Reproducible documents

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library(tidyverse)

Warning: pakke 'tidyverse' blev bygget under R version 4.4.3

Warning: pakke 'purrr' blev bygget under R version 4.4.3

Warning: pakke 'lubridate' blev bygget under R version 4.4.3

── Attaching core tidyverse packages ──────────────────────── tidyverse 2.0.0 ──  
✔ dplyr 1.1.4 ✔ readr 2.1.5   
✔ forcats 1.0.0 ✔ stringr 1.5.1   
✔ ggplot2 3.5.1 ✔ tibble 3.2.1   
✔ lubridate 1.9.4 ✔ tidyr 1.3.1.9000  
✔ purrr 1.0.4   
── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
✖ dplyr::filter() masks stats::filter()  
✖ dplyr::lag() masks stats::lag()  
ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

post\_meal\_data <- read\_csv2(here::here("data/post-meal-insulin.csv"))

ℹ Using "','" as decimal and "'.'" as grouping mark. Use `read\_delim()` for more control.  
Rows: 31 Columns: 85── Column specification ────────────────────────────────────────────────────────  
Delimiter: ";"  
chr (2): OFS.ID, Group  
dbl (83): Age, BMI, Length, Weight, Bone.mineral.DXA, Fat.mass...DXA, Fat.ma...  
ℹ Use `spec()` to retrieve the full column specification for this data.  
ℹ Specify the column types or set `show\_col\_types = FALSE` to quiet this message.

## About me

* Victoria Bøttker
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* Aarhus University hospital, The department of Gynecology and Obstetrics

I am a 25-year-old **medical** student doing a research year at the department of Gynecology and obstetrics. The research is about threatened *preterm birth*.

## Simple code

3\*3

[1] 9

## Testing for Git

The weather is medium. Not sunny, not rainy - but cloudy.

## Showing the data

post\_meal\_data

# A tibble: 31 × 85  
 OFS.ID Group Age BMI Length Weight Bone.mineral.DXA Fat.mass...DXA  
 <chr> <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>  
 1 OFS 301 FDR 50 27.5 1.83 92 3.54 30.2  
 2 OFS 302 FDR 51 33.7 1.77 106. 4.05 36.4  
 3 OFS 304 FDR 43 26.3 1.84 89.1 3.77 24.4  
 4 OFS 303 FDR 55 25.9 1.8 84 3.14 27.5  
 5 OFS 305 FDR 53 29.4 1.84 99.4 4.09 31.2  
 6 OFS 306 FDR 51 23.7 1.8 76.8 3.21 20   
 7 OFS 307 FDR 48 23.9 1.78 75.8 3.33 15.4  
 8 OFS 308 FDR 35 22 1.75 67.5 3.26 13.8  
 9 OFS 309 FDR 54 26.4 1.83 87.9 4.49 20   
10 OFS 310 FDR 52 24.5 1.72 72.2 2.87 28.5  
# ℹ 21 more rows  
# ℹ 77 more variables: Fat.mass.DXA <dbl>, Fat.free.mass.DXA <dbl>,  
# Fat.free.soft.tissue.DXA <dbl>, FP.Glucose.screen <dbl>,  
# P.Glucose..5.OGTT <dbl>, P.Glucose.0.OGTT <dbl>, P.GLucose.30.OGTT <dbl>,  
# P.Glucose.60.OGTT <dbl>, P.Glucose.90.OGTT <dbl>, P.Glucose.120.OGTT <dbl>,  
# FS.Insulin.screen <dbl>, Insulin..5.OGTT.X <dbl>, Insulin.0.OGTT.X <dbl>,  
# Insulin.0.OGTT <dbl>, Insulin.30.OGTT <dbl>, Insulin.60.OGTT <dbl>, …

glimpse(post\_meal\_data)

Rows: 31  
Columns: 85  
$ OFS.ID <chr> "OFS 301", "OFS 302", "OFS 304", "OFS 303", "…  
$ Group <chr> "FDR", "FDR", "FDR", "FDR", "FDR", "FDR", "FD…  
$ Age <dbl> 50, 51, 43, 55, 53, 51, 48, 35, 54, 52, 47, 3…  
$ BMI <dbl> 27.5, 33.7, 26.3, 25.9, 29.4, 23.7, 23.9, 22.…  
$ Length <dbl> 1.83, 1.77, 1.84, 1.80, 1.84, 1.80, 1.78, 1.7…  
$ Weight <dbl> 92.0, 105.6, 89.1, 84.0, 99.4, 76.8, 75.8, 67…  
$ Bone.mineral.DXA <dbl> 3.54, 4.05, 3.77, 3.14, 4.09, 3.21, 3.33, 3.2…  
$ Fat.mass...DXA <dbl> 30.2, 36.4, 24.4, 27.5, 31.2, 20.0, 15.4, 13.…  
$ Fat.mass.DXA <dbl> 27.9, 38.7, 21.9, 23.2, 31.2, 15.3, 11.8, 9.4…  
$ Fat.free.mass.DXA <dbl> 64.34, 67.75, 67.97, 61.14, 68.99, 60.91, 64.…  
$ Fat.free.soft.tissue.DXA <dbl> 60.8, 63.7, 64.2, 58.0, 64.9, 57.7, 61.6, 55.…  
$ FP.Glucose.screen <dbl> 5.1, 5.2, 4.8, 5.0, 5.5, 5.4, 4.9, 5.0, 4.8, …  
$ P.Glucose..5.OGTT <dbl> 5.1, 5.6, 5.0, 5.3, 5.6, 5.8, 5.1, 5.3, 5.0, …  
$ P.Glucose.0.OGTT <dbl> 5.10, 5.40, 4.90, 5.15, 5.55, 5.60, 5.00, 5.1…  
$ P.GLucose.30.OGTT <dbl> 9.4, 8.4, 6.8, 8.8, 9.9, 8.9, 7.6, 6.4, 7.4, …  
$ P.Glucose.60.OGTT <dbl> 6.9, 8.4, 4.3, 8.4, 10.6, 9.1, 6.3, 7.6, 6.8,…  
$ P.Glucose.90.OGTT <dbl> 4.7, 8.7, 3.8, 7.5, 11.0, 7.1, 5.3, 6.3, 5.5,…  
$ P.Glucose.120.OGTT <dbl> 4.3, 7.2, 4.3, 6.3, 7.6, 7.0, 3.5, 6.5, 4.9, …  
$ FS.Insulin.screen <dbl> 50.0, 97.2, 20.8, 41.0, 41.0, 30.6, 36.8, 31.…  
$ Insulin..5.OGTT.X <dbl> 53.4765, 90.2850, 20.8350, 52.0875, 44.4480, …  
$ Insulin.0.OGTT.X <dbl> 51.74025, 93.75750, 20.83500, 46.53150, 42.71…  
$ Insulin.0.OGTT <dbl> 310.4415, 562.5450, 125.0100, 279.1890, 256.2…  
$ Insulin.30.OGTT <dbl> 368.085, 486.150, 173.625, 638.940, 430.590, …  
$ Insulin.60.OGTT <dbl> 645.885, 673.665, 118.065, 1180.650, 361.140,…  
$ Insulin.90.OGTT <dbl> 326.4150, 972.3000, 90.2850, 1250.1000, 527.8…  
$ Insulin.120.OGTT <dbl> 201.4050, 694.5000, 69.4500, 902.8500, 284.74…  
$ PG.15 <dbl> 5.4, 5.2, 4.9, 4.8, 5.9, 5.0, 5.0, 4.6, 5.3, …  
$ PG.5 <dbl> 5.4, 5.4, 5.0, 4.8, 5.8, 4.9, 5.1, 4.6, 5.1, …  
$ PG1 <dbl> 5.4, 5.4, 5.1, 4.8, 5.8, 5.1, 5.0, 4.9, 5.2, …  
$ PG2 <dbl> 5.5, 5.4, 5.1, 4.8, 5.9, 5.1, 5.0, 4.9, 5.3, …  
$ PG3 <dbl> 5.3, 5.4, 5.1, 4.7, 5.8, 5.1, 5.1, 4.9, 5.4, …  
$ PG5 <dbl> 5.3, 5.4, 5.0, 4.9, 5.8, 5.0, 5.1, 4.8, 5.2, …  
$ PG8 <dbl> 5.5, 5.5, 5.1, 4.9, 5.7, 5.0, 5.1, 4.7, 5.2, …  
$ PG10 <dbl> 5.5, 5.6, 5.1, 5.1, 5.7, 5.0, 5.2, 4.8, 5.4, …  
$ PG15 <dbl> 5.8, 6.0, 5.0, 5.3, 6.2, 5.5, 5.7, 5.1, 6.0, …  
$ PG20 <dbl> 6.1, 6.5, 5.2, 5.1, 7.2, 5.6, 6.1, 5.5, 6.4, …  
$ PG30 <dbl> 6.9, 7.5, 5.5, 5.5, 8.0, 6.1, 7.9, 6.5, 7.1, …  
$ PG45 <dbl> 7.6, 7.8, 5.8, 6.2, 9.3, 6.4, 9.8, 7.3, 7.2, …  
$ PG60 <dbl> 6.5, 7.5, 5.6, 6.7, 9.1, 5.9, 9.4, 6.2, 6.8, …  
$ PG90 <dbl> 5.3, 7.5, 4.5, 5.0, 7.6, 4.8, 7.3, 4.7, 6.6, …  
$ PG120 <dbl> 5.1, 7.5, 5.0, 4.7, 5.8, 3.8, 5.0, 4.9, 5.2, …  
$ CP.15 <dbl> 0.93, 0.99, 0.39, 0.84, 0.69, 0.51, 0.64, 0.3…  
$ CP.5 <dbl> 0.08, 1.05, 0.40, 0.81, 0.69, 0.51, 0.64, 0.3…  
$ CP1 <dbl> 0.90, 1.05, 0.41, 0.79, 0.71, 0.53, 0.60, 0.3…  
$ CP2 <dbl> 0.96, 1.07, 0.41, 0.79, 0.74, 0.54, 0.64, 0.4…  
$ CP3 <dbl> 0.95, 1.10, 0.41, 0.80, 0.80, 0.53, 0.66, 0.4…  
$ CP5 <dbl> 1.01, 1.15, 0.44, 0.96, 0.84, 0.57, 0.70, 0.3…  
$ CP8 <dbl> 1.09, 1.24, 0.45, 0.92, 0.82, 0.62, 0.70, 0.3…  
$ CP10 <dbl> 1.10, 1.19, 0.45, 0.93, 0.78, 0.59, 0.73, 0.3…  
$ CP15 <dbl> 1.120, 1.390, 0.410, 1.000, 0.890, 0.820, 0.0…  
$ CP20 <dbl> 1.23, 1.67, 0.46, 0.97, 1.22, 0.82, 0.90, 0.4…  
$ CP30 <dbl> 1.52, 2.10, 0.57, 0.95, 1.50, 0.93, 1.42, 0.9…  
$ CP45 <dbl> 2.60, 2.00, 0.75, 1.50, 1.83, 1.07, 1.78, 1.5…  
$ CP60 <dbl> 2.40, 2.20, 0.89, 2.20, 2.10, 1.19, 2.20, 1.6…  
$ CP90 <dbl> 2.20, 2.60, 0.76, 2.70, 2.70, 1.51, 2.30, 0.8…  
$ CP120 <dbl> 1.61, 3.00, 0.70, 2.20, 2.00, 1.34, 1.51, 0.6…  
$ Insulin.15 <dbl> 76.3950, 83.3400, 19.4460, 76.3950, 56.9490, …  
$ Insulin.5 <dbl> 66.9450, 104.1750, 21.5295, 69.4500, 52.7820,…  
$ Insulin1 <dbl> 67.3665, 97.2300, 22.2240, 65.9775, 51.3930, …  
$ Insulin2 <dbl> 76.3950, 97.2300, 22.9185, 63.8940, 64.5885, …  
$ Insulin3 <dbl> 83.3400, 90.2850, 23.6130, 69.4500, 58.3380, …  
$ Insulin5 <dbl> 90.2850, 125.0100, 30.5580, 111.1200, 76.3950…  
$ Insulin8 <dbl> 104.1750, 152.7900, 29.1690, 97.2300, 66.6720…  
$ Insulin10 <dbl> 97.2300, 138.9000, 26.3910, 90.2850, 59.0325,…  
$ Insulin15 <dbl> 111.1200, 194.4600, 22.2240, 125.0100, 97.230…  
$ Insulin20 <dbl> 138.9000, 291.6900, 32.6415, 111.1200, 201.40…  
$ Insulin30 <dbl> 187.515, 319.470, 54.171, 104.175, 270.855, 1…  
$ Insulin45 <dbl> 465.315, 381.975, 76.395, 270.855, 326.415, 1…  
$ Insulin60 <dbl> 305.5800, 333.3600, 97.2300, 493.0950, 347.25…  
$ Insulin90 <dbl> 222.2400, 395.8650, 44.4480, 458.3700, 381.97…  
$ Insulin120 <dbl> 138.9000, 465.3150, 50.6985, 250.0200, 180.57…  
$ id <dbl> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14…  
$ iauc\_cp <dbl> 118.24750, 144.46000, 35.96000, 120.63500, 14…  
$ auc\_cp <dbl> 236.900, 278.110, 88.610, 233.540, 238.325, 1…  
$ iauc\_pg <dbl> 82.97500, 242.20000, 39.43182, 83.75000, 209.…  
$ auc\_pg <dbl> 805.55, 944.20, 693.95, 731.15, 1003.75, 712.…  
$ iauc\_ins <dbl> 18522.315, 30992.062, 4482.650, 27388.765, 26…  
$ auc\_ins <dbl> 28728.44, 42242.96, 7107.86, 37592.94, 33862.…  
$ kef\_ins <dbl> 145.49775, 147.23400, 34.03050, 164.29266, 10…  
$ kef\_cp <dbl> 145.49775, 147.23400, 34.03050, 164.29266, 10…  
$ kef\_glu <dbl> 145.49775, 147.23400, 34.03050, 164.29266, 10…  
$ iauc\_cp\_e <dbl> 98.72500, 120.30000, 29.00500, 110.17500, 134…  
$ iauc\_pg\_e <dbl> 75.00000, 193.75000, 23.28409, 57.08824, 231.…  
$ iauc\_ins\_e <dbl> 16095.038, 24307.500, 3638.138, 25713.862, 25…  
$ glykemi <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, …