ESAS preliminary analysis

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Preliminary findings from ESAS data - Morton Plant

Current problems:

1. ! Do we remove ESAS values that is too far away from baseline?

2. SOme patients have more than one ED/hospitalization visit dates - do we only analyze the number of visits?

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.2 --
## v ggplot2 3.4.2     v purrr   1.0.1
## v tibble  3.2.1     v dplyr   1.1.1
## v tidyr   1.3.0     v stringr 1.5.0
## v readr   2.1.2     v forcats 1.0.0
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
##
## Attaching package: 'lubridate'
##
##
## The following objects are masked from 'package:base':
##
##     date, intersect, setdiff, union
##
##
##
## Attaching package: 'psych'
##
##
## The following objects are masked from 'package:ggplot2':
##
##     %+%, alpha
##
##
##
## Attaching package: 'scales'
##
##
## The following objects are masked from 'package:psych':
##
##     alpha, rescale
##
##
## The following object is masked from 'package:purrr':
```

```
##
##     discard
##
##
## The following object is masked from 'package:readr':
##
##     col_factor
##
##
## Version:  1.38.5
## Date:     2022-03-03
## Author:   Philip Leifeld (University of Essex)
##
## Consider submitting praise using the praise or praise_interactive functions.
## Please cite the JSS article in your publications -- see citation("texreg").
##
##
## Attaching package: 'texreg'
##
##
## The following object is masked from 'package:tidyr':
##
##     extract
##
##
## Loading required package: Matrix
##
##
## Attaching package: 'Matrix'
##
##
## The following objects are masked from 'package:tidyr':
##
##     expand, pack, unpack
## New names:
## * `Date of ED/Hospitalization Visit` -> `Date of ED/Hospitalization Visit...45`
## * `Indication for Hospitalization/ED visit` -> `Indication for
##   Hospitalization/ED visit...46`
## * `Date of ED/Hospitalization Visit` -> `Date of ED/Hospitalization Visit...47`
## * `Indication for Hospitalization/ED visit` -> `Indication for
##   Hospitalization/ED visit...48`
## * `Date of ED/Hospitalization Visit` -> `Date of ED/Hospitalization Visit...49`
## * `Indication for Hospitalization/ED visit` -> `Indication for
##   Hospitalization/ED visit...50`
## * `Date of ED/Hospitalization Visit` -> `Date of ED/Hospitalization Visit...51`
## * `Indication for Hospitalization/ED visit` -> `Indication for
##   Hospitalization/ED visit...52`
## * `Date of ED/Hospitalization Visit` -> `Date of ED/Hospitalization Visit...53`
## * `Indication for Hospitalization/ED visit` -> `Indication for
##   Hospitalization/ED visit...54`
## * `Date of ED/Hospitalization Visit` -> `Date of ED/Hospitalization Visit...55`
## * `Indication for Hospitalization/ED visit` -> `Indication for
##   Hospitalization/ED visit...56`
```

```
## * `Date of ED/Hospitalization Visit` -> `Date of ED/Hospitalization Visit...57`
## * `Indication for Hospitalization/ED visit` -> `Indication for
##   Hospitalization/ED visit...58`
## * `Date of ED/Hospitalization Visit` -> `Date of ED/Hospitalization Visit...59`
## * `Indication for Hospitalization/ED visit` -> `Indication for
##   Hospitalization/ED visit...60`
## * `Date of ED/Hospitalization Visit` -> `Date of ED/Hospitalization Visit...61`
## * `Indication for Hospitalization/ED visit` -> `Indication for
##   Hospitalization/ED visit...62`
## * `Date of ED/Hospitalization Visit` -> `Date of ED/Hospitalization Visit...63`
## * `Indication for Hospitalization/ED visit` -> `Indication for
##   Hospitalization/ED visit...64`
## * `Date of ED/Hospitalization Visit` -> `Date of ED/Hospitalization Visit...65`
## * `Indication for Hospitalization/ED visit` -> `Indication for
##   Hospitalization/ED visit...66`
## * `Date of ED/Hospitalization Visit` -> `Date of ED/Hospitalization Visit...67`
## * `Indication for Hospitalization/ED visit` -> `Indication for
##   Hospitalization/ED visit...68`
## * `Date of ED/Hospitalization Visit` -> `Date of ED/Hospitalization Visit...69`
## * `Indication for Hospitalization/ED visit` -> `Indication for
##   Hospitalization/ED visit...70`
```

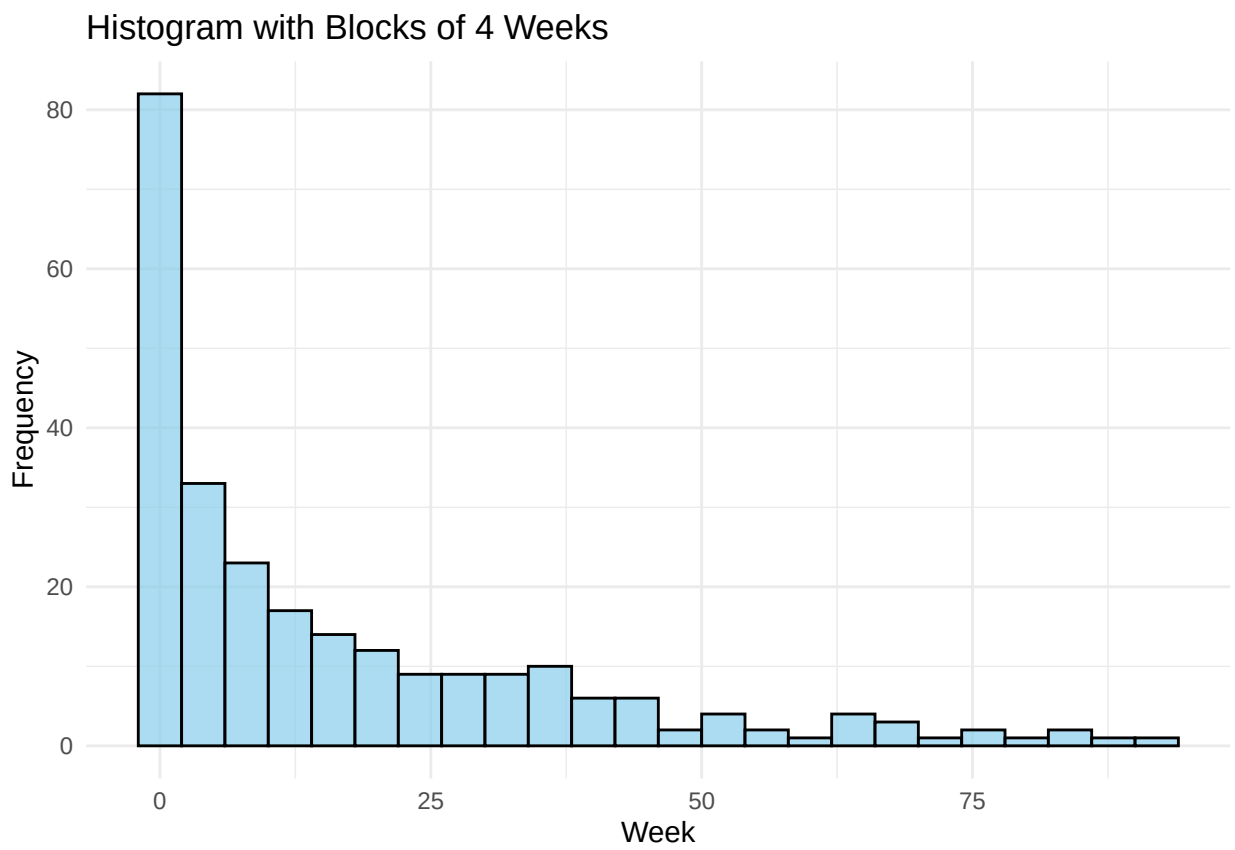
There are 254 observations, and 58 patients.

The following are the destribution of the weeks

```
#|label: tbl-weeks
describe(ESAS$week) %>%
  as.data.frame() %>%
  select(-vars, - trimmed, -mad) %>%
  gt() %>%
  cols_align(align = "center")%>%
  fmt_number(c(mean, sd, median, min, max, range, skew, kurtosis, se), decimals = 1)%>%
  tab_options(table.width = "100%")
```

n	mean	sd	median	min	max	range	skew	kurtosis	se
254	16.9	20.8	8.0	0.0	93.0	93.0	1.5	1.8	1.3

Histogram with blocks of 4 weeks - Remove



Plot spaghetti plot