David

2022-11-16

```
library(xlsx)
library(readxl)
david_proj <- read_excel("david proj.xlsx")
```

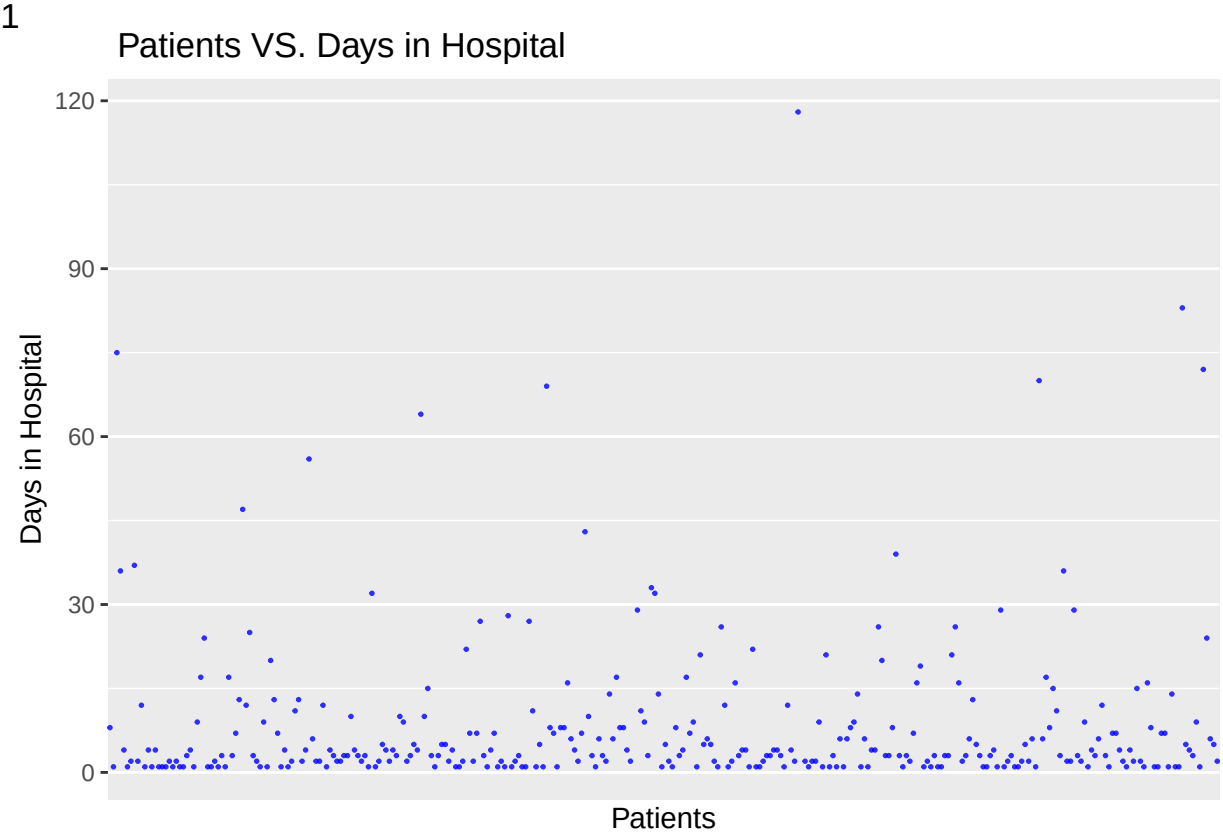
```
H_D <- david_proj[c("ID","Days","UB","ISS","GCS")]
H_D$Days <- as.integer(H_D$Days)
```

```
## Warning: NAs introduced by coercion
```

```
library(ggplot2)
ggplot(data = H_D, mapping = aes(x = ID, y = Days)) +
  geom_point(size = 0.3, color = "blue", alpha = 0.8) +
   scale_x_discrete(breaks = seq(0, 100, by = 5)) +
   labs(title = " Patients VS. Days in Hospital",
       x = "Patients",
       y = "Days in Hospital",
       tag = "1")
```

```
## Warning: Removed 2 rows containing missing values (`geom_point()`).
```

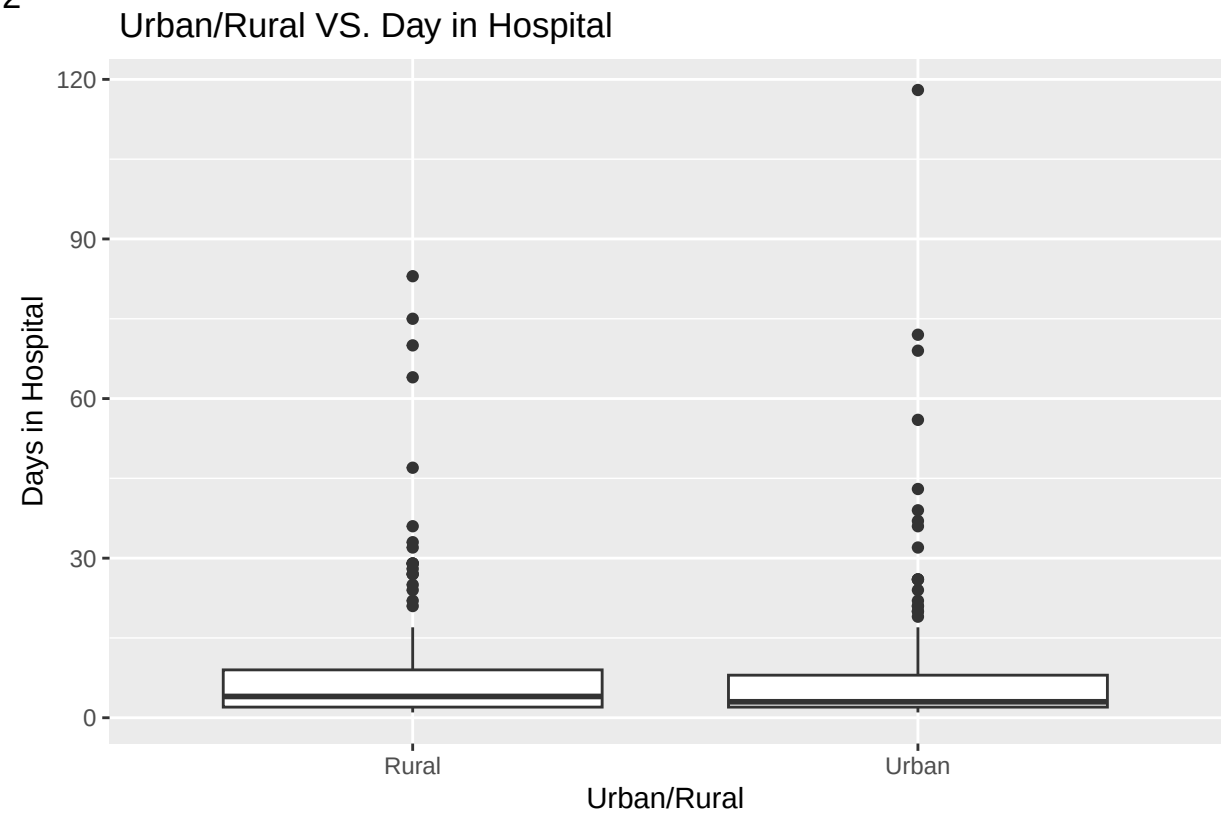
1



```
ggplot(data = H_D, mapping = aes(x = UB, y = Days)) +
  geom_boxplot()+
  labs(title = " Urban/Rural VS. Day in Hospital",
       x = "Urban/Rural",
       y = "Days in Hospital",
       tag = "2")
```

```
## Warning: Removed 2 rows containing non-finite values (`stat_boxplot()`).
```

2



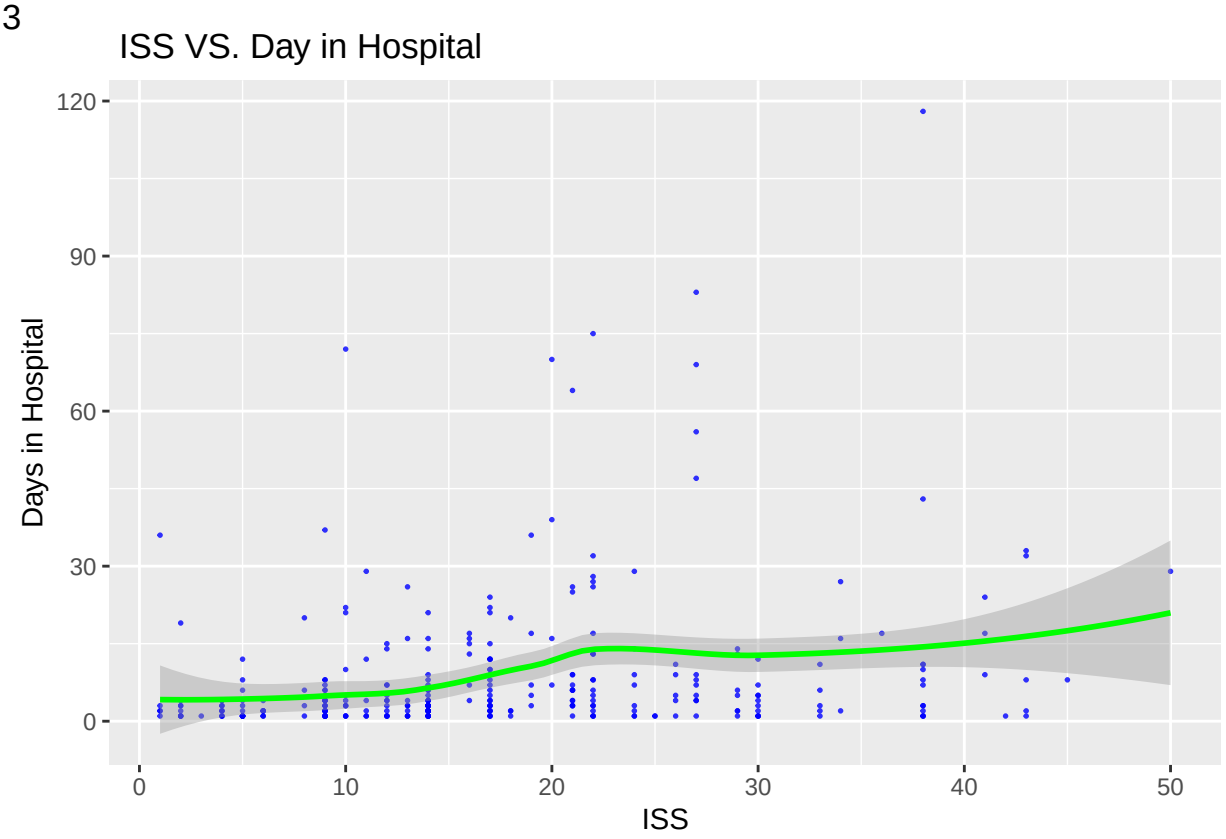

```
ggplot(data = H_D, mapping = aes(x = ISS, y = Days))+
  geom_point(size = 0.3, color = "blue", alpha = 0.8) +
  geom_smooth(color = "green")+
  labs(title = " ISS VS. Day in Hospital",
       x = "ISS",
       y = "Days in Hospital",
       tag = "3")
```

```
## `geom_smooth()` using method = 'loess' and formula = 'y ~ x'
```

```
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
```

```
## Warning: Removed 2 rows containing missing values (`geom_point()`).
```

3



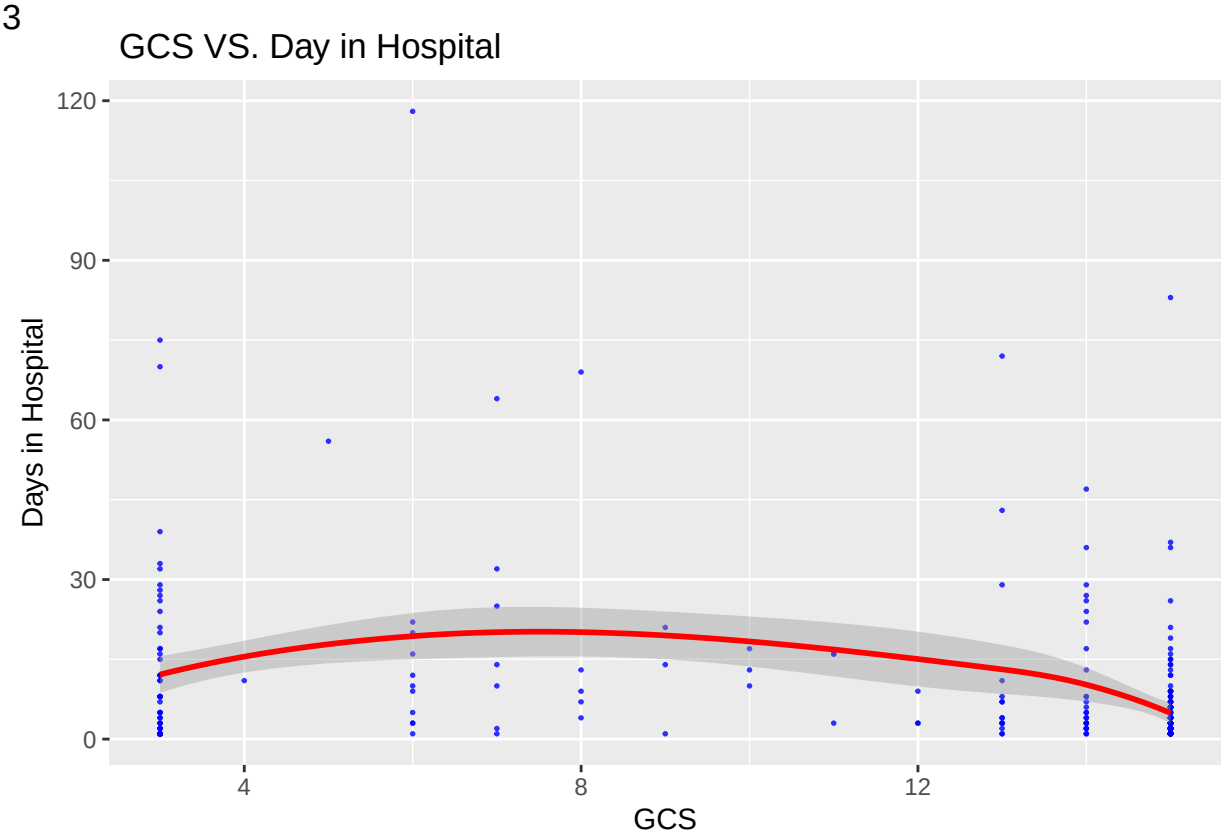

```
ggplot(data = H_D, mapping = aes(x = GCS, y = Days))+
  geom_point(size = 0.3, color = "blue", alpha = 0.8) +
  geom_smooth(color = "red")+
  labs(title = " GCS VS. Day in Hospital",
       x = "GCS",
       y = "Days in Hospital",
       tag = "3")
```

```
## `geom_smooth()` using method = 'loess' and formula = 'y ~ x'
```

```
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
```

```
## Warning: Removed 2 rows containing missing values (`geom_point()`).
```

3

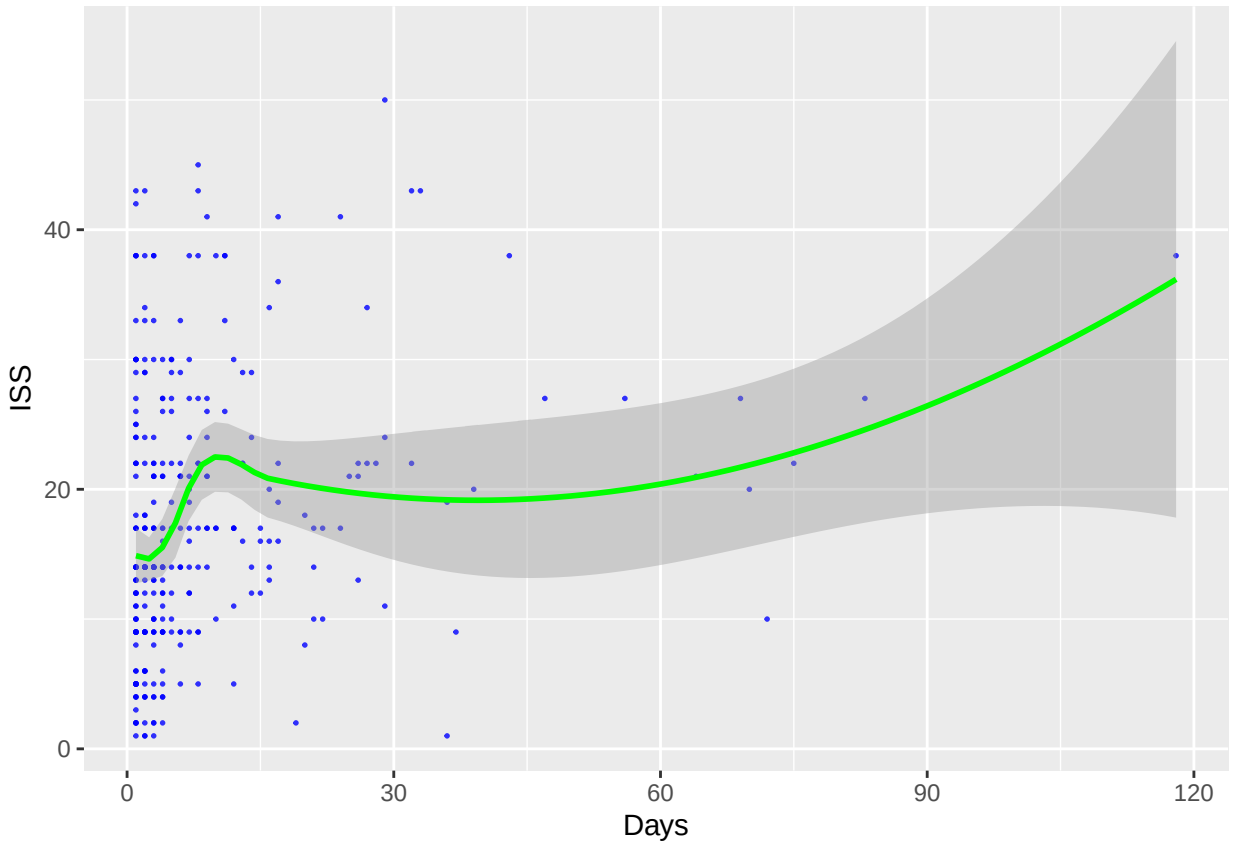



```
ggplot(data = H_D, mapping = aes(x = Days, y = ISS))+
  geom_point(size = 0.3, color = "blue", alpha = 0.8) +
  geom_smooth(color = "green")
```

```
## `geom_smooth()` using method = 'loess' and formula = 'y ~ x'
```

```
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
```

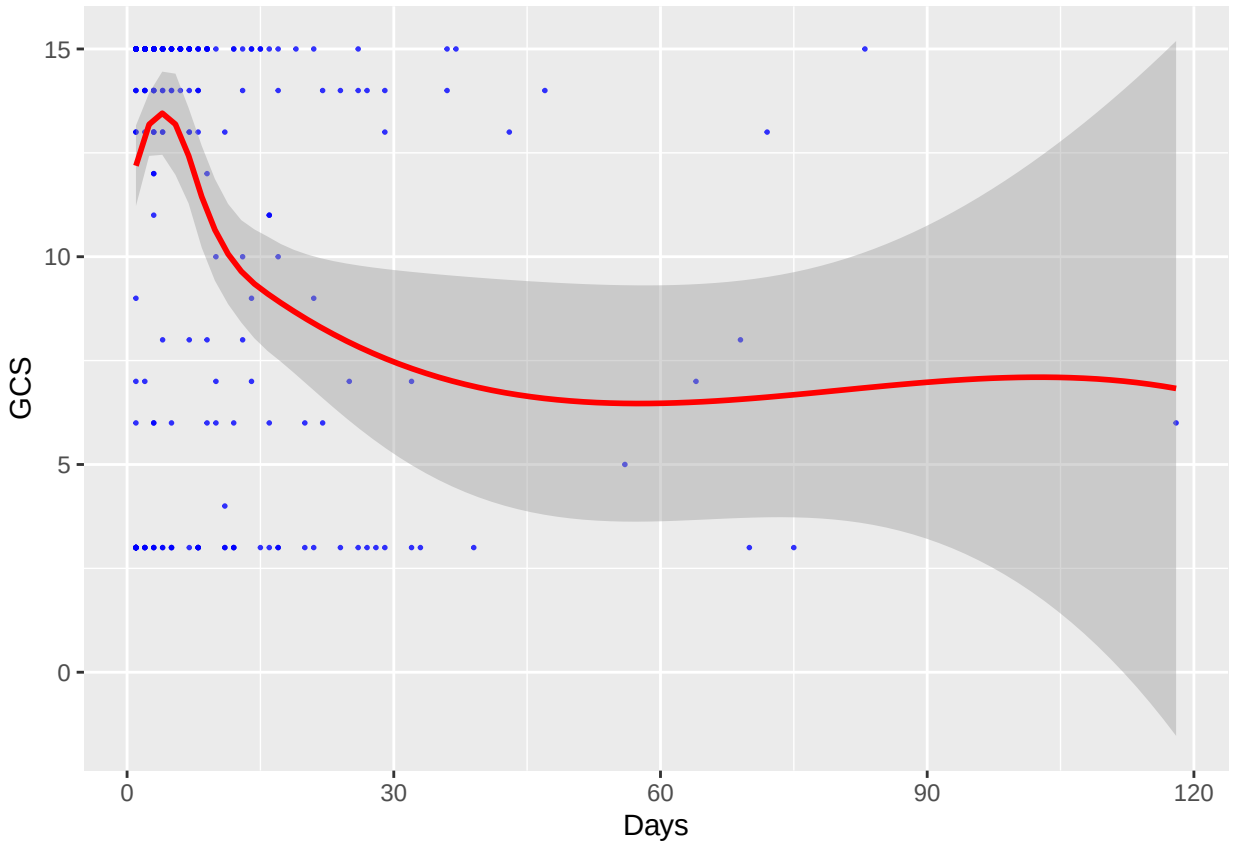
```
## Warning: Removed 2 rows containing missing values (`geom_point()`).
```




```
ggplot(data = H_D, mapping = aes(x = Days, y = GCS))+
  geom_point(size = 0.3, color = "blue", alpha = 0.8) +
  geom_smooth(color = "red")
```

```
## `geom_smooth()` using method = 'loess' and formula = 'y ~ x'
```

```
## Warning: Removed 2 rows containing non-finite values (`stat_smooth()`).
## Removed 2 rows containing missing values (`geom_point()`).
```


15
10
5
0
GCS
0
30
60
90
120
Days