

AntiBody.Rmd

Thomas.Strehl@at.ibm.com

2021-09-21

Contents

1 Title

1

1 Title

```
## 'data.frame': 16 obs. of 8 variables:
## $ ID : Factor w/ 2 levels "1","2": 1 1 1 1 1 1 1 1 2 ...
## $ Alter : int 62 62 62 62 62 62 62 62 57 ...
## $ Geschlecht: Factor w/ 2 levels "M","W": 1 1 1 1 1 1 1 1 2 ...
## $ Datum : POSIXct, format: "2021-04-30" "2021-04-30" ...
## $ ImpfStatus: Factor w/ 2 levels "ErsteImpfung",...: 1 1 1 1 2 2 2 2 1 ...
## $ ImpfStoff : Factor w/ 2 levels "AstraZeneca",...: 2 2 2 2 2 2 2 2 1 ...
## $ Aktion : Factor w/ 2 levels "AntiKörper","Impfung": 2 1 1 1 2 1 1 1 2 ...
## $ Wert : int 0 1 70 50 0 1803 940 527 323 0 ...

## ID Alter Geschlecht Datum
## 1:9 Min. :57.00 M:9 Min. :2021-03-16 00:00:00
## 2:7 1st Qu.:57.00 W:7 1st Qu.:2021-05-09 00:00:00
## Median :62.00 Median :2021-06-15 00:00:00
## Mean :59.81 Mean :2021-06-17 09:03:45
## 3rd Qu.:62.00 3rd Qu.:2021-07-22 12:00:00
## Max. :62.00 Max. :2021-09-09 00:00:00
## ImpfStatus ImpfStoff Aktion Wert
## ErsteImpfung :7 AstraZeneca :7 AntiKörper:12 Min. : 0.00
## ZweiteImpfung:9 BiontecPfizer:9 Impfung : 4 1st Qu.: 0.75
## Median : 65.00
## Mean : 318.06
## 3rd Qu.: 446.00
## Max. :1803.00

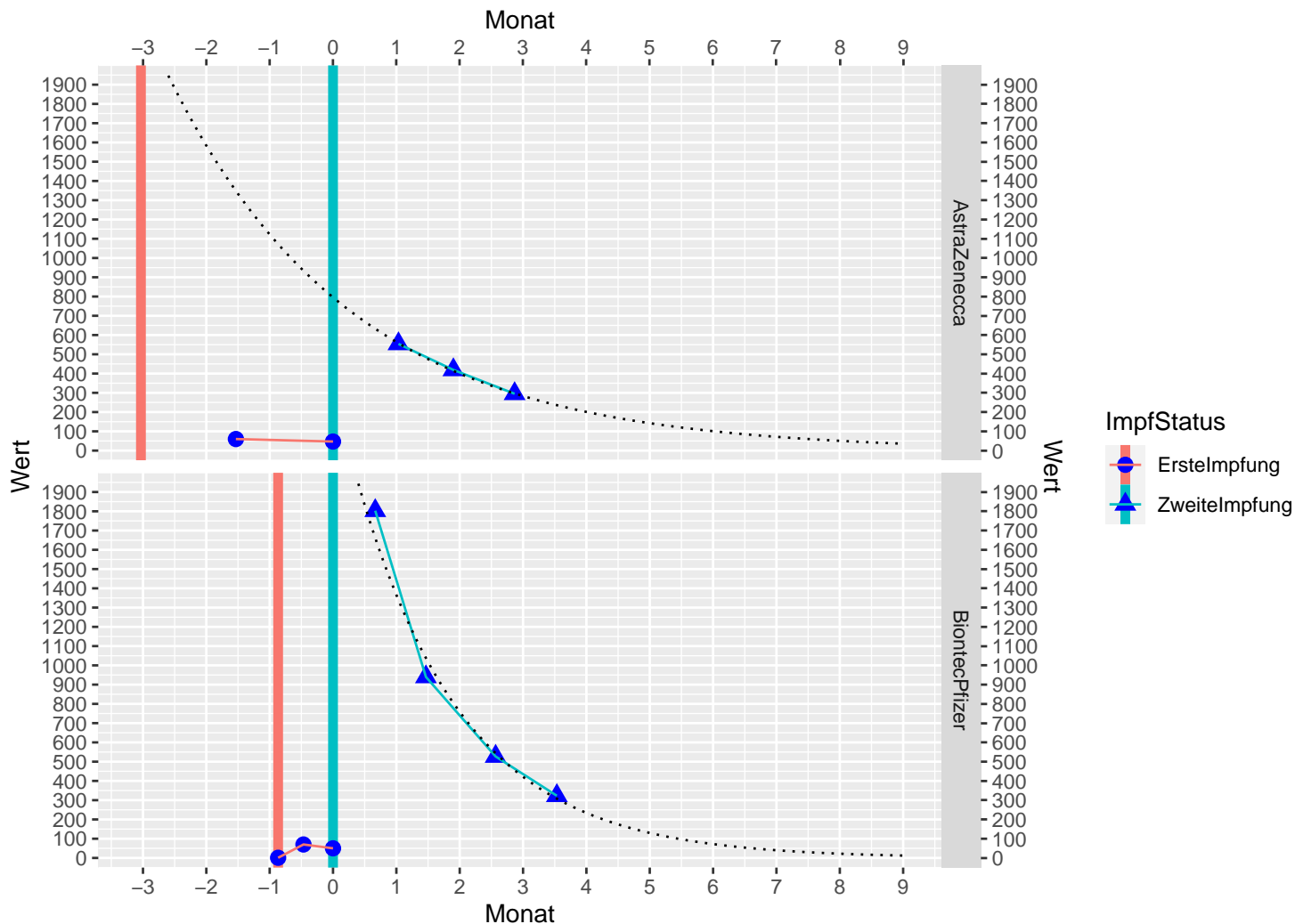
##
## Call:
## lm(formula = log2(Wert) ~ Monat, data = ds1)
##
## Residuals:
## 1 2 3 4
## 0.11803 -0.14290 -0.04450 0.06937
##
## Coefficients:
## Estimate Std. Error t value Pr(>|t|)
## (Intercept) 11.26377 0.15364 73.31 0.000186 ***
## Monat -0.84842 0.06601 -12.85 0.006000 **
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1434 on 2 degrees of freedom
## Multiple R-squared: 0.988, Adjusted R-squared: 0.9821
## F-statistic: 165.2 on 1 and 2 DF, p-value: 0.006
```

```
##      Monat
## 1.178661

##
## Call:
## lm(formula = log2(Wert) ~ Monat, data = ds2)
##
## Residuals:
##      1      2      3
## -0.009430  0.017885 -0.008455
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  9.63616    0.03503   275.06  0.00231 **
## Monat      -0.49644    0.01690   -29.38  0.02166 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.02192 on 1 degrees of freedom
## Multiple R-squared:  0.9988, Adjusted R-squared:  0.9977
## F-statistic: 863.2 on 1 and 1 DF,  p-value: 0.02166

##      Monat
## 2.014328
```

Vaccination and AntiBody Test results: 2 Samples (AgeGroup 55–65, M and W), Exponential



Vaccination and AntiBody Test results: 2 Samples (AgeGroup 55–65, M and W), Exponential

