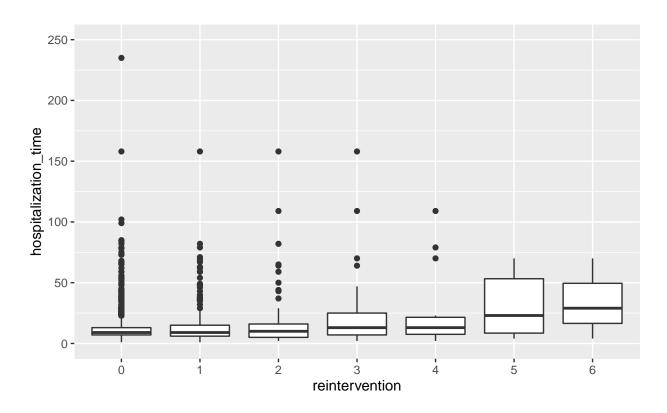
Reinterventions exploration

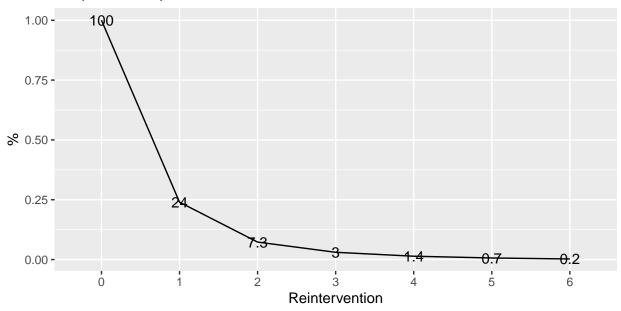
Hospitalization Time



```
##
      {\tt reintervention} \ {\tt 0\%}
                            25% 50%
                                        75% 100%
## 1:
                            7.0
                                   9 13.00
                                              235
## 2:
                      1
                         1
                            6.0
                                   9 15.00
                                              158
## 3:
                                              158
                      3
## 4:
                            7.0
                                              158
## 5:
                                              109
## 6:
                            8.5
                                  23 53.25
                                               70
## 7:
                         4 16.5
                                  29 49.50
```

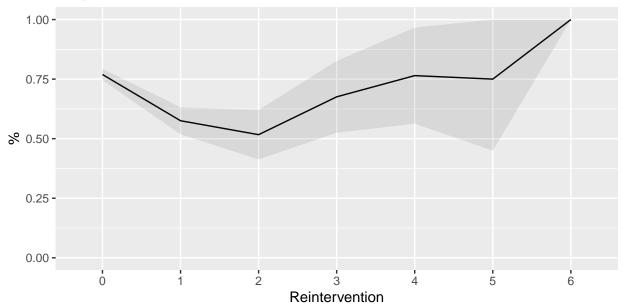
Proportion of reinterventions

Proportion of patients, total 1218



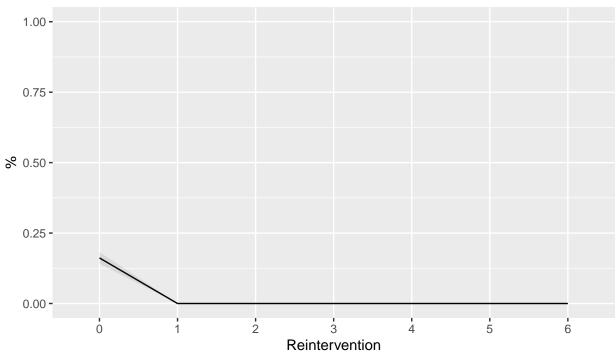
Proportion of SICU transfers

Proportion of transferred to SICU

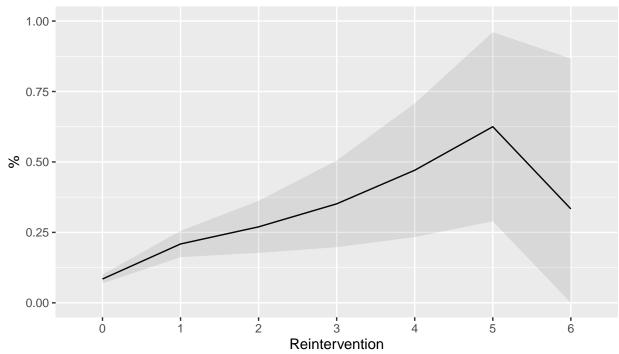


Evolution of surgeries

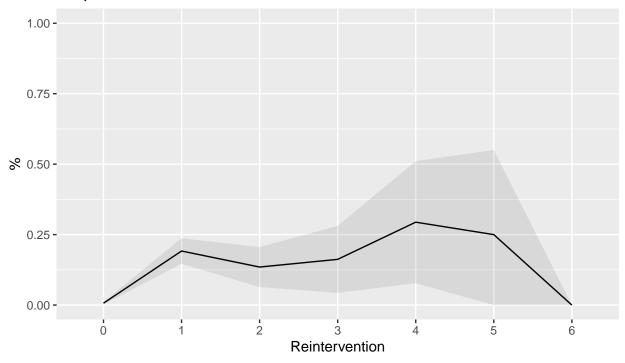
Proportion of 3CO



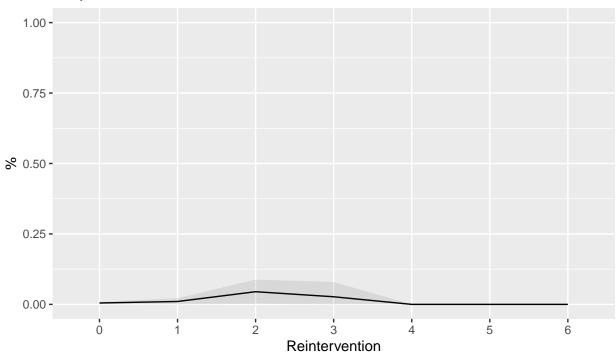
Proportion of Implant removal



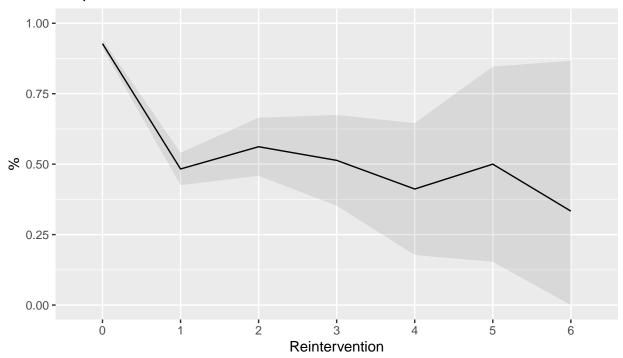
Proportion of Infection Debridement



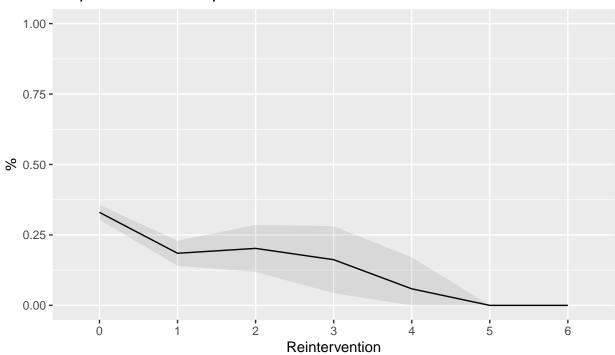
Proportion of Anterior Instrumented Fusion



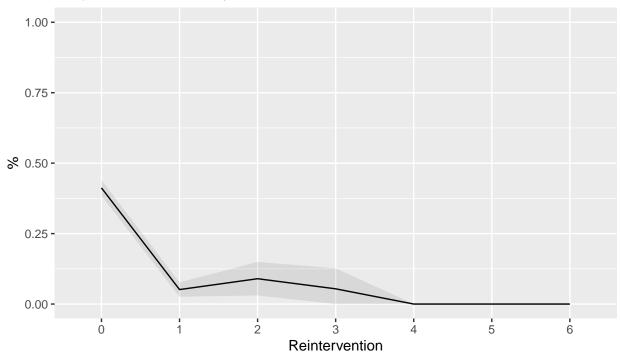
Proportion of Posterior Instrumented Fusion



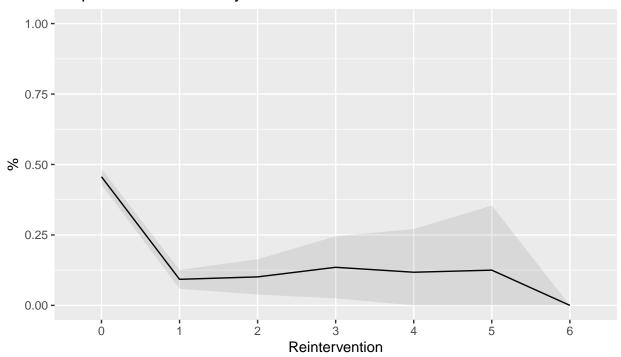
Proportion of Decompression



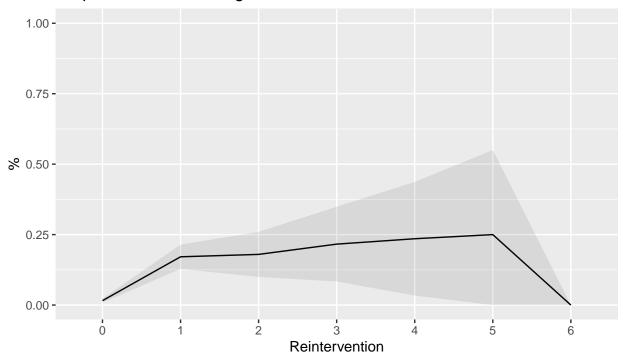
Proportion of Interbody Fusion



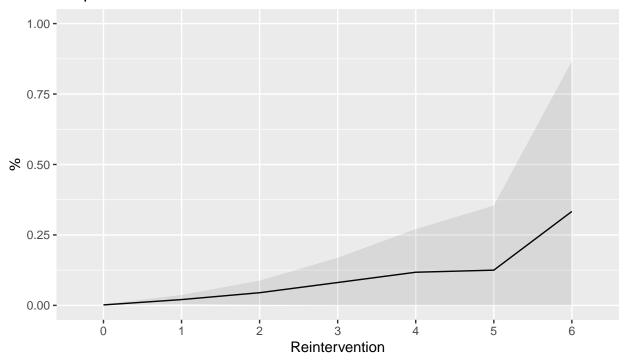
Proportion of Osteotomy



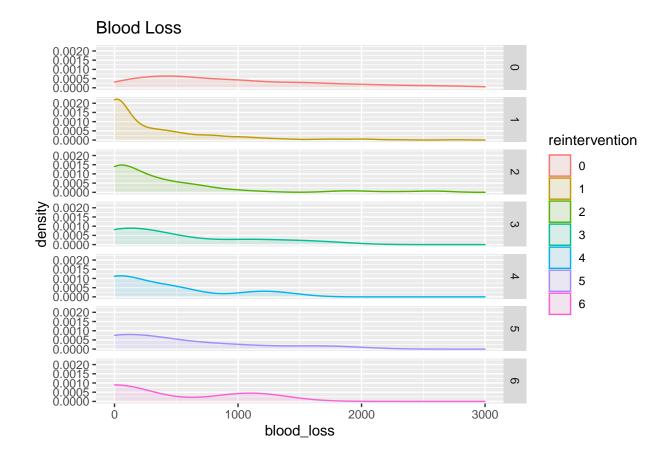
Proportion of Rod change



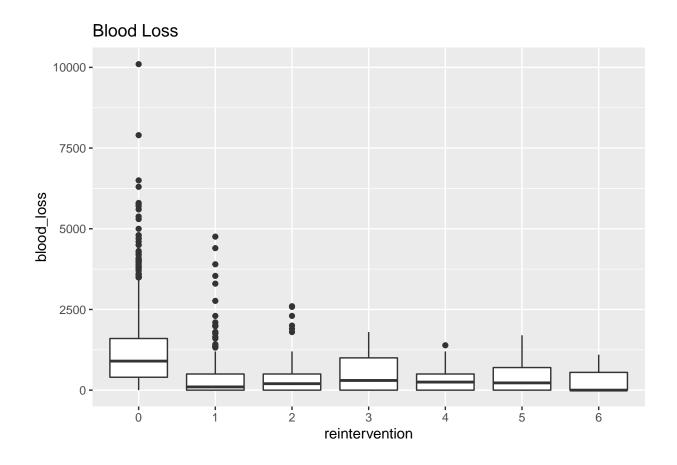
Proportion of Scar revision



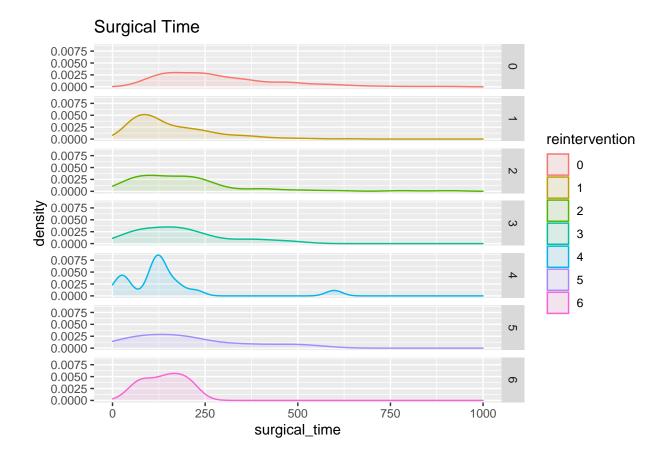
Warning: Removed 107 rows containing non-finite values (stat_density).



Warning: Removed 38 rows containing non-finite values (stat_boxplot).

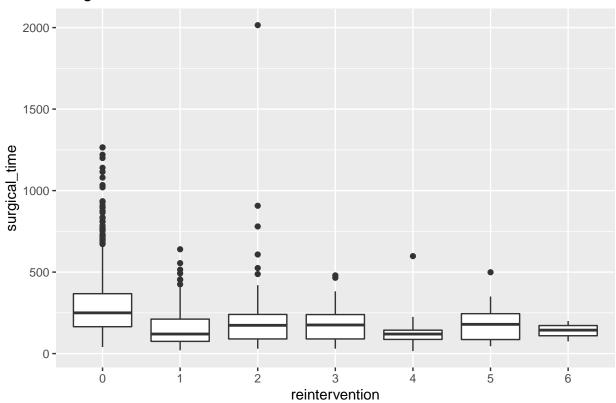


Warning: Removed 111 rows containing non-finite values (stat_density).



Warning: Removed 101 rows containing non-finite values (stat_boxplot).

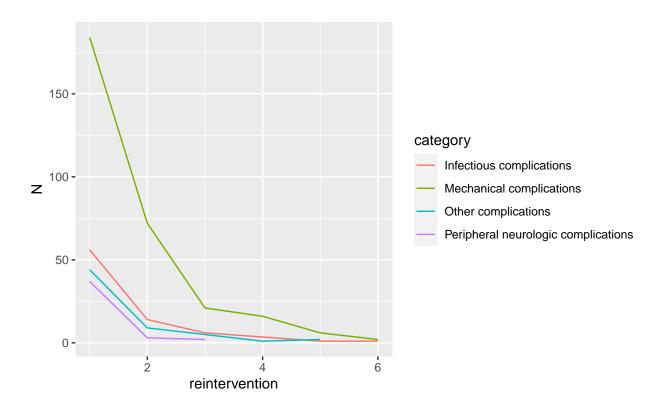
Surgical Time

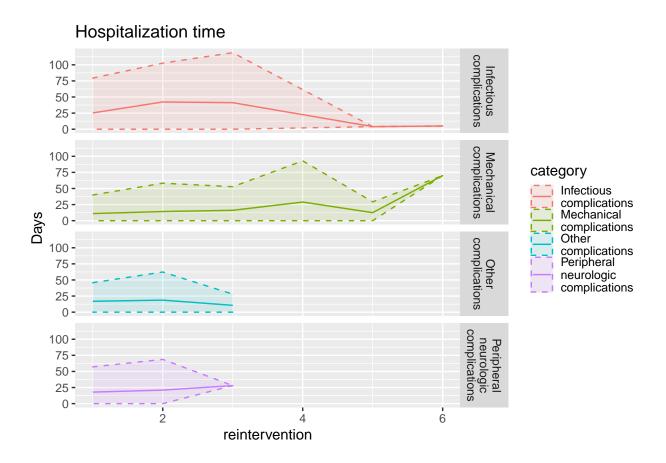


Complications

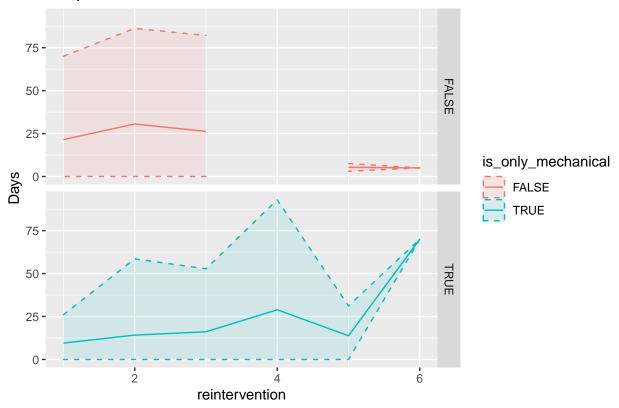
```
complications %>%
  .['Complication Type'=='Primary'] %>%
  .['Reoperation Due to Complication'=='Yes'] ->
  complications_
calc_reintervention <- function(days_since_surgery){</pre>
  days_since_surgery %>%
      unique %>%
      sort %>%
      data.table(days=., position=1:length(.)) %>%
      merge(data.table(days=days_since_surgery)) %>%
      .[, position]
}
complications_ %>%
  .[, .(
    category='Category of the complication',
    days_since_surgery='Days since surgery',
    patient_id='Code of the patient',
    date='Date of Reoperation'
  )] %>%
```

```
na.omit %>%
setorder(patient_id, days_since_surgery) %>%
.[, .(
  category, date, days_since_surgery,
  reintervention=calc_reintervention(days_since_surgery)),
  patient_id] ->
complications_
```



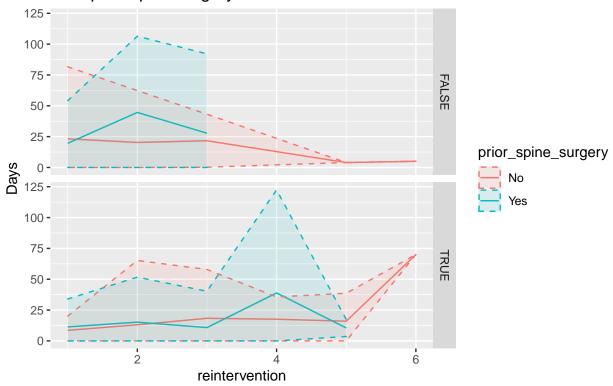


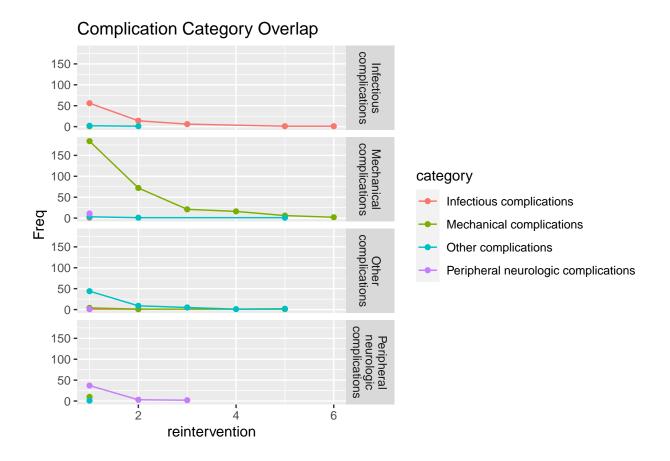
Hospitalization time for ONLY mechanical interventions



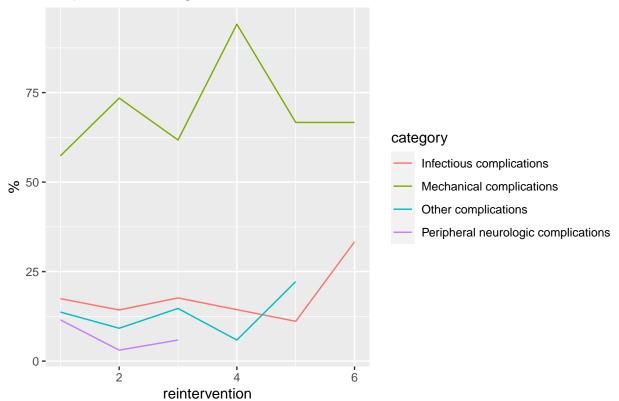
Warning: Removed 1 row(s) containing missing values (geom_path).

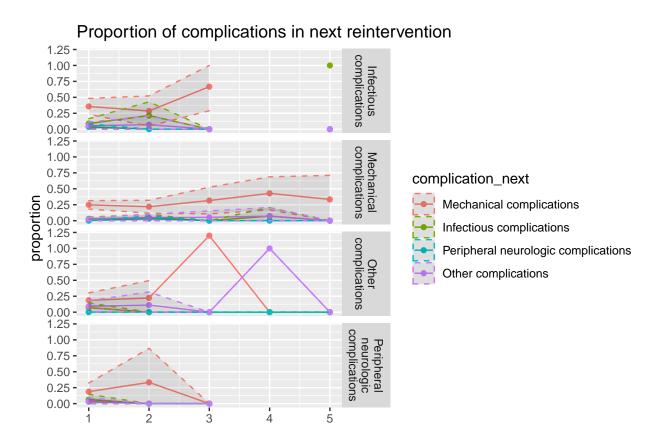
Hospitalization time for ONLY mechanical interventions with prior spine surgery – differences in means





Proportion of categories

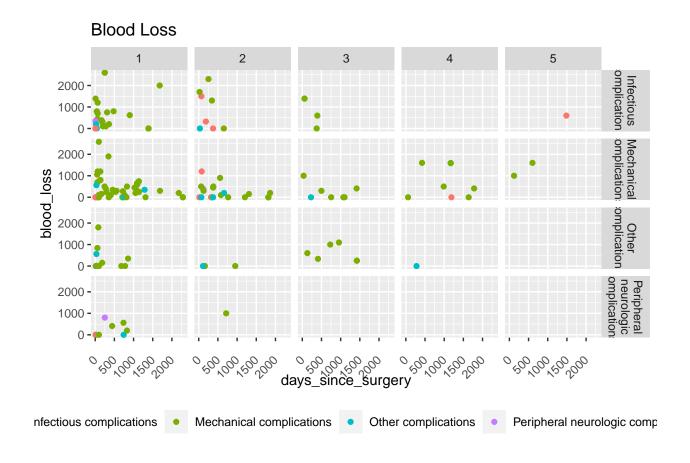




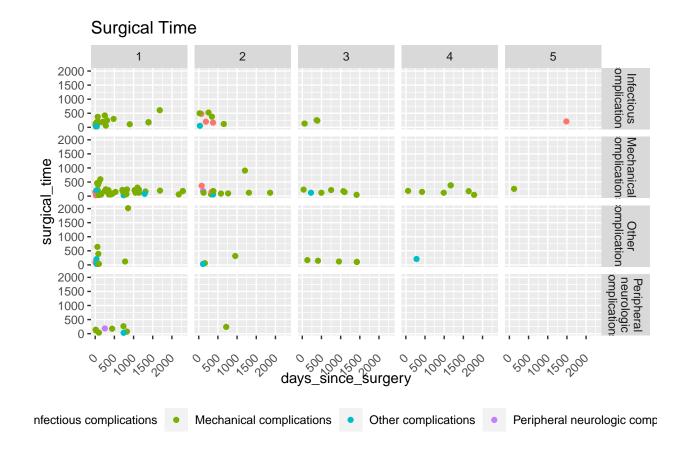
Comparation with next reintervention

reintervention

Warning: Removed 5 rows containing missing values (geom_point).

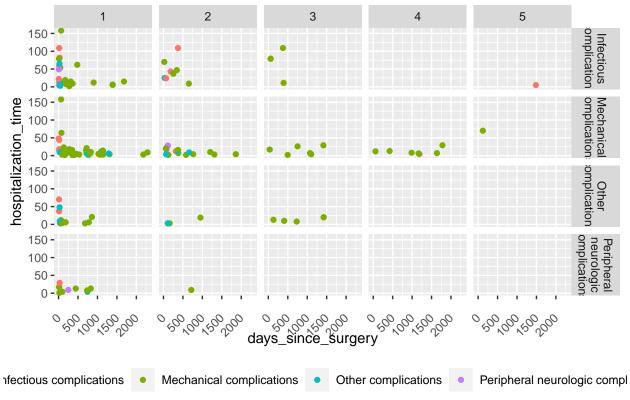


Warning: Removed 34 rows containing missing values (geom_point).



Warning: Removed 17 rows containing missing values (geom_point).



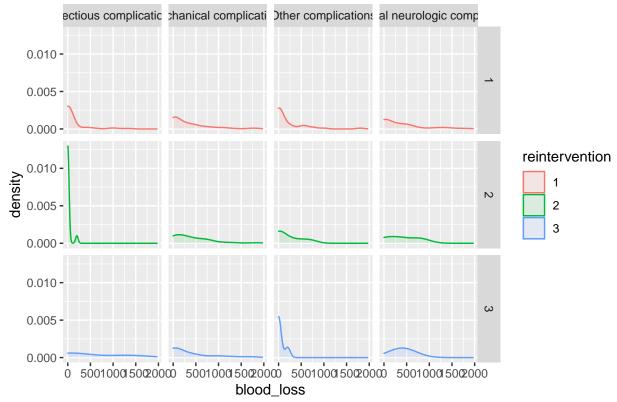


By Complication type & Reintervention

Blood Loss

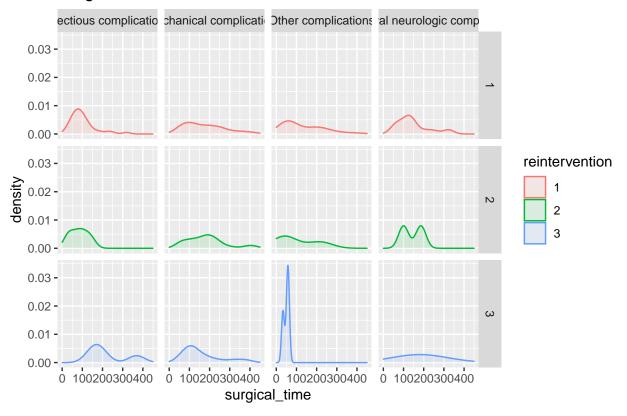
Warning: Removed 20 rows containing non-finite values (stat_density).

Blood Loss



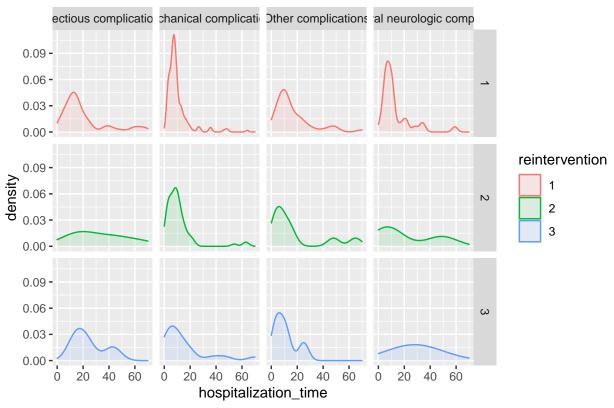
Warning: Removed 114 rows containing non-finite values (stat_density).

Surgical Time



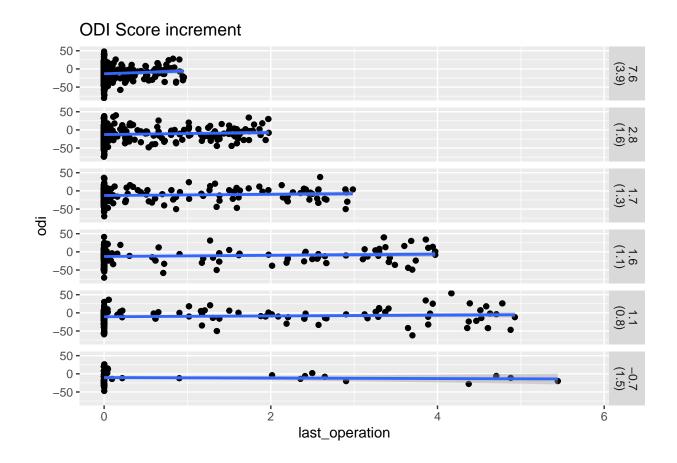
Warning: Removed 26 rows containing non-finite values (stat_density).





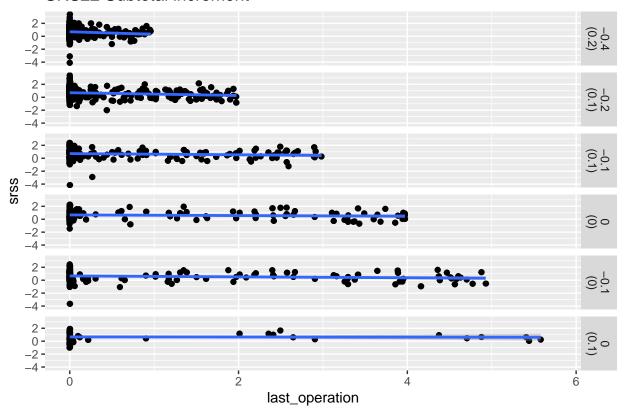
Quality life increment for reinterventions

'geom_smooth()' using formula 'y ~ x'

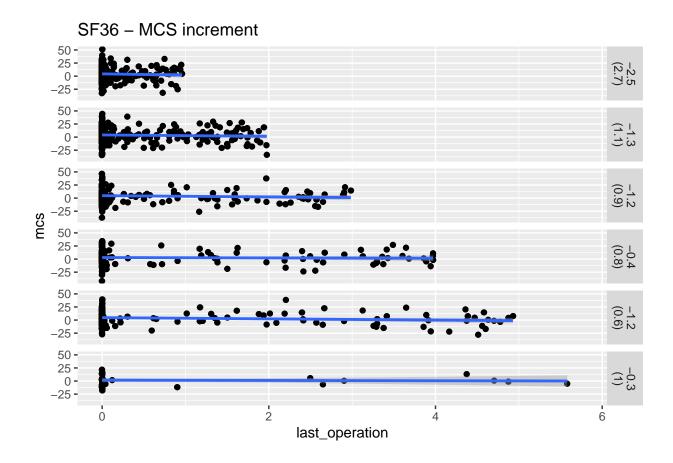


'geom_smooth()' using formula 'y ~ x'

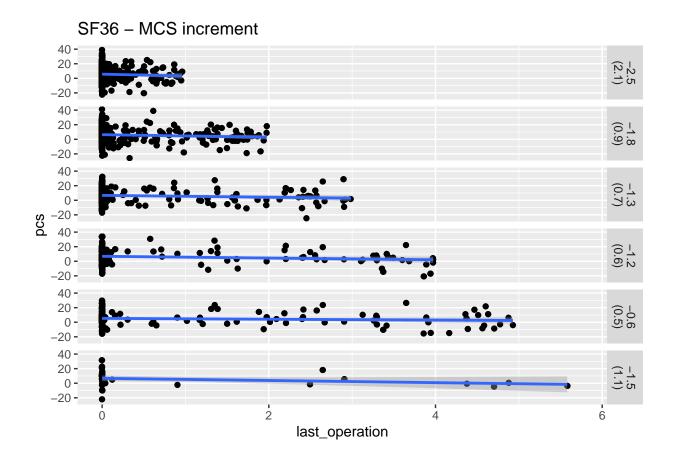
SRS22 Subtotal increment



'geom_smooth()' using formula 'y ~ x'



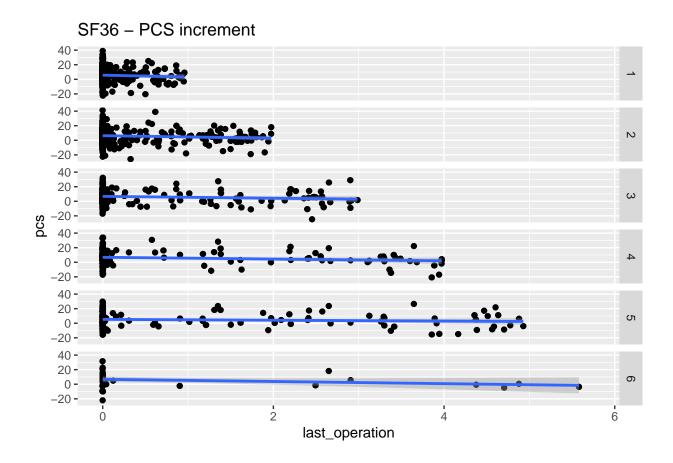
'geom_smooth()' using formula 'y ~ x'



Had Intervention

For each outcome year, whether the pacient had an intervention before the questionaire

'geom_smooth()' using formula 'y ~ x'



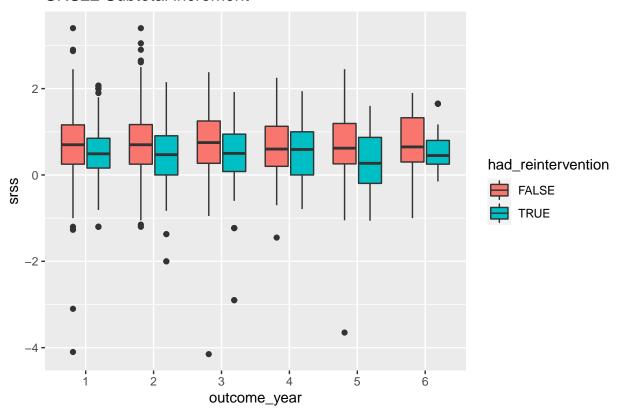
Warning: Removed 6305 rows containing non-finite values (stat_boxplot).

ODI Score increment had_reintervention FALSE TRUE

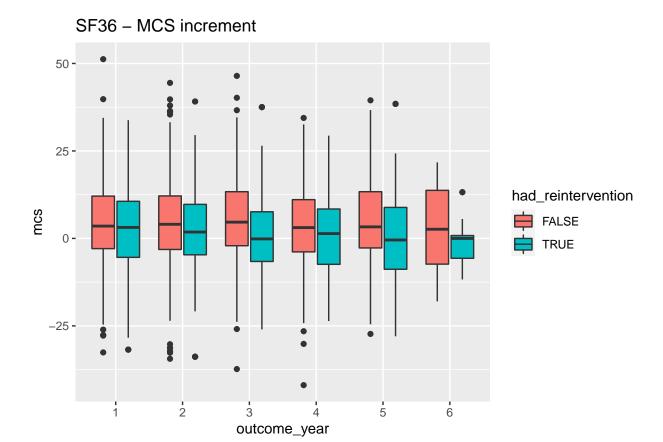
Warning: Removed 6214 rows containing non-finite values (stat_boxplot).

outcome_year

SRS22 Subtotal increment

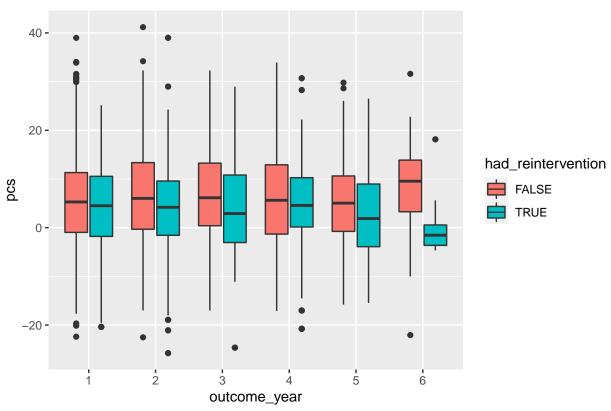


Warning: Removed 6519 rows containing non-finite values (stat_boxplot).



Warning: Removed 6521 rows containing non-finite values (stat_boxplot).





Had intervention evolution

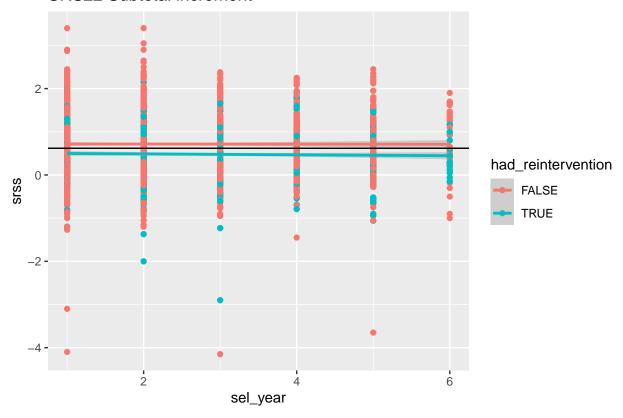
Black lines are the mean value of the score

- ## 'geom_smooth()' using formula 'y ~ x'
- ## Warning: Removed 6305 rows containing non-finite values (stat_smooth).
- ## Warning: Removed 6305 rows containing missing values (geom_point).

ODI Score increment had_reintervention FALSE TRUE

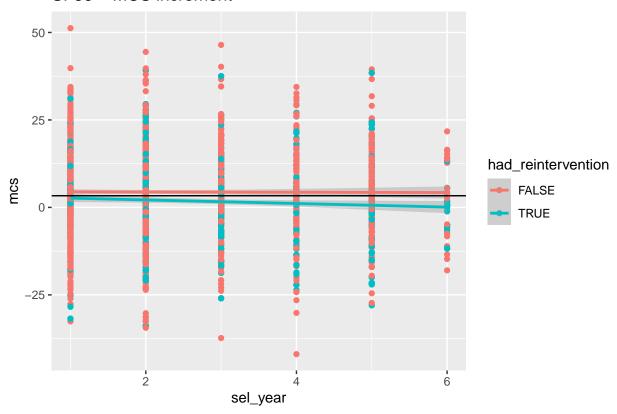
- ## 'geom_smooth()' using formula 'y ~ x'
- ## Warning: Removed 6214 rows containing non-finite values (stat_smooth).
- ## Warning: Removed 6214 rows containing missing values (geom_point).

SRS22 Subtotal increment



- ## 'geom_smooth()' using formula 'y ~ x'
- ## Warning: Removed 6519 rows containing non-finite values (stat_smooth).
- ## Warning: Removed 6519 rows containing missing values (geom_point).

SF36 - MCS increment



- ## 'geom_smooth()' using formula 'y ~ x'
- ## Warning: Removed 6521 rows containing non-finite values (stat_smooth).
- ## Warning: Removed 6521 rows containing missing values (geom_point).

