DEPARTMENT OF CLINICAL RESEARCH

Title

Subtitle

DCR project number: XXXX

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1 Section 1

You can use the usual '$' for mathematical expressions within a text $Y_t = a + bX + Y_1 + \epsilon$

or indent with '$$'

$$Y_t = a + bX + Y_1 + \epsilon$$

1.1 Subsection

Subsection

2 Raw typst

For raw typst code you can use **typst chunks**. Raw typst coding might be useful in tables, because you can use R output in typst chunks:

```
value_1 <- 1
value_2 <- 2
value_3 <- 3
value_4 <- 4
```

Hypothesis	Group	Assumed value
Null hypothesis	Control arm	1
Null hypothesis	Experimental arm	2
Alternative hypothesis 1	Control arm	3
Alternative hypothesis 1	Combined dosage arms	4

2.1 Tinytable

The *tinytable* packages table allows typst-specific table layout, for example, colouring:

```
library(tidyverse)
library(tinytable)

output <- tibble(kpi=c(1,1,2,5), center=c("A", "B", "C", "D"))

output$kpi_ind <- NA
output$kpi_ind[output$kpi==1] <- 1
output$kpi_ind[output$kpi>1 & output$kpi<=2] <- 2
output$kpi_ind[output$kpi>2 & output$kpi<=4] <- 3
output$kpi_ind[output$kpi>4] <- 4

output$kpi_ind <- factor(output$kpi_ind, levels=1:4,
                         labels=c("#ff0000", "#ffa500", "#90ee90", "#32cd32"))

output_colours <- rep(as.character(output$kpi_ind), 1)
```

```
no_rows <- nrow(output)
colour_column <- ncol(output)-1

output <- output |> select(!kpi_ind) |> tt() |>
  format_tt(digits=2) |> style_tt(i=0, bold=T)

for (i in 1:nrow(output)) {

    output <- output |> style_tt(i = i,
                                 j = colour_column,
                                 background = output_colours[i],
                                 color = "black")


}
output
```

kpi	center
1	A
1	B
2	C
5	D

3 Revision history

Version	Date	Revision changes
0	Date	

4 Reproducibility

R packages used in the analysis:

```
options(width = 90)
sessionInfo()
```

```
R version 4.2.3 (2023-03-15)
Platform: x86_64-apple-darwin17.0 (64-bit)
Running under: macOS Big Sur ... 10.16

Matrix products: default
BLAS:   /Library/Frameworks/R.framework/Versions/4.2/Resources/lib/libRblas.0.dylib
LAPACK: /Library/Frameworks/R.framework/Versions/4.2/Resources/lib/libRlapack.dylib

locale:
```

```
[1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8

attached base packages:
[1] stats     graphics  grDevices utils     datasets  methods   base

other attached packages:
 [1] tinytable_0.3.0.2 lubridate_1.9.3   forcats_1.0.0     stringr_1.5.1
 [5] dplyr_1.1.4       purrr_1.0.2       readr_2.1.5       tidyr_1.3.0
 [9] tibble_3.2.1      ggplot2_3.4.4     tidyverse_2.0.0

loaded via a namespace (and not attached):
 [1] Rcpp_1.0.12       later_1.3.2       pillar_1.9.0      compiler_4.2.3
 [5] tools_4.2.3       digest_0.6.34     timechange_0.2.0  jsonlite_1.8.8
 [9] evaluate_0.23     lifecycle_1.0.4   gtable_0.3.4      pkgconfig_2.0.3
[13] rlang_1.1.3       cli_3.6.2         rstudioapi_0.15.0 yaml_2.3.8
[17] xfun_0.41         fastmap_1.1.1     withr_2.5.2       knitr_1.45
[21] generics_0.1.3    vctrs_0.6.5       hms_1.1.3         grid_4.2.3
[25] tidyselect_1.2.0  glue_1.7.0        R6_2.5.1          processx_3.8.3
[29] fansi_1.0.6       rmarkdown_2.25    tzdb_0.4.0        magrittr_2.0.3
[33] ps_1.7.5          scales_1.3.0      htmltools_0.5.7   colorspace_2.1-0
[37] utf8_1.2.4        stringi_1.8.3     munsell_0.5.0     quarto_1.3
```