

PruebaPDF.R

jdl

2024-08-13

```
# Cargar paquetes-----
library(car)

## Loading required package: carData

library(ggstats)
library(tidyverse)

## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr      1.1.4      v readr      2.1.5
## v forcats    1.0.0      v stringr    1.5.1
## v ggplot2    3.5.1      v tibble     3.2.1
## v lubridate  1.9.3      v tidyr      1.3.1
## v purrr      1.0.2

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
## x dplyr::recode() masks car::recode()
## x purrr::some()   masks car::some()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

library(ggpubr)
library(readxl)
library(lmerTest)

## Loading required package: lme4
## Loading required package: Matrix
##
## Attaching package: 'Matrix'
##
## The following objects are masked from 'package:tidyr':
##
##   expand, pack, unpack
##
## Attaching package: 'lmerTest'
##
## The following object is masked from 'package:lme4':
##
##   lmer
##
## The following object is masked from 'package:stats':
##
##   step
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library(emmeans)

## Welcome to emmeans.
## Caution: You lose important information if you filter this package's results.
## See '? untidy'

library(knitr)
library(kableExtra)

##
## Attaching package: 'kableExtra'
##
## The following object is masked from 'package:dplyr':
##
##   group_rows

library(performance)
library(MuMIn)
library(tictoc)
library(GGally)

## Registered S3 method overwritten by 'GGally':
##   method from
##   +.gg      ggplot2
##
## Attaching package: 'GGally'
##
## The following object is masked from 'package:emmeans':
##
##   pigs

library(scales)

##
## Attaching package: 'scales'
##
## The following object is masked from 'package:purrr':
##
##   discard
##
## The following object is masked from 'package:readr':
##
##   col_factor

# Functions-----
corr.stars <- function(x) {
  require(Hmisc)
  x <- as.matrix(x)
  R <- rcorr(x)$r
  p <- rcorr(x)$P
  # define notions for significance levels; spacing is important.
  mystars <- ifelse(p < .001,
                    paste0(round(R, 2), "***"),
                    ifelse(p < .01,
                           paste0(round(R, 2), "**"),
                           ifelse(p < .05,

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        paste0(round(R, 2), "*"),
        ifelse(p < .10,
              paste0(round(R, 2), "†"),
              format(round(R, 2), nsmall = 2))))
# build a new matrix that includes the correlations with their appropriate stars
Rnew <- matrix(mystars,
              ncol = ncol(x))
diag(Rnew) <- paste(diag(R), " ",
                  sep = "")
rownames(Rnew) <- colnames(x)
colnames(Rnew) <- paste(colnames(x), "",
                      sep = "")
# remove upper triangle
Rnew <- as.matrix(Rnew)
Rnew[upper.tri(Rnew, diag = TRUE)] <- ""
Rnew <- as.data.frame(Rnew)
# remove last column and return the matrix (which is now a data frame)
Rnew <- cbind(Rnew[1:length(Rnew) - 1])
return(Rnew)
}

# Cargar datos----

## Eye-tracking----
dat_et <- read_excel("Datos/BD-ET-CUC-UB.xlsx",
                    sheet = "CUC-UB") |>
select(-c(Participant, Condicion, TOI, Interval, Media_respuesta, AOI, AOI_Global, Respuesta, Number_)
rename(ID = Recording,
       University = UNIVERSIDAD,
       Stimulus = Media,
       Condition = Condición,
       Relationship = Contexto,
       Sexual_dimorphism = Rostro,
       TDF = Total_duration_of_whole_fixations,
       NF = Number_of_whole_fixations,
       TFF = Time_to_first_whole_fixation,
       NMC = Number_of_mouse_clicks...21,
       TFMC = Time_to_first_mouse_click...22) |>
mutate(across(where(is.character), as.factor)) |>
mutate(Condition = fct_recode(Condition,
                             "Low" = "BAJA",
                             "High" = "ALTA"),
       Relationship = fct_recode(Relationship,
                                "Short term" = "CP",
                                "Long term" = "LP"),
       Sexual_dimorphism = fct_recode(Sexual_dimorphism,
                                      "Feminized" = "Feminizado",
                                      "Masculinized" = "Masculinizado")) |>
mutate(Stimulus = ifelse(Sexual_dimorphism == "Feminized", paste0(str_sub(str_replace(Stimulus, ".*" -
                                      ifelse(Sexual_dimorphism == "Masculinized", paste0(str_sub(str_replace(Stimulus),
Stimulus))),
Choice = ifelse(NMC == 0, "No", "Yes"))

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New names:

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## * 'Number_of_mouse_clicks' -> 'Number_of_mouse_clicks...17'
## * 'Time_to_first_mouse_click' -> 'Time_to_first_mouse_click...18'
## * 'Number_of_mouse_clicks' -> 'Number_of_mouse_clicks...21'
## * 'Time_to_first_mouse_click' -> 'Time_to_first_mouse_click...22'

## Cuestionarios----
### Sin calcular puntajes totales de instrumentos, para ver consistencia interna
quests <- read_excel("Datos/Cuestionario Datos Sociodemográficos (Disponibilidad) (respuestas) (1).xlsx",
                     sheet = "Respuestas de formulario 1") |>
select(-c(Invitado, `Servicios ayuda`, `Correos cierre`)) |>
rename(Date = Fecha,
       Age = edad,
       City = Ciudad,
       Education = Escolaridad,
       Ethnicity = Etnia,
       Gender = Sexo,
       Sex = Genero,
       Sexual_orientation = OS,
       Relationship_current = "Pareja actual",
       Relationship_duration = DuracionR,
       Relationship_status = EstadoR,
       Partner_sex = SexoParejaActual,
       Partner_masculinity = Masculinidad_pareja,
       Partner_dominance = Dominancia_pareja,
       Partner_attractiveness = Atractivo_pareja,
       Number_of_children = NumHijos,
       Hormonal_contraception = "Anticonceptivos hormonales",
       Contraceptive = Cual_anticonceptivo,
       Last_menstruation = "Ultima menstruacion",
       Currently_pregnant = "Embarazo actual",
       Sexual_abuse = "Experiencia abuso sexual",
       Comments = comentarios1,
       Medical_history = "antecedentes medicos",
       SP_happiness = "AP felicidad",
       SP_financial_security = "AP seguridad economica",
       SP_money_control = "AP control dinero",
       SP_attractiveness = "AP atractivo",
       SP_self_confidence = "AP autoconfianza",
       SP_self_esteem = "AP autoestima",
       SP_health = "AP salud",
       Electricity = "SB electricidad",
       Internet_access = "SB internet",
       TV = "SB television",
       Internet_use = "Fr acceso internet",
       Hospital_access = "Acceso hospital",
       Freq_illness = "Fr enfermedades",
       Socioeconomic_level = "Estrato socioeconomico",
       Neighborhood = "Barrio de residencia",
       Perceived_neighborhood_safety = "Seguridad barrio",
       Perceived_city_safety = "Seguridad ciudad",
       Perceived_home_safety = "Seguridad hogar",
       Perceived_country_safety = "Seguridad país",
       Freq_robbery = "Fr de robos",
       Men_perceived_as_danger_to_children = "Hombres peligrosos hijos",

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Men_perceived_as_danger_to_partner = "Hombres peligrosos pareja",
Partner_physical_violence = "VP fisica",
Freq_partner_physical_violence = "Fr VP fisica",
Partner_sexual_violence = "VP sexual",
Freq_partner_sexual_violence = "Fr VP sexual",
Partner_infidelity = "Infidelidad",
Freq_partner_infidelity = "Fr infidelidad",
Victim_of_violence = "Victima de alguna violencia",
Violence_type = "Tipo violencia",
Victim_of_gender_violence = "Victima violencia género",
Victim_of_armed_conflict = "Victima conflicto armado",
Control_question_1 = "Sin leer",
Control_question_2 = "Broma") |>
mutate(Education = factor(Education, levels = c("Primaria",
                                                "Bachillerato",
                                                "Universitario",
                                                "Posgrado")),

Sexual_orientation = factor(Sexual_orientation,
                             levels = c("Exclusivamente heterosexual",
                                         "Principalmente heterosexual, con contactos homosexuales",
                                         "Predominantemente heterosexual, aunque con contactos h",
                                         "Bisexual",
                                         "Pansexual",
                                         "Demisexual")),

Relationship_status = factor(Relationship_status,
                             levels = c("Soltero sin contactos sexuales en el último año",
                                         "Soltero con contactos sexuales en el último año",
                                         "Relación exclusiva o matrimonio - viven juntos",
                                         "Relación exclusiva - no viven juntos",
                                         "Relación no exclusiva - contactos sexuales con otras p

Internet_use = factor(Internet_use,
                      levels = c("Cada día",
                                  "Cada mes",
                                  "Cada año")),

Socioeconomic_level = as.factor(Socioeconomic_level),
City = ifelse(City == "Bogotá D.C." |
              City == "Madrid, Cundinamarca" |
              City == "Zipaquirá, Cundinamarca" |
              City == "Zipaquirá" |
              City == "Mosquera, cundinamarca" |
              City == "Mosquera" |
              City == "FUNZA, CUNDINAMARCA" |
              City == "Madrid Cundinamarca" |
              City == "Une- Cundinamarca",
              "Bogota Region",
              ifelse(City == "Soledad" |
                    City == "Barranquilla" |
                    City == "BARRANQUILLA" |
                    City == "Soledad, Atlantico" |
                    City == "Costa Atlantica" |
                    City == "Corozal",
                    "Atlantico Region",
                    "Other")))) |>

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mutate(Education = recode(Education,
  "Primaria" = "Primary school",
  "Bachillerato" = "High school",
  "Universitario" = "University",
  "Posgrado" = "Postgraduate")) |>
mutate(Sexual_orientation = recode(Sexual_orientation,
  "Exclusivamente heterosexual" = "Exclusively heterosexual",
  "Principalmente heterosexual, con contactos homosexuales esporádicos" = "Primarily heterosexual, with occasional homosexual contacts",
  "Predominantemente heterosexual, aunque con contactos homosexuales" = "Predominantly heterosexual, although with homosexual contacts",
  "Bisexual" = "Bisexual",
  "Pansexual" = "Pansexual",
  "Demisexual" = "Demisexual")) |>
mutate(Relationship_status = recode(Relationship_status,
  "Soltero sin contactos sexuales en el último año" = "Single without sexual contacts in the last year",
  "Soltero con contactos sexuales en el último año" = "Single with sexual contacts in the last year",
  "Relación exclusiva o matrimonio - viven juntos" = "Exclusive relationship or marriage - live together",
  "Relación exclusiva - no viven juntos" = "Exclusive relationship - do not live together",
  "Relación no exclusiva - contactos sexuales con otras personas" = "Non-exclusive relationship - sexual contacts with other people")) |>
mutate(Internet_use = recode(Internet_use,
  "Cada día" = "Daily",
  "Cada mes" = "Monthly",
  "Cada año" = "Yearly")) |>
mutate(across(starts_with("Men_perceived_as_danger_to_"),
  ~recode(.,
    "Completamente en desacuerdo" = 1,
    "Ligeramente en desacuerdo" = 2,
    "Ni de acuerdo ni en desacuerdo" = 3,
    "Ligeramente de acuerdo" = 4,
    "Completamente de acuerdo" = 5))) |>
mutate(across(where(is.character), ~replace(., . == "Si", "Yes"))) |>
mutate(across(where(is.character), ~replace(., . == "Sí", "Yes"))) |>
mutate(across(where(is.character), ~replace(., . == "No quiero responder", "Prefer not to answer"))) |>
mutate(across(where(is.character), ~replace(., . == "Mujer", "Woman"))) |>
mutate(across(where(is.character), ~replace(., . == "Hombre", "Man"))) |>
mutate(across(where(is.character), ~replace(., . == "Femenino", "Female"))) |>
mutate(across(where(is.character), ~replace(., . == "Masculino", "Male"))) |>
mutate(across(where(is.character), ~replace(., . == "Sin pareja actual", "Single"))) |>
mutate(across(where(is.character), ~replace(., . == "Sí, una vez en la adultez", "Once as adult"))) |>
mutate(across(where(is.character), ~replace(., . == "Sí, tanto en la infancia como en la adultez", "Once as child and once as adult"))) |>
mutate(across(where(is.character), ~replace(., . == "Sí, más de una vez en mi infancia", "More than once as child"))) |>
mutate(across(where(is.character), ~replace(., . == "Sí, una vez en mi infancia", "Once as child"))) |>
mutate(across(where(is.character), ~replace(., . == "Afrocolombiano", "Afrocolombian"))) |>
mutate(across(where(is.character), ~replace(., . == "Desplazado conflicto armado", "Undetermined"))) |>
mutate(across(where(is.character), ~replace(., . == "Ninguna", "Undetermined"))) |>
mutate(across(where(is.character), ~replace(., . == "Comunidad negra", "Afrocolombian"))) |>
mutate(across(where(is.character), ~replace(., . == "Raizal del Archipiélago de San Andrés, Providencia y Santa Fe", "Raizal of the San Andrés, Providencia and Santa Fe Archipelago"))) |>
mutate(across(where(is.character), ~replace(., . == "Patos", "Indigenous"))) |>
mutate(across(where(is.character), ~replace(., . == "Indígena", "Indigenous"))) |>
mutate(across(where(is.character), ~replace(., . == "No estoy segura", "Unsure"))) |>

### Con puntajes totales de instrumentos, menos columnas
quests_clean <- quests |>
  mutate(across(starts_with("Escasez alimentaria"),

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      ~recode(.,
        "Nunca" = 0,
        "Rara vez/algunas veces" = 1,
        "Casi siempre" = 2))) |>

rowwise() |>
mutate(Self_esteem = sum(autoestima_I1, 5-autoestima_I2, autoestima_I3, autoestima_I4,
  autoestima_I5, 5-autoestima_I6, autoestima_I7, 5-autoestima_I8,
  5-autoestima_I9, autoestima_I10),
  Self_perception = sum(across(starts_with("SP_"))),
  Perceived_safety = sum(across(ends_with("_safety"))),
  Food_insecurity = sum(across(starts_with("Escasez alimentaria")))) |>
select(!starts_with("autoestima_")) |>
mutate(across(where(is.character), as.factor))

## Evaluación subjetiva de rostros----
### Formato ancho
eval <- read_excel("Datos/Evaluación subjetiva rostros (Respuestas).xlsx") |>
select(-c(123:124)) |>
rowwise() |>
mutate(Masculinity_masculinized = sum(across(ends_with("M Mas"))),
  Masculinity_feminized = sum(across(ends_with("F Mas"))),
  Attractiveness_masculinized = sum(across(ends_with("M Atr"))),
  Attractiveness_feminized = sum(across(ends_with("F Atr")))) |>
rename(Date = "Marca temporal",
  ID = "Escribe tu código de participante")

### Formato largo
eval_long <- left_join(eval |>
  select(-c(123:126)) |>
  select(!ends_with(" Mas")) |>
  pivot_longer(cols = ends_with("Atr"),
    names_to = "Stimulus",
    values_to = "Attractiveness") |>
  mutate(Stimulus = str_remove_all(Stimulus, " Atr")),
  eval |>
  select(-c(123:126)) |>
  select(!ends_with(" Atr")) |>
  pivot_longer(cols = ends_with("Mas"),
    names_to = "Stimulus",
    values_to = "Masculinity") |>
  mutate(Stimulus = str_remove_all(Stimulus, " Mas")))

## Joining with 'by = join_by(Date, ID, Stimulus)'

## Disponibilidad de recursos----
reg <- rbind(read_excel("Datos/3Registro Participantes Disponibilidad de Recursos-corregido.xlsx",
  sheet = "UB") |>
  mutate(University = "UB"),
  read_excel("Datos/3Registro Participantes Disponibilidad de Recursos-corregido.xlsx",
  sheet = "CUC") |>
  mutate(University = "CUC")) |>
select(-c(Grupo, `Entrega de kit`, `Protocolo de bioseguridad`, `Requisitos previos al registro`, Con
  `Código de evaluador`: `Código auxiliar que reclutó`)) |>
rename(Date = "Fecha de registro",
  ID = "Codigo del Participante",

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Condition = "Condicion",
Calibration = "Calibración",
Gaze_perc = "% Gaze",
Condition_happiness = "Q Feliz",
Condition_physical_safety = "Q Segura físicamente",
Condition_healthy = "Q Saludable",
Condition_economic_security = "Q Segura económicamente",
Body_temperature = "Temperatura",
Ovulating = "Test de ovulación",
Saliva_pre = "Recolección de saliva pre",
Saliva_pre_time = "Hora...18",
Eye_tracking = "Rastreo Ocular",
Subjective_evaluation = "Evaluación subjetiva",
Sociodemographic_questionnaire = "Cuestionario sociodemográfico",
Saliva_post = "Recolección de saliva post",
Saliva_post_time = "Hora...23",
Notes = "Observaciones") |>
mutate(Condition = fct_recode(Condition,
                             "Low" = "Baja",
                             "High" = "Alta"),
       Calibration = fct_recode(Calibration,
                                "<=0.5" = "<0.5 (menor a 0.5)",
                                ">0.5" = ">0.5 (mayor a 0.5)",
                                "<=0.5" = "0.5 (igual a 0.5)",
                                NULL = "Selecciona"),
       Ovulating = fct_recode(as.factor(Ovulating),
                              "No" = "0",
                              "Yes" = "1")) |>
mutate_all(~str_replace_all(., "SI", "Yes")) |>
mutate_all(~str_replace_all(., "NO", "No")) |>
mutate_all(~str_replace_all(., "INCOMPLETO", "No")) |>
mutate_all(~str_replace_all(., "Recuperado", "Data recovered")) |>
mutate_all(~str_replace_all(., "RECUPERADO", "Data recovered")) |>
mutate_all(~na_if(., "Selecciona")) |>
mutate_all(~na_if(., "N/A")) |>
mutate(across(starts_with("Condition_"), as.numeric))

## New names:
## New names:
## * 'Hora' -> 'Hora...18'
## * 'Hora' -> 'Hora...23'

# Base de datos final----
## Integrada----
dat_int <- dat_et |>
  left_join(quests_clean, by = c("ID"), multiple = "all") |>
  left_join(eval_long, by = c("ID", "Stimulus"), multiple = "all") |>
  left_join(reg, by = c("ID", "University", "Condition"), multiple = "all")

### Tamaño de muestra----
n_recolectado <- dat_int |>
  summarise(n = n_distinct(ID))

## Base de datos filtrada----

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dat <- dat_int |>
  filter(Control_question_1 == "No" & Control_question_2 == "No") |>
  filter(Sexual_orientation %in%
    c("Exclusively heterosexual",
      "Predominantly heterosexual"))

### Tamaño de muestra----
n_filtrado <- dat |>
  summarise(n = n_distinct(ID))

## Bases filtradas individuales----
### Disponibilidad de recursos----
reg_fin <- reg |>
  left_join(quests_clean, by = c("ID")) |>
  filter(ID %in% unique(dat$ID))

## Cuestionarios---
quests_fin <- quests_clean |>
  filter(ID %in% unique(dat$ID))

# Descriptivos----
## Sociodemographic----
desc_quest <- quests_fin |>
  left_join(reg, by = c("ID")) |>
  select(ID, Condition, Age, City, Education, Ethnicity, Sexual_orientation, Relationship_current,
    Relationship_status:Hormonal_contraception, Sexual_abuse,
    SP_happiness:Socioeconomic_level,
    Perceived_country_safety:Freq_robbery,
    Men_perceived_as_danger_to_children:Victim_of_violence,
    Victim_of_gender_violence:Victim_of_armed_conflict,
    Self_esteem:Food_insecurity) |>
  mutate(across(where(is.character), as.factor))

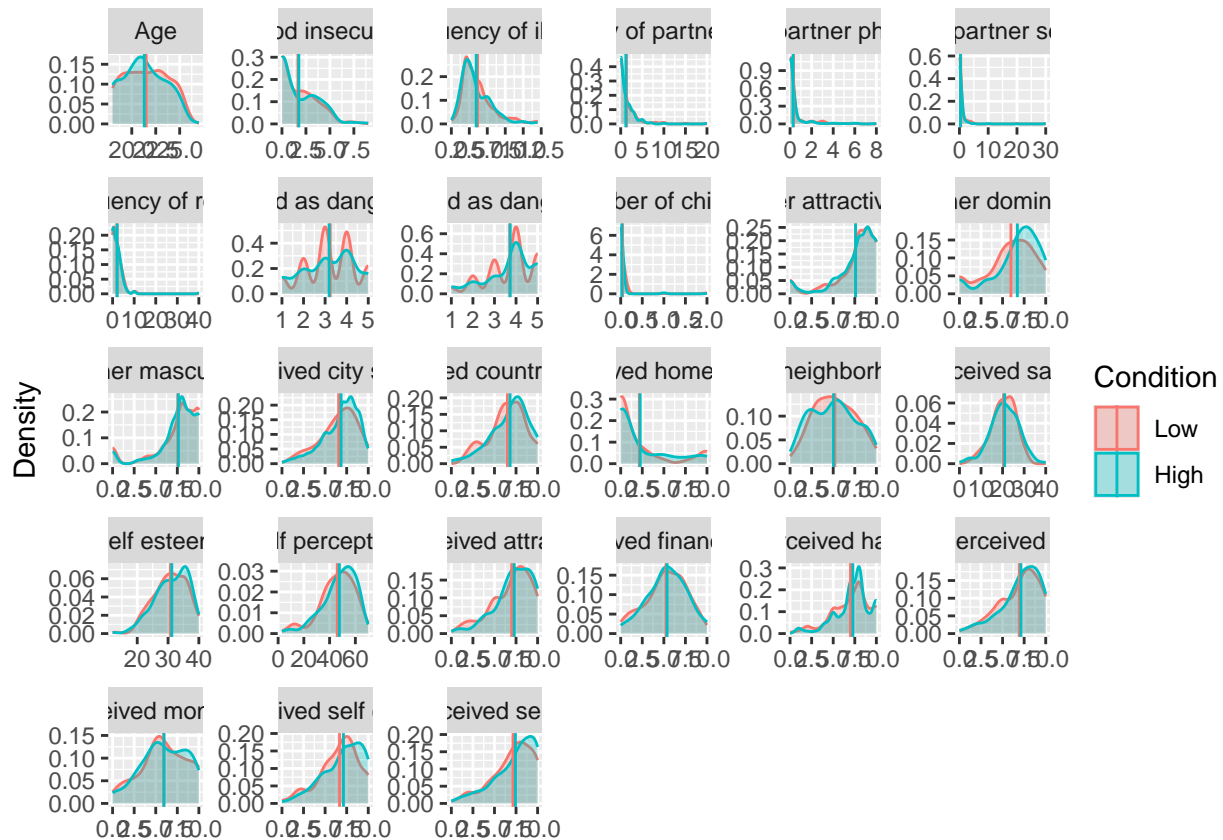
### Sociodemographic numeric----
desc_quest |>
  select(ID, Condition, where(is.numeric)) |>
  pivot_longer(where(is.numeric),
    names_to = "Variable",
    values_to = "Value") |>
  mutate(Variable = str_replace_all(Variable, "_", " ")) |>
  mutate(Variable = str_replace_all(Variable, "Freq", "Frequency of")) |>
  mutate(Variable = str_replace_all(Variable, "SP", "Self-perceived")) |>
  #mutate(Variable = case_when(str_detect(Variable, "_safety") ~ str_replace_all(Variable, "Self-percei
  ggplot(aes(x = Value, fill = Condition, color = Condition)) +
  geom_density(alpha = 0.3) +
  facet_wrap(~Variable, scales = "free") +
  stat_summary(aes(xintercept = after_stat(x), y = 0),
    fun = mean, geom = "vline", orientation = "y") +
  labs(x = NULL, y = "Density")

## Warning: Removed 1 row containing non-finite outside the scale range
## ('stat_density()').

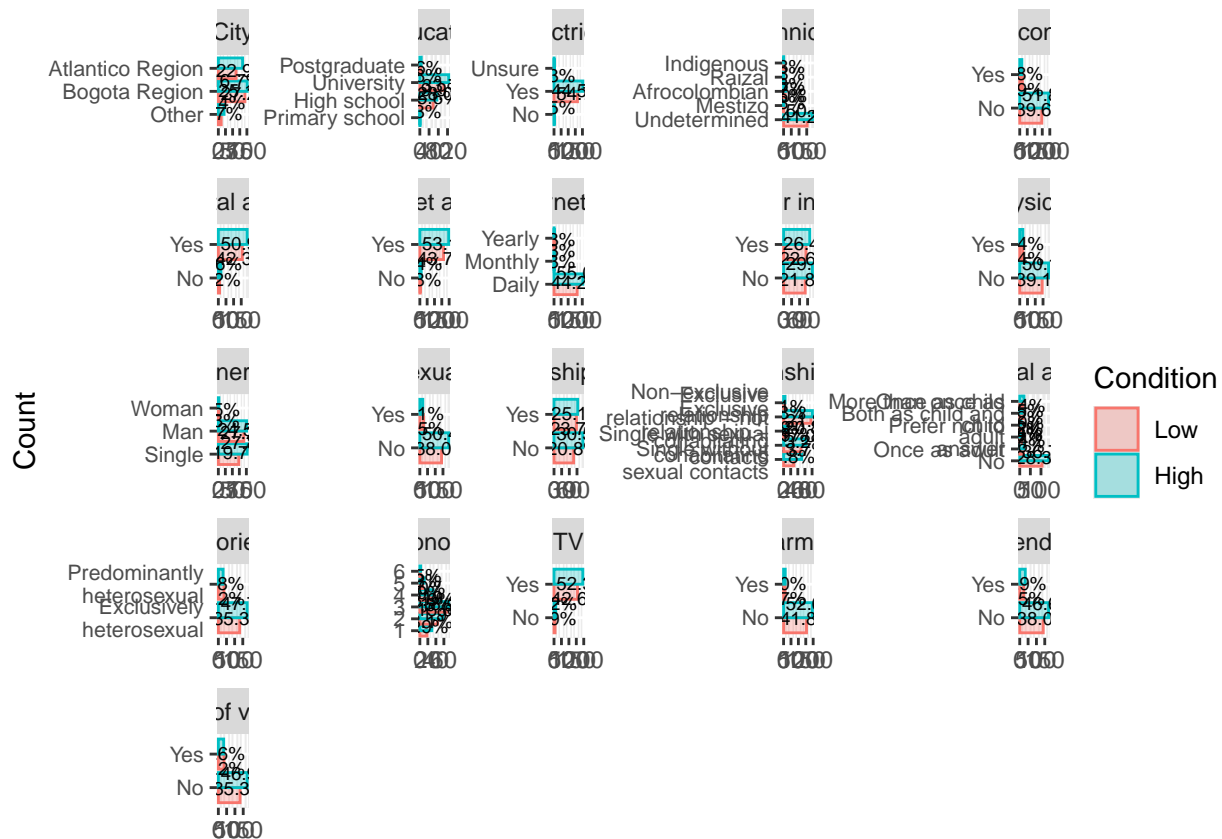
## Warning: Removed 1 row containing non-finite outside the scale range

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## ('stat_summary()').
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```
### Sociodemographic categorical----
desc_quest |>
  select(ID, Condition, where(is.factor), City) |>
  pivot_longer(City:Victim_of_armed_conflict,
    names_to = "Variable",
    values_to = "Value") |>
  mutate(Variable = str_replace_all(Variable, "_", " ")) |>
  ggplot(aes(y = Value, fill = Condition, color = Condition)) +
  geom_bar(alpha = 0.3, position = position_dodge()) +
  geom_text(aes(label = scales::percent(after_stat(prop), accuracy = 0.1)),
    vjust = "inward",
    position = position_dodge(.9),
    stat = "prop",
    color = "black",
    size = 2.5) +
  facet_wrap(~Variable, scales = "free") +
  scale_y_discrete(labels = label_wrap(20)) +
  theme(axis.text.y = element_text(size = 8)) +
  labs(x = NULL, y = "Count")
```



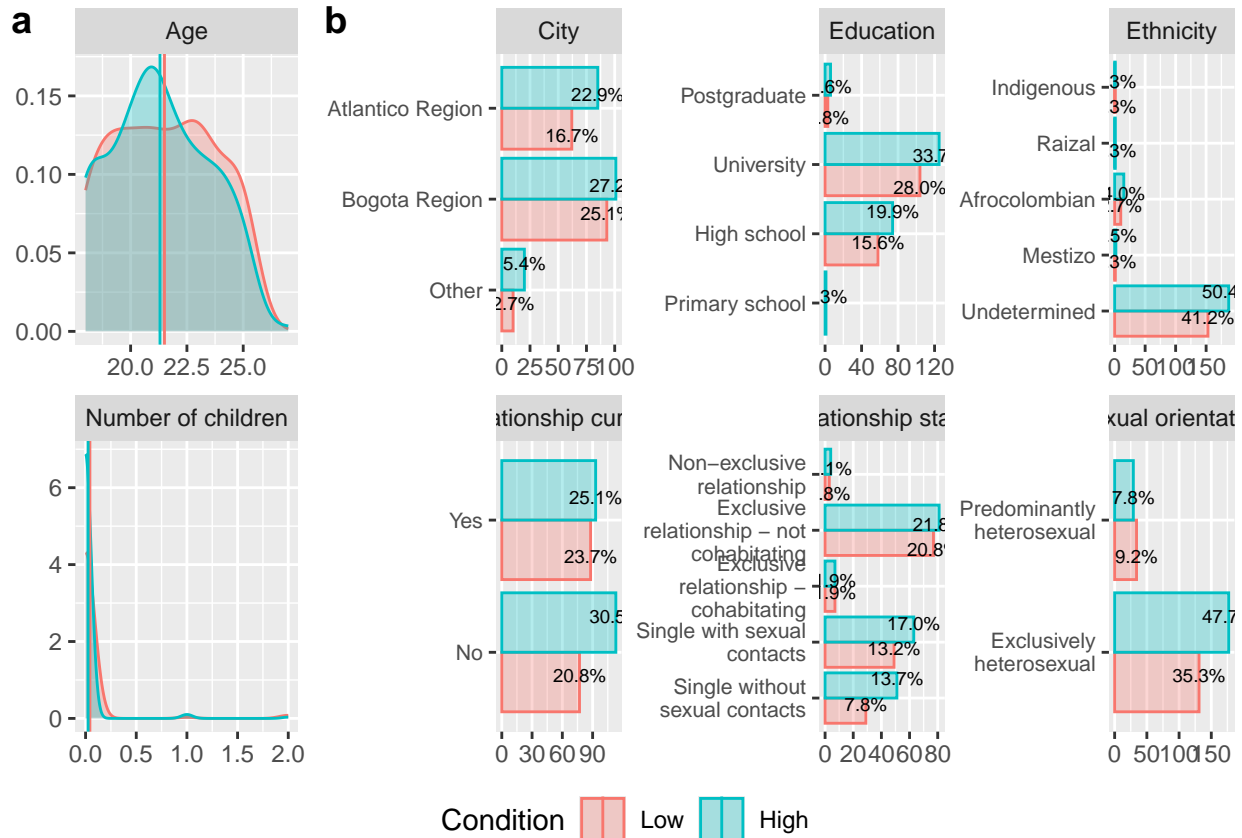
Sociodemographic factors----

```
ggarrange(desc_quest |>
  select(ID, Condition, Age, Number_of_children) |>
  pivot_longer(where(is.numeric),
    names_to = "Variable",
    values_to = "Value") |>
  mutate(Variable = str_replace_all(Variable, "_", " ")) |>
  ggplot(aes(x = Value, fill = Condition, color = Condition)) +
  geom_density(alpha = 0.3) +
  facet_wrap(~Variable, scales = "free", ncol = 1) +
  stat_summary(aes(xintercept = after_stat(x), y = 0),
    fun = mean, geom = "vline", orientation = "y") +
  labs(x = NULL, y = NULL),
  desc_quest |>
  select(ID, Condition, Sexual_orientation, City, Ethnicity,
    Education, Relationship_current, Relationship_status) |>
  pivot_longer(Sexual_orientation:Relationship_status,
    names_to = "Variable",
    values_to = "Value") |>
  mutate(Variable = str_replace_all(Variable, "_", " ")) |>
  ggplot(aes(y = Value, fill = Condition, color = Condition)) +
  geom_bar(alpha = 0.3, position = position_dodge()) +
  geom_text(aes(label = scales::percent(after_stat(prop), accuracy = 0.1)),
    vjust = "inward",
    position = position_dodge(.9),
    stat = "prop",
```

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    color = "black",
    size = 2.5) +
  facet_wrap(~Variable, scales = "free") +
  scale_y_discrete(labels = label_wrap(20)) +
  theme(axis.text.y = element_text(size = 8)) +
  labs(x = NULL, y = NULL),
  widths = c(1, 3),
  common.legend = TRUE,
  legend = "bottom",
  labels = "auto")

```



```

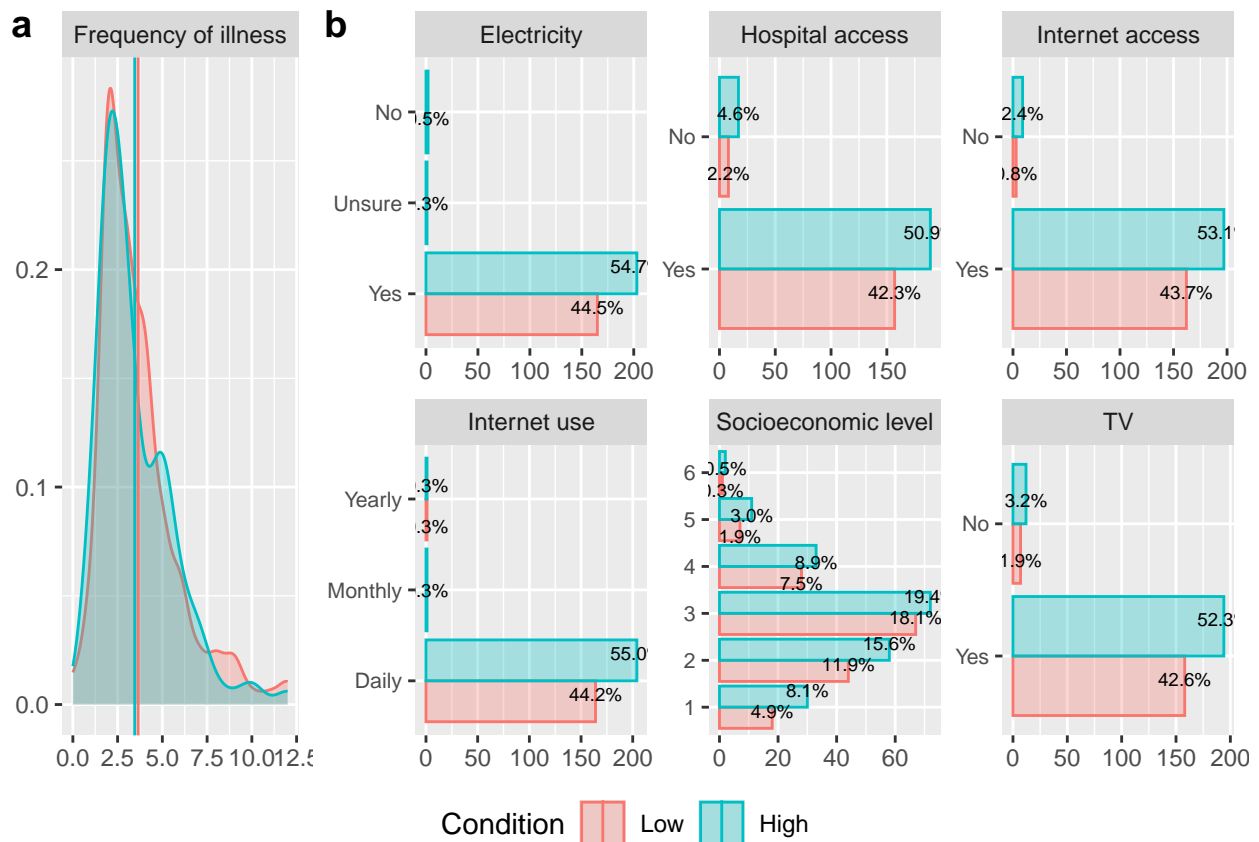
## Access to resources factors----
ggarrange(desc_quest |>
  select(ID, Condition, Freq_illness) |>
  pivot_longer(Freq_illness,
    names_to = "Variable",
    values_to = "Value") |>
  mutate(Variable = str_replace_all(Variable, "_", " ")) |>
  mutate(Variable = str_replace_all(Variable, "Freq", "Frequency of")) |>
  ggplot(aes(x = Value, fill = Condition, color = Condition)) +
  geom_density(alpha = 0.3) +
  facet_wrap(~Variable,
    labeller = labeller(c("Frequency of illness")))) +
  stat_summary(aes(xintercept = after_stat(x), y = 0),
    fun = mean, geom = "vline", orientation = "y") +
  labs(x = NULL, y = NULL),

```

```

desc_quest |>
  select(ID, Condition, Socioeconomic_level, Electricity, Internet_access, Internet_use,
         TV, Hospital_access) |>
  pivot_longer(Socioeconomic_level:Hospital_access,
               names_to = "Variable",
               values_to = "Value") |>
  mutate(Variable = str_replace_all(Variable, "_", " ")) |>
  ggplot(aes(y = Value, fill = Condition, color = Condition)) +
  geom_bar(alpha = 0.3, position = position_dodge()) +
  geom_text(aes(label = scales::percent(after_stat(prop), accuracy = 0.1)),
            vjust = "inward",
            position = position_dodge(.9),
            stat = "prop",
            color = "black",
            size = 2.5) +
  facet_wrap(~Variable, scales = "free") +
  scale_y_discrete(labels = label_wrap(20)) +
  theme(axis.text.y = element_text(size = 8)) +
  labs(x = NULL, y = NULL),
  widths = c(1, 3),
  common.legend = TRUE,
  legend = "bottom",
  labels = "auto")

```



```

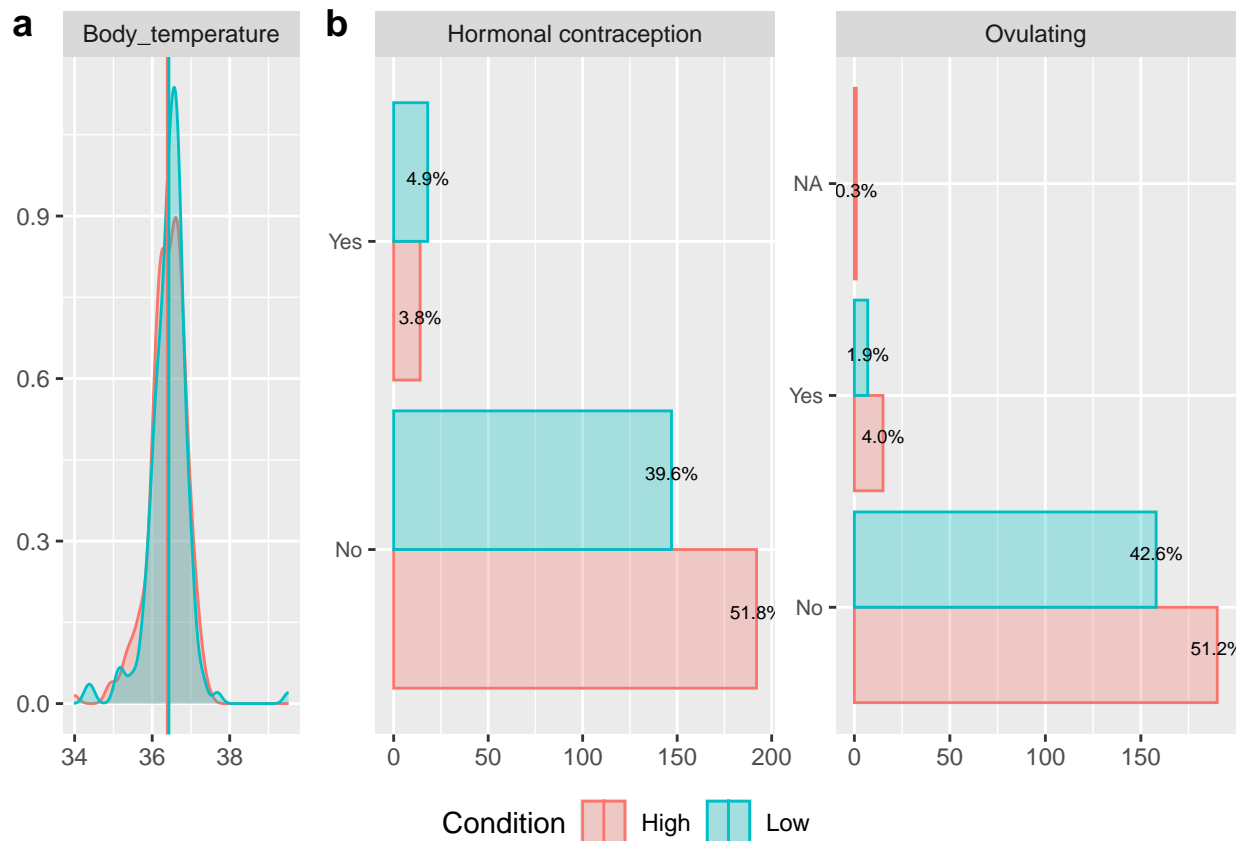
## Hormonal factors-----
ggarrange(reg_fin |>

```

```

select(ID, Condition, Body_temperature) |>
pivot_longer(Body_temperature,
              names_to = "Variable",
              values_to = "Value") |>
mutate(Value = as.numeric(Value)) |>
ggplot(aes(x = Value, fill = Condition, color = Condition)) +
geom_density(alpha = 0.3) +
facet_wrap(~Variable) +
stat_summary(aes(xintercept = after_stat(x), y = 0),
              fun = mean, geom = "vline", orientation = "y") +
labs(x = NULL, y = NULL),
reg_fin |>
left_join(desc_quest, by = c("ID", "Condition", "Hormonal_contraception")) |>
select(ID, Condition, Ovulating, Hormonal_contraception) |>
pivot_longer(Ovulating:Hormonal_contraception,
              names_to = "Variable",
              values_to = "Value") |>
mutate(Variable = str_replace_all(Variable, "_", " ")) |>
ggplot(aes(y = Value, fill = Condition, color = Condition)) +
geom_bar(alpha = 0.3, position = position_dodge()) +
geom_text(aes(label = scales::percent(after_stat(prop), accuracy = 0.1)),
          vjust = "inward",
          position = position_dodge(.9),
          stat = "prop",
          color = "black",
          size = 2.5) +
facet_wrap(~Variable, scales = "free") +
scale_y_discrete(labels = label_wrap(20)) +
theme(axis.text.y = element_text(size = 8)) +
labs(x = NULL, y = NULL),
widths = c(1, 3),
common.legend = TRUE,
legend = "bottom",
labels = "auto")

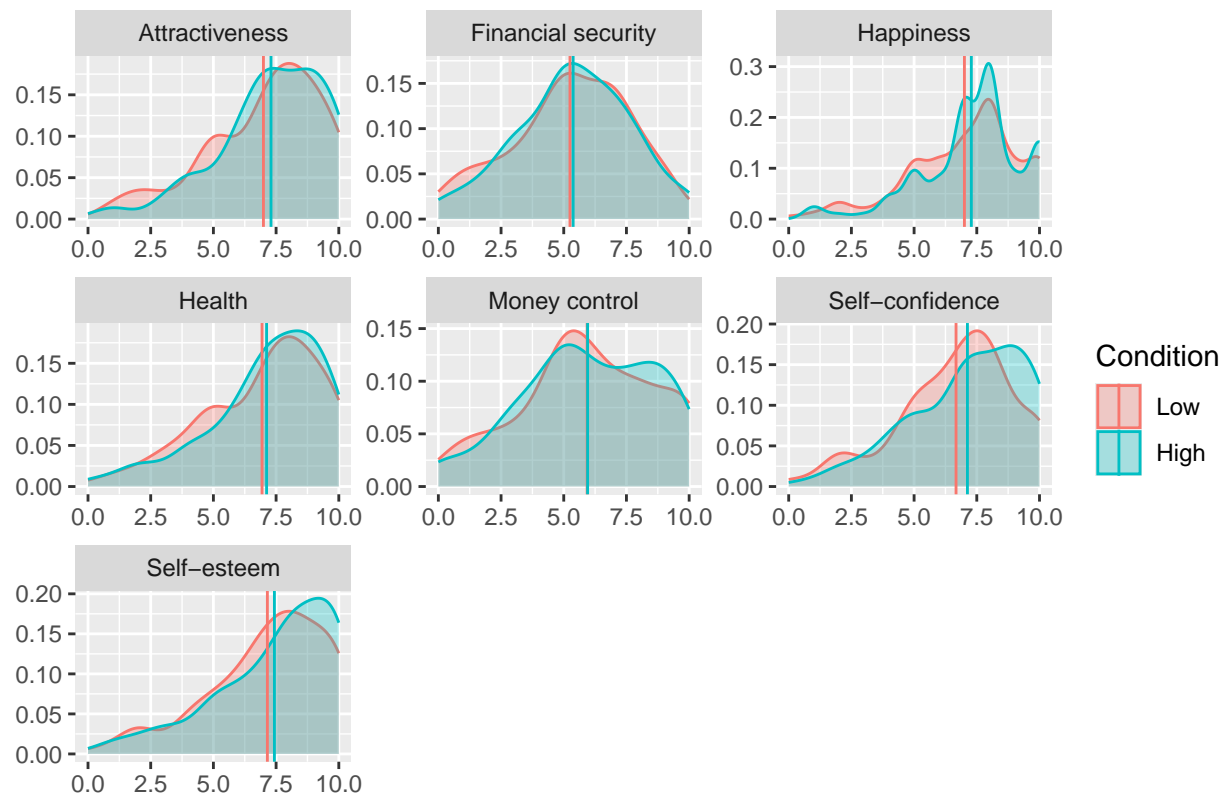
```



Psychological factors----

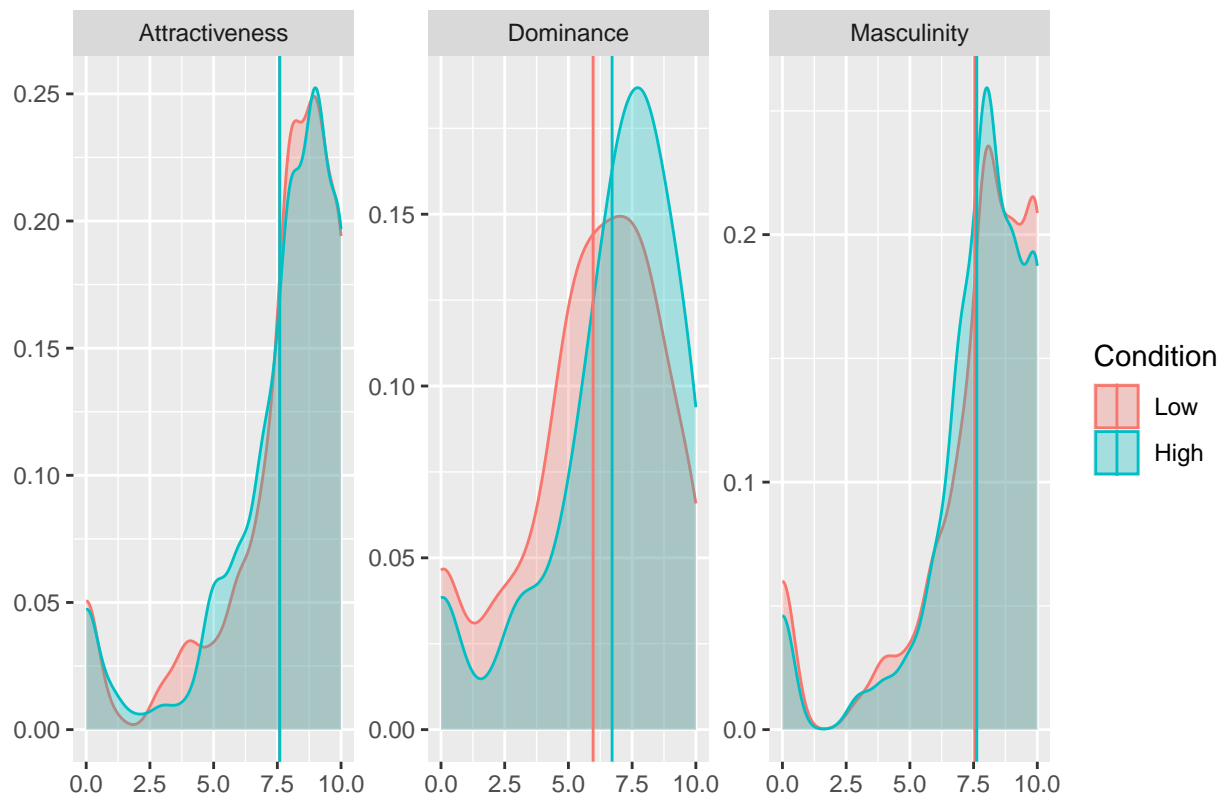
```
desc_quest |>
  select(ID, Condition, starts_with("SP_")) |>
  pivot_longer(where(is.numeric),
    names_to = "Variable",
    values_to = "Value") |>
  mutate(Variable = str_replace_all(Variable, "SP_", "")) |>
  mutate(Variable = str_replace_all(Variable, "self_", "self-")) |>
  mutate(Variable = str_replace_all(Variable, "_", " ")) |>
  mutate(Variable = str_to_sentence(Variable)) |>
  ggplot(aes(x = Value, fill = Condition, color = Condition)) +
  geom_density(alpha = 0.3) +
  labs(title = "Self-perceived conditions") +
  facet_wrap(~Variable, scales = "free") +
  stat_summary(aes(xintercept = after_stat(x), y = 0),
    fun = mean, geom = "vline", orientation = "y") +
  labs(x = NULL, y = NULL)
```

Self-perceived conditions



```
## Last partner perception----
desc_quest |>
  select(ID, Condition, Partner_masculinity, Partner_dominance,
         Partner_attractiveness) |>
  pivot_longer(where(is.numeric),
               names_to = "Variable",
               values_to = "Value") |>
  mutate(Variable = str_replace_all(Variable, "Partner_", "")) |>
  mutate(Variable = str_to_sentence(Variable)) |>
  ggplot(aes(x = Value, fill = Condition, color = Condition)) +
  geom_density(alpha = 0.3) +
  labs(title = "Current/last partner perception") +
  facet_wrap(~Variable, scales = "free") +
  stat_summary(aes(xintercept = after_stat(x), y = 0),
               fun = mean, geom = "vline", orientation = "y") +
  labs(x = NULL, y = NULL)
```


Current/last partner perception



Factors related con context violence----

```
ggarrange(desc_quest |>
  select(ID, Condition, ends_with("_safety"), Freq_robbery) |>
  pivot_longer(where(is.numeric),
    names_to = "Variable",
    values_to = "Value") |>
  mutate(Value = as.numeric(Value)) |>
  mutate(Variable = str_replace_all(Variable, "_safety", "")) |>
  mutate(Variable = str_replace_all(Variable, "Perceived_", "")) |>
  mutate(Variable = str_replace_all(Variable, "Freq_", "Frequency of ")) |>
  mutate(Variable = str_replace_all(Variable, "Perceived", "General perception")) |>
  mutate(Variable = str_to_sentence(Variable)) |>
  ggplot(aes(x = Value, fill = Condition, color = Condition)) +
  geom_density(alpha = 0.3) +
  labs(title = "Safety perception") +
  facet_wrap(~factor(Variable, c("Country", "City", "Neighborhood", "Home",
    "Frequency of robbery", "General perception")),
    scales = "free") +
  stat_summary(aes(xintercept = after_stat(x), y = 0),
    fun = mean, geom = "vline", orientation = "y") +
  labs(x = NULL, y = NULL),
  ggarrange(desc_quest |>
    select(ID, Condition,
      Men_perceived_as_danger_to_children,
      Men_perceived_as_danger_to_partner) |>
    pivot_longer(Men_perceived_as_danger_to_children:Men_perceived_as_danger_to_partner
```

```

      names_to = "Variable",
      values_to = "Value") |>
mutate(Value = as.factor(Value)) |>
mutate(Variable = str_replace_all(Variable,
                                "Men_perceived_as_danger_to_", "")) |>
mutate(Variable = str_to_sentence(Variable)) |>
ggplot(aes(y = Value, fill = Condition, color = Condition)) +
geom_bar(alpha = 0.3, position = position_dodge()) +
geom_text(aes(label = scales::percent(after_stat(prop), accuracy = 0.1)),
          vjust = "inward",
          position = position_dodge(.9),
          stat = "prop",
          color = "black",
          size = 2.5) +
labs(title = "Men perceived as danger to...") +
facet_wrap(~Variable, scales = "free") +
scale_y_discrete(labels = label_wrap(20)) +
theme(axis.text.y = element_text(size = 8)) +
labs(x = NULL, y = NULL),
desc_quest |>
select(ID, Condition, Victim_of_armed_conflict) |>
pivot_longer(Victim_of_armed_conflict,
              names_to = "Variable",
              values_to = "Value") |>
mutate(Variable = str_replace_all(Variable,
                                "_", " ")) |>
ggplot(aes(y = Value, fill = Condition, color = Condition)) +
geom_bar(alpha = 0.3, position = position_dodge()) +
geom_text(aes(label = scales::percent(after_stat(prop), accuracy = 0.1)),
          vjust = "inward",
          position = position_dodge(.9),
          stat = "prop",
          color = "black",
          size = 2.5) +
labs(title = "Victim of armed conflict") +
facet_wrap(~Variable, scales = "free") +
scale_y_discrete(labels = label_wrap(20)) +
theme(axis.text.y = element_text(size = 8)) +
labs(x = NULL, y = NULL),
ncol = 1,
labels = c("", "c")),
#widths = c(2, 1),
common.legend = TRUE,
legend = "bottom",
labels = "auto")

```

```

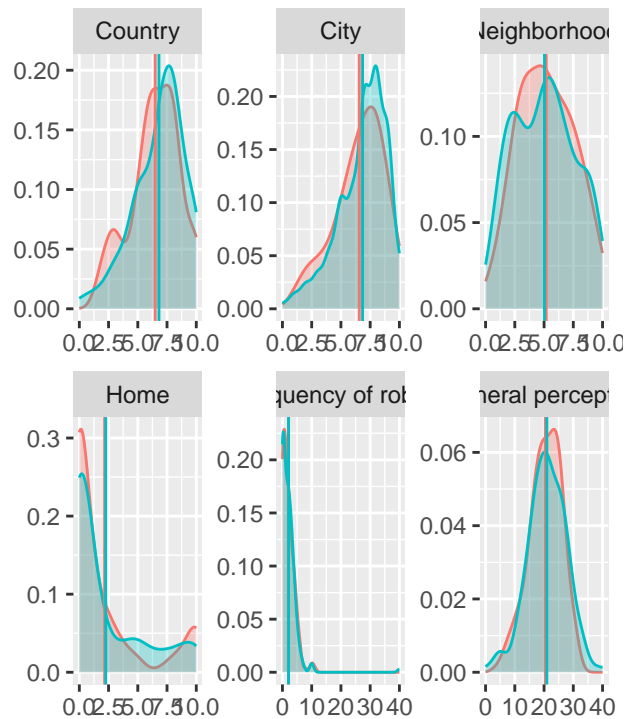
## Warning: Removed 1 row containing non-finite outside the scale range ('stat_density()').
## Removed 1 row containing non-finite outside the scale range ('stat_summary()').

## Warning: Removed 1 row containing non-finite outside the scale range
## ('stat_density()').

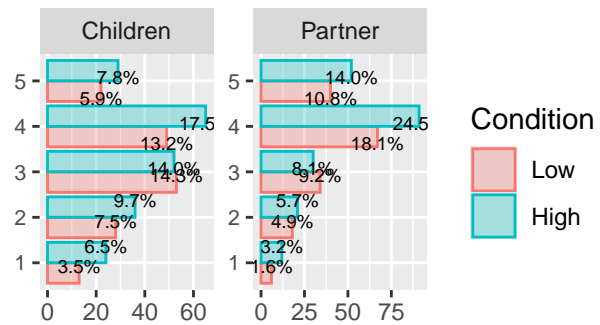
## Warning: Removed 1 row containing non-finite outside the scale range
## ('stat_summary()').

```

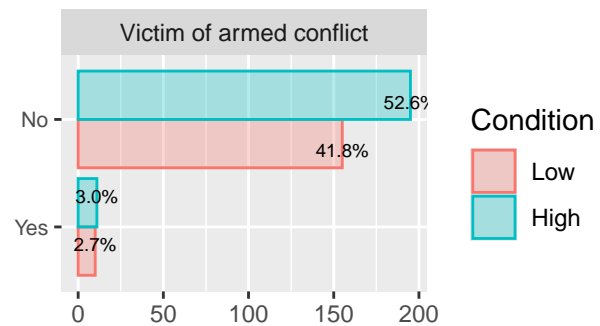
a Safety perception



b Men perceived as danger to...



c Victim of armed conflict



Condition Low High

Factors related con gender and partner violence----

```
ggarrange(desc_quest |>
  select(ID, Condition, Freq_partner_physical_violence:Freq_partner_infidelity) |>
  pivot_longer(where(is.numeric),
    names_to = "Variable",
    values_to = "Value") |>
  mutate(Value = as.numeric(Value)) |>
  mutate(Variable = str_replace_all(Variable, "Freq_partner_", "")) |>
  mutate(Variable = str_replace_all(Variable, "_", " ")) |>
  mutate(Variable = str_to_sentence(Variable)) |>
  ggplot(aes(x = Value, fill = Condition, color = Condition)) +
  geom_density(alpha = 0.3) +
  facet_wrap(~factor(Variable, c("Physical violence",
    "Sexual violence",
    "Infidelity")),
    scales = "free", ncol = 1) +
  stat_summary(aes(xintercept = after_stat(x), y = 0),
    fun = mean, geom = "vline", orientation = "y") +
  labs(x = NULL, y = NULL),
  desc_quest |>
  select(ID, Condition,
    Victim_of_gender_violence,
    Partner_physical_violence,
    Partner_sexual_violence,
    Sexual_abuse) |>
  pivot_longer(Victim_of_gender_violence:Sexual_abuse,
```

```

names_to = "Variable",
values_to = "Value") |>
mutate(Value = as.factor(Value)) |>
mutate(Variable = str_replace_all(Variable,
                                "_", " ")) |>
mutate(Variable = str_to_sentence(Variable)) |>
ggplot(aes(y = Value, fill = Condition, color = Condition)) +
geom_bar(alpha = 0.3, position = position_dodge()) +
geom_text(aes(label = scales::percent(after_stat(prop), accuracy = 0.1)),
          vjust = "inward",
          position = position_dodge(.9),
          stat = "prop",
          color = "black",
          size = 2.5) +
facet_wrap(~Variable,
           scales = "free") +
scale_y_discrete(labels = label_wrap(20)) +
theme(axis.text.y = element_text(size = 8)) +
labs(x = NULL, y = NULL),
widths = c(1, 2),
common.legend = TRUE,
legend = "bottom",
labels = "auto")

```



```

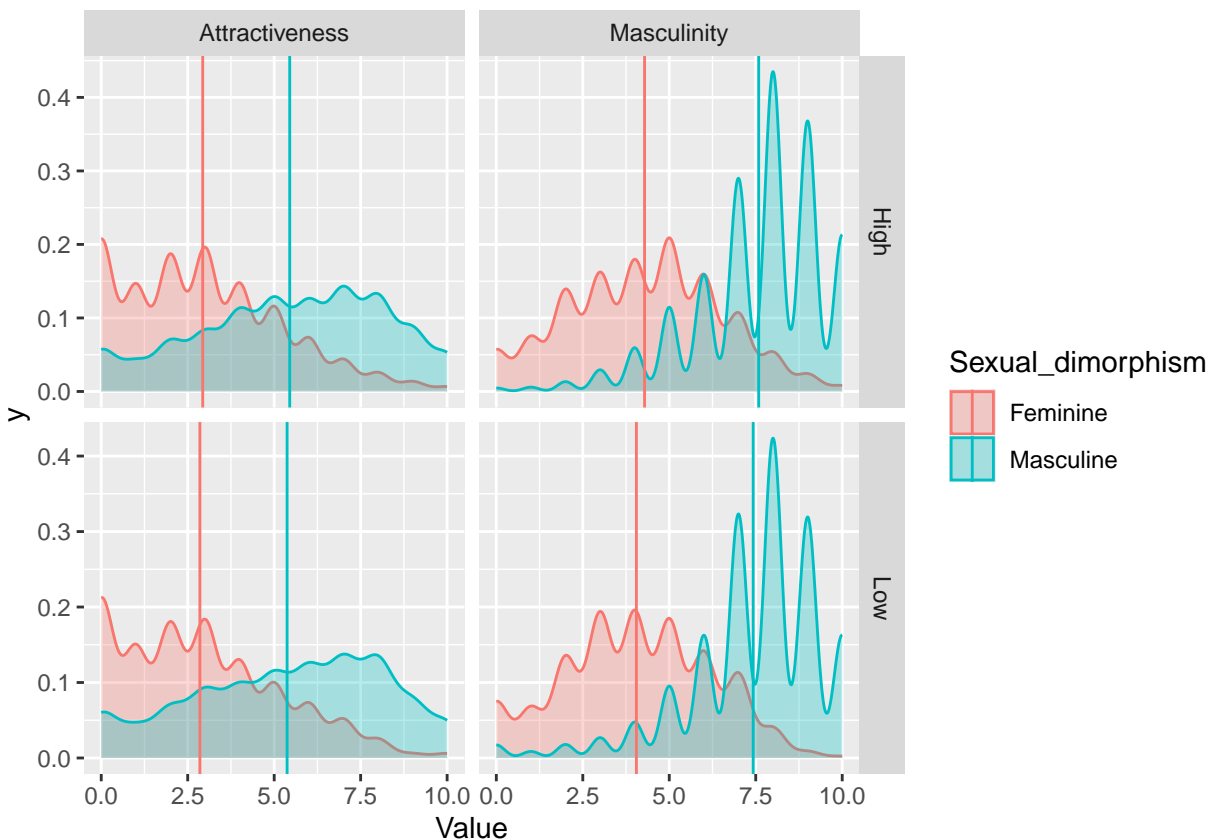
## Subjective evaluation----
eval_long |>

```

```

left_join(reg, by = c("ID")) |>
filter(ID %in% unique(dat$ID)) |>
rowwise() |>
mutate(Sexual_dimorphism = ifelse(grepl("F", Stimulus), "Feminine", "Masculine")) |>
select(Condition, Sexual_dimorphism, Attractiveness, Masculinity) |>
pivot_longer(Attractiveness:Masculinity,
             names_to = "Variable",
             values_to = "Value") |>
ggplot(aes(x = Value, fill = Sexual_dimorphism, color = Sexual_dimorphism)) +
geom_density(alpha = 0.3) +
facet_grid(Condition~Variable, scales = "free") +
stat_summary(aes(xintercept = after_stat(x), y = 0),
             fun = mean, geom = "vline", orientation = "y")

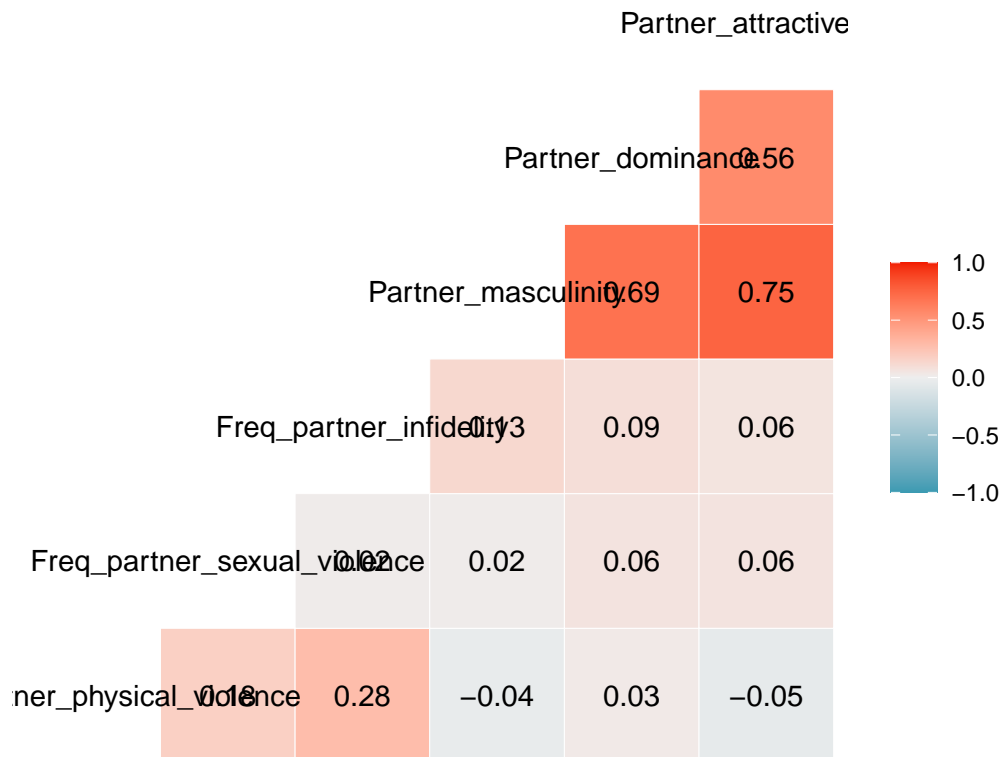
```



```

## Correlations----
### Correlations in partner perceptions----
quests_fin |>
select(Freq_partner_physical_violence,
       Freq_partner_sexual_violence,
       Freq_partner_infidelity,
       Partner_masculinity,
       Partner_dominance,
       Partner_attractiveness) |>
ggcorr(label = TRUE,
       label_round = 2)

```



Correlations table----

```
desc_quest |>
  left_join(reg_fin |>
    select(ID, Body_temperature),
    by = c("ID")) |>
  select(Age,
    Freq_illness,
    starts_with("SP_"),
    Partner_masculinity, Partner_dominance, Partner_attractiveness,
    ends_with("_safety"), Freq_robbery,
    Freq_partner_physical_violence,
    Freq_partner_sexual_violence,
    Freq_partner_infidelity) |>
  rename_with(~str_replace_all(., "_", " ")) |>
  rename_with(~str_replace_all(., "Freq", "Frequency of")) |>
  rename_with(~str_replace_all(., "Frequency of partner", "Partner")) |>
  rename_with(~str_replace_all(., "SP ", "")) |>
  rename_with(~str_replace_all(., "Perceived ", "")) |>
  rename_with(~str_to_sentence(.)) |>
  corr.stars() |>
  rownames_to_column(var = " ") |>
  slice(-1) |>
  kable(digits = 2,
    booktabs = TRUE,
    align = c("l", rep("c", 22)),
    linesep = "",
```

```

caption = "Correlations between XXXXXX",
escape = FALSE) |>
kable_styling(latex_options = c("HOLD_position"),
font_size = 5) |>
column_spec(1, width = "1.2cm") |>
column_spec(2:23, width = "0.7cm") |>
add_header_above(c(" ",
                    "Age" = 1,
                    "Health" = 1,
                    "Self-perceived conditions" = 7,
                    "Current/last partner\nperception" = 3,
                    "Perceived context\nviolence" = 6,
                    "Frequency of partner\nviolence" = 2),
bold = TRUE) |>
footnote(general = paste0("Values represent Pearson correlation coefficients ($r$). ",
                          "For significance, $^{\diagup}p$ < 0.1, *$p$ < 0.05, ",
                          "**$p$ < 0.01, ***$p$ < 0.001. ",
                          "Significant correlations are in bold."),
threeparttable = TRUE,
footnote_as_chunk = TRUE,
escape = FALSE) |>
landscape()

```

```

## Loading required package: Hmisc
##
## Attaching package: 'Hmisc'
##
## The following objects are masked from 'package:dplyr':
##
##   src, summarize
##
## The following objects are masked from 'package:base':
##
##   format.pval, units

```

Table 1: Correlations between XXXXXX

	Age	Health	Self-perceived conditions							Current/last partner perception			Perceived context violence						Frequency of partner violence	
	Age	Frequency of illness	Happiness	Financial security	Money control	Attractiveness	Self confidence	Self esteem	Health	Partner masculinity	Partner dominance	Partner attractiveness	Country safety	City safety	Neighborhood safety	Home safety	Safety	Frequency of robbery	Partner physical violence	Partner sexual violence
Frequency of illness	-0.05																			
Happiness	-0.06	-																		
Financial security	-0.11*	0.18*** -0.03	0.55***																	
Money control	0.03	-	0.46***	0.59***																
Attractiveness	-0.03	0.17** -	0.65***	0.44***	0.48***															
		0.18***																		
Self confidence	-0.05	-	0.7***	0.46***	0.48***	0.86***														
Self esteem	-0.04	0.24*** -	0.72***	0.46***	0.5***	0.83***	0.92***													
		0.25***																		
Health	-0.02	-	0.68***	0.44***	0.44***	0.66***	0.7***	0.72***												
		0.26***																		
Partner masculinity	0.15**	-0.09†	0.15**	0.17***	0.16**	0.21***	0.21***	0.23***	0.17***											
Partner dominance	0.06	-0.06	0.12*	0.18***	0.12*	0.17***	0.14**	0.16**	0.1*	0.69***										
Partner attractiveness	0.14**	-0.05	0.16**	0.16**	0.18***	0.18***	0.18***	0.21***	0.16**	0.75***	0.56***									
Country safety	0.00	-0.02	0.13*	-0.02	0.03	0.18***	0.17**	0.17**	0.12*	-0.04	0.02	-0.09								
City safety	0.01	-0.02	0.13*	0.01	0.03	0.18***	0.17**	0.17**	0.13*	-0.06	0.00	-0.08	0.8***							
Neighborhood safety	0.08	-0.04	0.06	-0.12*	-0.04	0.09†	0.07	0.06	0.01	0.03	-0.02	-0.03	0.27***	0.33***						
Home safety	-0.02	-0.05	-0.01	0.01	-0.06	-0.01	-0.01	-0.02	-0.04	0.06	0.02	0.02	-	-	0.32***					
													0.24***	0.27***						
Safety	0.02	-0.06	0.11*	-0.05	-0.03	0.15**	0.14**	0.13*	0.07	0.01	0.01	-0.06	0.61***	0.61***	0.79***	0.48***				
Frequency of robbery	-0.07	0.09†	-0.06	-0.03	-0.06	-0.1*	-0.1†	-0.13*	-0.13*	0.00	-0.03	0.02	0.03	0.03	0.1*	0.08	0.1*			
Partner physical violence	0.19***	0.05	-0.07	-0.04	-0.07	-0.03	-0.09†	-0.1†	-0.12*	-0.04	0.03	-0.05	0.07	0.05	0.06	0.01	0.07	0.02		
Partner sexual violence		0.06	-0.06	0.06	0.04	0.00	0.07	0.03	0.03	0.02	0.06	0.06	0.04	0.09†	-0.02	-0.08	0.00	0.07	0.18***	
Partner infidelity	0.23***	0.00	-0.04	-0.07	-0.03	0.07	0.02	-0.03	-0.08	0.13*	0.09†	0.06	0.07	0.06	0.09	0.01	0.09	0.00	0.28***	0.02

Note: Values represent Pearson correlation coefficients (r). For significance, † $p < 0.1$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$. Significant correlations are in bold.