8.079208 3.922429 606
```

```
[1] "p_val"
[1] 1.25398e-14


Pelvic fixation
[1] "table_depuy"

 No Yes
385 200
[1] "proportion_depuy"

       No       Yes
0.6581197 0.3418803
[1] "table_nondepuy"

 No Yes
403 304
[1] "proportion_nondepuy"

       No       Yes
0.5700141 0.4299859
[1] "p_val_No"
[1] 0.01910237
[1] "p_val_Yes"
[1] 0.0002548608
[1] "p_val_NA"
[1] NaN


Surgical Approach
[1] "table_depuy"

                   Anterior           Anterior-Posterior
                          1                           17
Anterior-Posterior-Posterior                   Posterior
                          2                          557
       Posterior-Anterior Posterior-Anterior-Posterior
                          8                            3
       Posterior-Posterior
                          6
[1] "proportion_depuy"

                   Anterior           Anterior-Posterior
                0.001683502                  0.028619529
Anterior-Posterior-Posterior                   Posterior
                0.003367003                  0.937710438
       Posterior-Anterior Posterior-Anterior-Posterior
                0.013468013                  0.005050505
       Posterior-Posterior
                0.010101010
[1] "table_nondepuy"
< table of extent 0 >
[1] "proportion_nondepuy"
numeric(0)
```

```
[1] "p_val_NA"
[1] NaN
[1] "p_val_Posterior"
[1] 2.808888e-246
[1] "p_val_Anterior-Posterior"
[1] 2.263624e-05
[1] "p_val_Posterior-Anterior"
[1] 0.006762052
[1] "p_val_Posterior-Posterior"
[1] 0.02501955
[1] "p_val_Posterior-Anterior-Posterior"
[1] 0.1960029
[1] "p_val_Anterior-Posterior-Posterior"
[1] 0.4129196
[1] "p_val_Anterior"
[1] 0.9385735


Number of Interbody Fusions
[1] "stats"
          type      mean        sd   N
1: non-depuy 1.6140940 0.8094992 298
2:     depuy 0.9565217 1.1980369 598
[1] "p_val"
[1] 4.091223e-21


Decompression
[1] "table_depuy"

 No Yes
382 225
[1] "proportion_depuy"

       No       Yes
0.6293245 0.3706755
[1] "table_nondepuy"

 No Yes
526 182
[1] "proportion_nondepuy"

       No       Yes
0.7429379 0.2570621
[1] "p_val_No"
[1] 1.170375e-05
[1] "p_val_Yes"
[1] 1.170375e-05


Interbody Fusion
[1] "table_depuy"

 No Yes
```

```
302 305
[1] "proportion_depuy"

        No       Yes
0.4975288 0.5024712
[1] "table_nondepuy"

 No Yes
410 298
[1] "proportion_nondepuy"

       No       Yes
0.579096 0.420904
[1] "p_val_No"
[1] 0.003686573
[1] "p_val_Yes"
[1] 0.003686573


Osteotomy
[1] "table_depuy"

 No Yes
334 273
[1] "proportion_depuy"

        No       Yes
0.5502471 0.4497529
[1] "table_nondepuy"

 No Yes
388 320
[1] "proportion_nondepuy"

        No       Yes
0.5480226 0.4519774
[1] "p_val_No"
[1] 0.9798677
[1] "p_val_Yes"
[1] 0.9798677


3CO
[1] "table_depuy"

FALSE  TRUE
  514    71
[1] "proportion_depuy"

    FALSE      TRUE
0.8786325 0.1213675
[1] "table_nondepuy"

FALSE  TRUE
```

```
 393    312
[1] "proportion_nondepuy"

      FALSE       TRUE
0.5574468 0.4425532
[1] "p_val_FALSE"
[1] 8.354817e-30
[1] "p_val_TRUE"
[1] 1.278558e-37
[1] "p_val_NA"
[1] NaN


uiv_t10_12_l1
[1] "table_depuy"

 No Yes
557  50
[1] "proportion_depuy"

        No        Yes
0.91762768 0.08237232
[1] "table_nondepuy"

 No Yes
671  37
[1] "proportion_nondepuy"

        No        Yes
0.94774011 0.05225989
[1] "p_val_No"
[1] 0.03763463
[1] "p_val_Yes"
[1] 0.03763463
```