Haiti Earthquake data analysis

```
melt_data_suffix <- function(var_name) {
  new_var <- vector(mode = "numeric", length = nrow(data))
  new_var[data$timePoint == 1] <- as.numeric(data[[paste0(var_name, '1')]][data$timePoint == 1])
  new_var[data$timePoint == 2] <- as.numeric(data[[paste0(var_name, '2')]][data$timePoint == 2])
  new_var[data$timePoint == 3] <- as.numeric(data[[paste0(var_name, '3')]][data$timePoint == 3])
  return(new_var)
}

melt_data_prefix <- function(var_name) {
  var_name <- substr(var_name, 3, nchar(var_name))
  new_var <- vector(mode = "numeric", length = nrow(data))
  new_var <- as.numeric(data[[paste0('T1', var_name)]])
  new_var[data$timePoint == 1] <- as.numeric(data[[paste0('T1',var_name)]][data$timePoint == 1])
  new_var[data$timePoint == 2] <- as.numeric(data[[paste0('T2',var_name)]][data$timePoint == 2])
  new_var[data$timePoint == 3] <- as.numeric(data[[paste0('T3',var_name)]][data$timePoint == 3])
  return(new_var)
}

reverse_melt <- function(data, var_name) {
  data[[paste0(var_name,'1')]][data$timePoint_factor == "1"] <- as.numeric(data[[var_name]][data$timePoint_fac
  data[[paste0(var_name,'1')]][data$timePoint_factor == "2"] <- as.numeric(data[[var_name]][data$timePoint_fac
  data[[paste0(var_name,'1')]][data$timePoint_factor == "3"] <- as.numeric(data[[var_name]][data$timePoint_fac
  data[[paste0(var_name,'2')]][data$timePoint_factor == "1"] <- as.numeric(data[[var_name]][data$timePoint_fac
  data[[paste0(var_name,'2')]][data$timePoint_factor == "2"] <- as.numeric(data[[var_name]][data$timePoint_fac
  data[[paste0(var_name,'2')]][data$timePoint_factor == "3"] <- as.numeric(data[[var_name]][data$timePoint_fac
  data[[paste0(var_name,'3')]][data$timePoint_factor == "1"] <- as.numeric(data[[var_name]][data$timePoint_fac
  data[[paste0(var_name,'3')]][data$timePoint_factor == "2"] <- as.numeric(data[[var_name]][data$timePoint_fac
  data[[paste0(var_name,'3')]][data$timePoint_factor == "3"] <- as.numeric(data[[var_name]][data$timePoint_fac
  return(data)
}

count_nas <- function(df, time) {
  result <- sapply(df[data$timePoint == time,], function(x) sum(is.na(x)))
  return(result)
}
```

```
library(haven)
library(ggplot2)
library(dplyr)
library(scales)
library(lme4)
library(lsmeans)
library(car)
library(stringr)
library(lmerTest)
library(ordinal)
library(RVAideMemoire)
library(magrittr)
library(xtable)
library(texreg)
library(reporttools)
library(tidyr)
library(Hmisc)
library(PerformanceAnalytics)
setwd("C:/Users/ajame/Dropbox/Haiti data")
data <- read_dta("reshaped.dta")
```

```
data$interventiongroup <- factor(data$intvscontrol, labels = c('Control', 'Intervention'))
data$randomization <- factor(data$randomization, labels = c('Control', 'Intervention'))
data$timePoint_factor <- factor(data$timePoint, labels = c('1','2','3'))
data$T1ParticipantID <- factor(data$T1ParticipantID)
data$Locationcode <- factor(data$Locationcode)
data$gender <- factor(data$Finalgender, labels = c('Female', 'Male'))
data$trainingparticipant[data$T1ParticipantID %in% c(9,17,62,70,74,125,126,186,193,198,253,98,149,153,262,332,
data$trainingparticipant[data$T1ParticipantID %in% c(14,16,21,25,121,166,246,321,322,446)] <- 0
data$interventiongroup[data$T1ParticipantID %in% c(14,16,21,25,121,166,246,321,322,446) & data$randomization ==
data$interventiongroup[data$T1ParticipantID %in% c(14,16,21,25,121,166,246,321,322,446) & data$randomization ==
data$interventiongroup[data$T1ParticipantID %in% c(28, 221, 317)] <- NA
data$trainingparticipant[is.na(data$trainingparticipant)] <- 0
data$hasT1T2data[is.na(data$hasT1T2data)] <- 0

data %<>% rename(T1HGMHfuturehelp = T1MHfuturehelp, T2HGMHfuturehelp = T2MHfuturehelp, T1FuncMen1 = T1FunMen1,
data$T1incomeopen <- str_replace_all(data$T1incomeopen, '\\$', 'dollars ')
data$T1incomeopen <- str_replace_all(data$T1incomeopen, '&', '')
data$T3interviewatT2whynot <- str_replace_all(data$T3interviewatT2whynot, ".*telef.*mwen te p.*", "telefn mwen
data$T1educationyears <- str_replace_all(data$T1educationyears, '(years|eme\\s).*','')
data$T1educationyears <- car::recode(data$T1educationyears, "c('mwen pa ale lekol', 'I can\\'t learn', '1 mont
                                     '6 months' = '0.5';
                                     'preparatwa 1' = '1';
                                     c('mwayen 2', 'segond') = '2';
                                     '6 an' = '6'; '7 eme' = '7';
                                     'LPP 8' = '8';
                                     c('teminal', ' teminal') = '12'")
data$T1educationyears <- as.numeric(data$T1educationyears)
```

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

```
data$T1religion <- str_replace_all(data$T1religion, '^adv.*', 'Advantist')
data$T1religion <- str_replace_all(data$T1religion, '^[bB](ap|at).*', 'Baptist')
data$T1religion <- str_replace_all(data$T1religion, '^anyen.*', 'Anything')
data$T1religion <- str_replace_all(data$T1religion, '^\\s?[cCkKl](ato|aro).*', 'Catholic')
data$T1religion <- str_replace_all(data$T1religion, '.*reli(jy|gi)on.*', 'None')
data$T1religion <- str_replace_all(data$T1religion, '^[pP][ea]n.*', 'Pentecostal')
data$T1religion <- str_replace_all(data$T1religion, '^\\s?[pP][orwe][ot].*', 'Protestant')
data$T1religion <- str_replace_all(data$T1religion, '^[vV]o.*', 'Voodoo')
data$T1religion <- str_replace_all(data$T1religion, '.*mon$', 'Mormon')
data$T1religion <- str_replace_all(data$T1religion, '.*(m gen yon religyon vre|m poko fe chwa|arme du salut).*
data$T1religion[data$T1religion == " "] <- NA
data$T1religion <- car::recode(data$T1religion, "c('nan tout relijyon yo', 'toutis') = 'All';
                                     c('dedieu', 'kretyen', 'chretyen', 'chretien', 'chretienne', 'corps de C
                                     'legliz de dieu' = 'Church of God';
                                     'kretyen batis' = 'Baptist';
                                     'katholik' = 'Catholic';
                                     c('levanjil', 'Full gospel') = 'Gospel';
                                     'temwn jehova' = 'Jehova\\'s Witness';
                                     'methodiste' = 'Methodist';
                                     'mizilman' = 'Muslim';
                                     c('anyen menm', 'mwen pa gen religion', 'none') = 'None';
                                     'okenn' = 'Other';
                                     'rastafaya' = 'Rastafarian';
                                     'lari a!' = 'The Street'")
data$T1religion <- factor(data$T1religion)
data$T1incomeopen <- factor(data$T1incomeopen)
data$T1incomesourcesopen <- factor(data$T1incomesourcesopen)
data$T1childrenopen <- as.numeric(data$T1childrenopen)
```

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

```r
data$T1childrenopen[data$T1childrenopen == 32] <- NA
data$T1childrenliveopen <- as.numeric(data$T1childrenliveopen)
```

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

```r
data$T1childrenliveopen[data$T1childrenliveopen == 2000] <- NA
data$T1childrenunder10open <- as.numeric(data$T1childrenunder10open)
```

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

```r
data$T1IDPcampwhereopen <- factor(data$T1IDPcampwhereopen)

data$idioms1_T[data$idioms1_T == 6] <- 1
data$idioms2_T[data$idioms2_T == 6] <- 1
data$idioms3_T[data$idioms3_T == 6] <- 1

data %<>% mutate(PTSD_T1 = select(., matches("^T1PTSD.*([0-9]|b)$"), -T1PTSD18) %>% rowMeans(na.rm = TRUE),
                 PTSD_T2 = select(., matches("^T2PTSD.*([0-9]|b)$"), -T2PTSD18) %>% rowMeans(na.rm = TRUE),
                 PTSD_T3 = select(., matches("^T3PTSD.*([0-9]|b)$"), -T3PTSD18) %>% rowMeans(na.rm = TRUE))

data %<>% mutate(PTSD_avoid_T1 = select(., T1PTSD5, T1PTSD6) %>% rowMeans,
                 PTSD_avoid_T2 = select(., T2PTSD5, T2PTSD6) %>% rowMeans,
                 PTSD_avoid_T3 = select(., T3PTSD5, T3PTSD6) %>% rowMeans)

data %<>% mutate(Anxmean_T1 = select(., starts_with("T1Anx")) %>% rowMeans(na.rm = TRUE),
                 Anxmean_T2 = select(., starts_with("T2Anx")) %>% rowMeans(na.rm = TRUE),
                 Anxmean_T3 = select(., starts_with("T3Anx")) %>% rowMeans(na.rm = TRUE))

data %<>% mutate(
  T1Cope7alc = max(T1Cope7alc, na.rm = TRUE) + 1 - T1Cope7alc,
  T1Cope12drugs = max(T1Cope12drugs, na.rm = TRUE) + 1 - T1Cope12drugs,
  T2Cope7alc = max(T2Cope7alc, na.rm = TRUE) + 1 - T2Cope7alc,
  T2Cope12drugs = max(T2Cope12drugs, na.rm = TRUE) + 1 - T2Cope12drugs,
  T3Cope7alc = max(T3Cope7alc, na.rm = TRUE) + 1 - T3Cope7alc,
  T3Cope12drugs = max(T3Cope12drugs, na.rm = TRUE) + 1 - T3Cope12drugs)

cope_var_names <- data %>% select(starts_with("T1Cope")) %>% names
for(name in cope_var_names) {
  data[[paste0(name)]][!is.na(data[[name]]) & data[[name]] > 1] <- data[[name]][!is.na(data[[name]]) & data[[na
}

cope_var_names <- data %>% select(starts_with("T2Cope")) %>% names
for(name in cope_var_names) {
  data[[paste0(name)]][!is.na(data[[name]]) & data[[name]] > 1] <- data[[name]][!is.na(data[[name]]) & data[[na
}

cope_var_names <- data %>% select(starts_with("T3Cope")) %>% names
for(name in cope_var_names) {
  data[[paste0(name)]][!is.na(data[[name]]) & data[[name]] > 1] <- data[[name]][!is.na(data[[name]]) & data[[na
}

data %<>% mutate(Cope_T1 = select(. , starts_with("T1Cope")) %>% rowMeans(na.rm = TRUE),
                 Cope_T2 = select(. , starts_with("T2Cope")) %>% rowMeans(na.rm = TRUE),
                 Cope_T3 = select(. , starts_with("T3Cope")) %>% rowMeans(na.rm = TRUE))

data %<>% mutate(Fatalism_T1 = select(., T1DisFat1, T1DisFat2) %>% rowMeans,
                 Fatalism_T2 = select(., T2DisFat1, T2DisFat2) %>% rowMeans,
                 Fatalism_T3 = select(., T3DisFat1, T3DisFat2) %>% rowMeans)

data %<>% mutate(Depmean_T1 = select(., starts_with("T1Dep")) %>% rowMeans(na.rm = TRUE),
                 Depmean_T2 = select(., starts_with("T2Dep")) %>% rowMeans(na.rm = TRUE),
```

```
                Depmean_T3 = select(., starts_with("T3Dep")) %>% rowMeans(na.rm = TRUE))

data %<>% mutate(SocCohmean_T1 = select(., starts_with('T1SocCoh1')) %>% rowMeans,
                 SocCohmean_T2 = select(., starts_with('T2SocCoh1')) %>% rowMeans,
                 SocCohmean_T3 = select(., starts_with('T3SocCoh1')) %>% rowMeans)

data %<>% mutate(ChronStress_T1 = select(., starts_with('T1Stress')) %>% rowSums,
                 ChronStress_T2 = select(., starts_with('T2Stress')) %>% rowSums,
                 ChronStress_T3 = select(., starts_with('T3Stress')) %>% rowSums)


data %<>% mutate(DisMHmean_T = select(., DisMH1AnxT, DisMH2DepT, DisMH3AvoidT) %>% rowMeans)
#data %<>% mutate(Flood_exposure_T2 = select()

data %<>% mutate(T2DP5Securedwelling_fixed = T2DP5SecuredwellingYES,
                 T2DP7Divertwater_fixed = T2DP7DivertwaterYES,
                 T3DP5Securedwelling_fixed = T3DP5SecuredwellingYES,
                 T3DP7Divertwater_fixed = T3DP7DivertwaterYES)
data$T2DP5Securedwelling_fixed[data$T2DP5SecuredwellingNO == 1] <- 0
data$T2DP7Divertwater_fixed[data$T2DP7DivertwaterNO == 1] <- 0
data$T3DP5Securedwelling_fixed[data$T3DP5SecuredwellingNO == 1] <- 0
data$T3DP7Divertwater_fixed[data$T3DP7DivertwaterNO == 1] <- 0

data$T2DP1bSupplykitseen <-  dplyr::recode(data$T2DP1bSupplykitseen, `10` = 0, `11` = 1)
data$T1DP6Raiseditems[data$T1DP6Raiseditems == 3] <- mean(data$T1DP6Raiseditems[data$T1DP6Raiseditems != 3], n
data$T1DP12Talkchildren[data$T1DP12Talkchildren == 3] <- mean(data$T1DP12Talkchildren[data$T1DP12Talkchildren
data$T2DP2Meds[data$T2DP2Meds == 5] <- mean(data$T2DP2Meds[data$T2DP2Meds != 5], na.rm = TRUE)
data$T2DP3Foodwaterseen <-  dplyr::recode(data$T2DP3Foodwaterseen, `10` = 0, `9` = 1)
data$T2DP4docsseen <-  dplyr::recode(data$T2DP4docsseen, `10` = 0, `9` = 1)
data$T2DP5bSecuredwellingseen <- dplyr::recode(data$T2DP5bSecuredwellingseen, `10` = 0, `11` = 1)
data$T2DP6Raiseditems[data$T2DP6Raiseditems == 3] <- mean(data$T2DP6Raiseditems[data$T2DP6Raiseditems != 3], n
data$T2DP6bRaiseditemsseen <-  dplyr::recode(data$T2DP6bRaiseditemsseen, `10` = 0, `9` = 1)
data$T2DP7bDivertwaterseen <-  dplyr::recode(data$T2DP7bDivertwaterseen, `19` = 0, `20` = 1)
data$T2DP22Whereexperts[data$T2DP22Whereexperts == 2] <- 0
data$T3DP2Meds[data$T3DP2Meds == 5] <- mean(data$T3DP2Meds[data$T3DP2Meds != 5], na.rm = TRUE)
data$T3DP6Raiseditems[data$T3DP6Raiseditems == 3] <- mean(data$T3DP6Raiseditems[data$T3DP6Raiseditems != 3], n
data$T3DP12Talkchildren[data$T3DP12Talkchildren == 3] <- mean(data$T3DP12Talkchildren[data$T3DP12Talkchildren

data$T3DP1Supplykit[is.na(data$T3DP1Supplykit)] <- 0
data$T3DP2Meds[is.na(data$T3DP2Meds)] <- 0
data$T3DP3Foodwater[is.na(data$T3DP3Foodwater)] <- 0
data$T3DP20Safeplaceflood[is.na(data$T3DP20Safeplaceflood)] <- 0
data$T3DP21riskysafecommunity[is.na(data$T3DP21riskysafecommunity)] <- 0
data %<>% mutate(DP_cleaned_T1 = select(., T1DP1Supplykit,
                                        T1DP2Meds,
                                        T1DP3Foodwater,
                                        T1DP4docs,
                                        T1DP5Securedwelling,
                                        T1DP6Raiseditems,
                                        T1DP7Divertwater,
                                        T1DP8Removedobjects,
                                        T1DP9Famplan,
                                        T1DP10Evacplan,
                                        T1DP11Reconnectplan,
                                        T1DP12Talkchildren,
                                        T1DP13Radiotvcomp,
                                        T1DP14Firstaid,
                                        T1DP15Cleanwater,
                                        T1DP16Disinfect,
```

```
                                        T1DP17Sanitation,
                                        T1DP20Safeplaceflood,
                                        T1DP21riskysafecommunity,
                                        T1DP22Helpfriends) %>% rowSums,
                DP_cleaned_T2 = select(., T2DP1Supplykit,
                                        T2DP2Meds,
                                        T2DP3Foodwater,
                                        T2DP4docs,
                                        T2DP5Securedwelling_fixed,
                                        T2DP6Raiseditems,
                                        T2DP7Divertwater_fixed,
                                        T2DP8Removedobjects,
                                        T2DP9Famplan,
                                        T2DP10Evacplan,
                                        T2DP11Reconnectplan,
                                        T2DP12Talkchildren,
                                        T2DP13Radiotvcomp,
                                        T2DP14Firstaid,
                                        T2DP15Cleanwater,
                                        T2DP16Disinfect,
                                        T2DP17Sanitation,
                                        T2DP18Safeplaceflood,
                                        T2DP19riskysafecommunity,
                                        T2DP20Helpfriends) %>% rowSums,
                DP_cleaned_T3 = select(., T3DP1Supplykit,
                                        T3DP2Meds,
                                        T3DP3Foodwater,
                                        T3DP4docs,
                                        T3DP5Securedwelling_fixed,
                                        T3DP6Raiseditems,
                                        T3DP7Divertwater_fixed,
                                        T3DP8Removedobjects,
                                        T3DP9Famplan,
                                        T3DP10Evacplan,
                                        T3DP11Reconnectplan,
                                        T3DP12Talkchildren,
                                        T3DP13Radiotvcomp,
                                        T3DP14Firstaid,
                                        T3DP15Cleanwater,
                                        T3DP16Disinfect,
                                        T3DP17Sanitation,
                                        T3DP20Safeplaceflood,
                                        T3DP21riskysafecommunity,
                                        T3DP22Helpfriends) %>% rowSums)

data %<>% mutate(DP_cleaned_excludedItems_T1 = select(., T1DP2Meds,
                                        T1DP3Foodwater,
                                        T1DP4docs,
                                        T1DP5Securedwelling,
                                        T1DP6Raiseditems,
                                        T1DP7Divertwater,
                                        T1DP8Removedobjects,
                                        T1DP9Famplan,
                                        T1DP10Evacplan,
                                        T1DP11Reconnectplan,
                                        T1DP12Talkchildren,
                                        T1DP13Radiotvcomp,
                                        T1DP14Firstaid,
                                        T1DP15Cleanwater,
```

```
                                    T1DP16Disinfect,
                                    T1DP17Sanitation,
                                    T1DP20Safeplaceflood,
                                    T1DP21riskysafecommunity,
                                    T1DP22Helpfriends) %>% rowSums,
                DP_cleaned_excludedItems_T2 = select(., T2DP2Meds,
                                    T2DP3Foodwater,
                                    T2DP4docs,
                                    T2DP5Securedwelling_fixed,
                                    T2DP6Raiseditems,
                                    T2DP7Divertwater_fixed,
                                    T2DP8Removedobjects,
                                    T2DP9Famplan,
                                    T2DP10Evacplan,
                                    T2DP11Reconnectplan,
                                    T2DP12Talkchildren,
                                    T2DP13Radiotvcomp,
                                    T2DP14Firstaid,
                                    T2DP15Cleanwater,
                                    T2DP16Disinfect,
                                    T2DP17Sanitation,
                                    T2DP18Safeplaceflood,
                                    T2DP19riskysafecommunity,
                                    T2DP20Helpfriends) %>% rowSums,
                DP_cleaned_excludedItems_T3 = select(., T3DP2Meds,
                                    T3DP3Foodwater,
                                    T3DP4docs,
                                    T3DP5Securedwelling_fixed,
                                    T3DP6Raiseditems,
                                    T3DP7Divertwater_fixed,
                                    T3DP8Removedobjects,
                                    T3DP9Famplan,
                                    T3DP10Evacplan,
                                    T3DP11Reconnectplan,
                                    T3DP12Talkchildren,
                                    T3DP13Radiotvcomp,
                                    T3DP14Firstaid,
                                    T3DP15Cleanwater,
                                    T3DP16Disinfect,
                                    T3DP17Sanitation,
                                    T3DP20Safeplaceflood,
                                    T3DP21riskysafecommunity,
                                    T3DP22Helpfriends) %>% rowSums)

to_melt_suffix <- c('PTSD_T', 'PTSD_avoid_T', 'Cope_T', 'Fatalism_T', 'Depmean_T', 'SocCohmean_T', 'Anxmean_T'

for(i in to_melt_suffix) {
  data[[i]] <- melt_data_suffix(i)
}

data$PTSD_T <- data$PTSD_T + 1

#invisible(lapply(to_melt_suffix, function(x) data[[x]] <- melt_data_suffix(x)))
cope_var_names <- data %>% select(starts_with("T1Cope")) %>% names
to_melt_prefix <- c('T1HSMHDistressfault', 'T1HGDfuturedisprephelp', 'T1HGDfutureafterdishelp', 'T1HGMHfutureh

for(i in to_melt_prefix){
  data[[paste0(substr(i,3,nchar(i)), '_T')]] <- melt_data_prefix(i)
}
```

```
## Warning in melt_data_prefix(i): NAs introduced by coercion

## Warning in melt_data_prefix(i): NAs introduced by coercion
```

```
data %<>% mutate(DisAtNatural_mean_T1 = select(., T1DisAtEQ1natural,T1DisAtflood1natural,T1DisAtpeople1natural
                 DisAtNatural_mean_T2 = select(., T2DisAtEQ1natural,T2DisAtflood1natural,T2DisAtpeople1natural
                 DisAtNatural_mean_T = select(., DisAtEQ1natural_T,DisAtflood1natural_T,DisAtpeople1natural_T)
                 DisAtGodswill_mean_T = select(., DisAtEQ2godswill_T,DisAtflood2godswill_T,DisAtpeople2godswil
                 DisAtVoodoo_mean_T = select(., DisAtEQ3voodoo_T,DisAtflood3voodoo_T,DisAtpeople3voodoo_T) %>%
                 DisAtBadluck_mean_T = select(., DisAtEQ4Badluck_T,DisAtflood4badluck_T,DisAtpeople4badluck_T)
                 DisAtFaultHaitians_mean_T = select(., DisAtEQ5faultHaitians_T,DisAtflood5faulthaitians_T,DisA
                 DisAtHumanmade_mean_T = select(., DisAtEQ6humanmade_T, DisAtflood6humanmade_T,DisAtpeople6hum

#invisible(lapply(to_melt_prefix, function(x) data[[paste0(substr(x, 3, nchar(x)), '_T')]] <- melt_data_prefix
to_recode <- c('HSMHfuturehelp1god_T','HSMHfuturehelp2pastor_T','HSMHfuturehelp3voodoo_T','HSMHfuturehelp4neig
T1_trauma_var_names <- data %>% filter(timePoint_factor == "1") %>%  select(starts_with('T1Trauma'), -contains
T3_trauma_var_names <- data %>% select(starts_with("T3Trauma"), -ends_with('time'), -matches('R$'), -T3Trauma2

to_recode <- c(to_recode, T1_trauma_var_names, T3_trauma_var_names)

for(i in to_recode){
  data[[i]][data[[i]] == 2] <- 0
}

data$T1Trauma1EQ[data$T1Trauma1EQ == 13] <- 1
data$T1Trauma1EQ[data$T1Trauma1EQ == 14] <- 0

data %<>% mutate(TraumaNatural_T1 = select(., T1_trauma_var_names[1:11]) %>% rowSums,
                 TraumaOther_T1 = select(., T1_trauma_var_names[12:21]) %>% rowSums,
                 TraumaNatural_T3 = select(., T3_trauma_var_names[1:10]) %>% rowSums,
                 TraumaOther_T3 = select(., T3_trauma_var_names[11:20]) %>% rowSums)
data$TraumaNatural_T3 <- data$TraumaNatural_T3 + 1
data %<>% select(-traumaExposureT3, -traumaexpT3)

#data %<>% mutate(TraumaNatural_T1 = select(., matches("^T1Trauma([1-9]|10|11)\\D.*[^R]$"), -ends_with("times"
 #                TraumaNatural_T3 = select(., matches("^T3Trauma([1-9]|10)\\D.*[^R]$")) %>% rowSums)


data$T2TrainParticipatedintraining[data$T2TrainParticipatedintraining == 9] <- 1
data$T2TrainParticipatedintraining[data$T2TrainParticipatedintraining == 10] <- 0
data$T2Trainrate1 <- dplyr::recode(data$T2Trainrate1, `4` = 1, `6` = 2, `3` = 3, `2` = 4, `1` = 5)
data$T2Trainrate2 <- dplyr::recode(data$T2Trainrate2, `4` = 1, `6` = 2, `3` = 3, `2` = 4, `1` = 5)
data$T2Trainrate3 <- dplyr::recode(data$T2Trainrate3, `4` = 1, `6` = 2, `3` = 3, `2` = 4, `1` = 5)
data$T2Trainrate4 <- dplyr::recode(data$T2Trainrate4, `4` = 1, `6` = 2, `3` = 3, `2` = 4, `1` = 5)
data$T3SLMMHclinichelpfulness <- dplyr::recode(as.numeric(data$T3SLMMHclinichelpfulness), `6` = 1, `7` = 2, `8
data$T2HSMHfloodsadness <- dplyr::recode(as.numeric(data$T2HSMHfloodsadness), `6` = 0, `4` = 1, `3` = 4, `5` =
data$T3HSMHfloodsadness <- dplyr::recode(as.numeric(data$T3HSMHfloodsadness), `6` = 0, `4` = 1, `3` = 4, `5` =
data$HSMHfloodsadness_T <- data$T2HSMHfloodsadness
data$HSMHfloodsadness_T[data$timePoint == 3] <- data$T3HSMHfloodsadness[data$timePoint == 3]
data$HSMHfloodsadness_T[data$timePoint == 1] <- NA

data$T2HSMHpasthelp[data$T2HSMHpasthelp == 10] <- 0
data$T2HSMHpasthelp[data$T2HSMHpasthelp == 9] <- 1
data$T3HSMHpasthelp[data$T3HSMHpasthelp == 10] <- 0
data$T3HSMHpasthelp[data$T3HSMHpasthelp == 9] <- 1
data$HSMHpasthelp_T <- data$T2HSMHpasthelp
data$HSMHpasthelp_T[data$timePoint == 3] <- data$T3HSMHpasthelp[data$timePoint == 3]
data$HSMHpasthelp_T[data$timePoint == 1] <- NA

data$HGMHhelpedsomeonerecentflood_T2 <- data$T2HGMHhelpedsomeonerecentflood
data$HGMHhelpedsomeonerecentflood_T2[data$timePoint != 2] <- NA
```

```
data$HGMHhelpedsomeonerecentflood_T2[data$HGMHhelpedsomeonerecentflood_T2 == 9] <- 1
data$HGMHhelpedsomeonerecentflood_T2[data$HGMHhelpedsomeonerecentflood_T2 == 10] <- 0

data$SocCoh3floodreceivedhelp_T2 <- data$T2SocCoh3floodreceivedhelp
data$SocCoh3floodreceivedhelp_T2[data$SocCoh3floodreceivedhelp_T2 == 10] <- 0
data$SocCoh3floodreceivedhelp_T2[data$SocCoh3floodreceivedhelp_T2 == 11] <- 1
data$SocCoh3floodreceivedhelp_T2[data$timePoint != 2] <- NA

data$SocCoh3disprepreceivedhelp_T3 <- data$T3SocCoh3disprepreceivedhelp
data$SocCoh3disprepreceivedhelp_T3[data$SocCoh3disprepreceivedhelp_T3 == 10] <- 0
data$SocCoh3disprepreceivedhelp_T3[data$SocCoh3disprepreceivedhelp_T3 == 11] <- 1
data$SocCoh3disprepreceivedhelp_T3[data$timePoint != 3] <- NA

data$HSDpasthelp_T <- data$T2HSDpasthelp
data$HSDpasthelp_T[data$timePoint == 3] <- data$T3HSDpasthelp[data$timePoint ==3]
data$HSDpasthelp_T[data$timePoint == 1] <- NA

data$HSDpasthelp_T[data$HSDpasthelp_T == 10] <- 1
data$HSDpasthelp_T[data$HSDpasthelp_T == 11] <- 0
data$HGDfuturedisprephelp_T[data$HGDfuturedisprephelp_T == 2] <- 0
data$HGDfutureafterdishelp_T[data$HGDfutureafterdishelp_T == 2] <- 0
data$HGMHfuturehelp_T[data$HGMHfuturehelp_T == 2] <- 0
data$HGMHskillshelp_T[data$HGMHskillshelp_T == 2] <- 0
data %<>% mutate(HelpGivingDisGen_T = select(., HGDfuturedisprephelp_T, HGDfutureafterdishelp_T) %>% rowSums,
                 HelpGivingMental_T = select(., HGMHfuturehelp_T, HGMHskillshelp_T) %>% rowSums)

cope_var_names <- paste0(substr(cope_var_names, 3, nchar(cope_var_names)),"_T")

factor_dvs <- c('idioms1_T', 'idioms2_T', 'idioms3_T', 'DisMH1AnxT', 'DisMH2DepT', 'DisMH3AvoidT', 'HSMHDistre
data %<>% mutate_at(factor_dvs, funs(factor(.)))

# these variables necessary for mediation analyses conducted in STATA
data %<>% reverse_melt('Funcmean_T')
data %<>% mutate(Depmean_delta_T1T2 = Depmean_T2 - Depmean_T1,
                 PTSD_delta_T1T2 = PTSD_T2 - PTSD_T1,
                 PTSD_avoid_delta_T1T2 = PTSD_avoid_T2 - PTSD_avoid_T1,
                 Anxmean_delta_T1T2 = Anxmean_T2 - Anxmean_T1,
                 Funcmean_delta_T1T2 = Funcmean_T2 - Funcmean_T1,
                 DP_cleaned_delta_T1T2 = DP_cleaned_T2 - DP_cleaned_T1,
                 SocCohmean_delta_T1T2 = SocCohmean_T2 - SocCohmean_T1,
                 DisAtNatural_delta_T1T2 = DisAtNatural_mean_T2 - DisAtNatural_mean_T1)

#filtered <- data %>% filter(trainingControl == 1 & !is.na(interventiongroup))
data$interventiongroup <- data$randomization
filtered <- data

#write_dta(filtered, 'C:/Users/ajame/Dropbox/Haiti data/ITT.dta', version = 14)
#write_sav(filtered %>% filter(timePoint_factor == "1") %>% select(interventiongroup, Depmean_delta_T1T2, PTSD
```

First let's get descriptive statistics for time 1 data to look at distributions in intervention vs control groups (which should be similar). First we will do this with all subjects, afterwards we will repeat with only our filtered dataset containing subjects that have data at times 1 and 2 and subjects who, if assigned, participated in the intervention / training.

```
T1_randomization <- data %>% filter(timePoint_factor == "1") %>% select(randomization) %>% as.data.frame

T1_chron_stress_vars <- data %>% filter(timePoint_factor == "1") %>% select(starts_with('T1Stress'))

T1_trauma_vars <- data %>% filter(timePoint_factor == "1") %>%  select(starts_with('T1Trauma'), -contains('tim

T1_scales <- data %>% filter(timePoint_factor == "1") %>% select(PTSD_T, Depmean_T, Anxmean_T, Funcmean_T, Cop
```

```
T1_scales %<>% rename(Depsum_T = Depmean_T, PTSD_sum_T = PTSD_T, Anxsum_T = Anxmean_T)
T1_scales %<>% mutate(Depsum_T = (Depsum_T-1) * 13, PTSD_sum_T = (PTSD_sum_T-1) * 34, Anxsum_T = Anxsum_T * 21

T1_demographics <- data %>% filter(timePoint_factor == "1") %>%  select(gender, T1Married_A, T1howlongliving

T1_demographics_nomimal <- T1_demographics %>% select_if(function(x) is.numeric(x) | is.factor(x)) %>% select(
T1_demographics_continuous <- data %>% filter(timePoint_factor == "1") %>% select(T1welloff, T1Age, T1educatio

T1_demographics_income <- data %>% filter(timePoint_factor == "1") %>% select(T1incomeopen, T1incomesourcesope

T1_DP_vars <- data %>% filter(timePoint_factor == "1") %>% select(T1DP1Supplykit, T1DP2Meds,T1DP3Foodwater, T1

T2_DP_vars <- data %>% filter(timePoint_factor == "2") %>% select(T2DP1Supplykit, T2DP2Meds, T2DP3Foodwater, T

T3_DP_vars <- data %>% filter(timePoint_factor == "3") %>% select(T3DP1Supplykit, T3DP2Meds, T3DP3Foodwater, T
```

```
tableNominal(vars = as.data.frame(T1_demographics_nomimal), group = T1_randomization[,1], print.pval = "fisher
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sat Apr 07 18:18:12 2018

Variable	**Levels**	$\mathbf{n}_{\text{Control}}$	$\%_{\text{Control}}$	$\mathbf{n}_{\text{Intervention}}$	$\%_{\text{Intervention}}$	$\mathbf{n}_{\text{all}}$	$\%_{\text{all}}$
gender	Female	122	50.8	117	48.8	239	49.8
	Male	118	49.2	123	51.2	241	50.2
$p = 0.72$	all	240	100.0	240	100.0	480	100.0
T1Married_A	0	171	72.8	185	78.1	356	75.4
	1	64	27.2	52	21.9	116	24.6
$p = 0.20$	all	235	100.0	237	100.0	472	100.0
T1IDPcamp	0	180	76.0	163	68.5	343	72.2
	1	57	24.1	75	31.5	132	27.8
$p = 0.08$	all	237	100.0	238	100.0	475	100.0
T1IDPcampwhereopen		185	77.1	166	69.2	351	73.1
	5eme avni	1	0.4	0	0.0	1	0.2
	adoken delma 33	1	0.4	0	0.0	1	0.2
	anncho/bolos/nan bannann	0	0.0	1	0.4	1	0.2
	ba tisous	0	0.0	1	0.4	1	0.2
	bo asyeri	1	0.4	0	0.0	1	0.2
	bo sakala	1	0.4	0	0.0	1	0.2
	bon berger	1	0.4	0	0.0	1	0.2
	bon repo	1	0.4	0	0.0	1	0.2
	boulos simon	0	0.0	1	0.4	1	0.2
	canaan	1	0.4	1	0.4	2	0.4
	Canaan	0	0.0	3	1.2	3	0.6
	canara	0	0.0	1	0.4	1	0.2
	canaran	2	0.8	5	2.1	7	1.5
	champ de mars	1	0.4	0	0.0	1	0.2
	Chanmas	0	0.0	1	0.4	1	0.2
	channmas	1	0.4	0	0.0	1	0.2
	cite soley	1	0.4	0	0.0	1	0.2
	coseha, Delmas 31	0	0.0	1	0.4	1	0.2
	dadadou	1	0.4	0	0.0	1	0.2
	damien	0	0.0	1	0.4	1	0.2
	delmas	2	0.8	0	0.0	2	0.4
	delmas 2	0	0.0	1	0.4	1	0.2
	delmas 42	1	0.4	0	0.0	1	0.2
	delmas b1	1	0.4	0	0.0	1	0.2
	delmas mayigate8	1	0.4	0	0.0	1	0.2
	delmas40	0	0.0	1	0.4	1	0.2
	gaston magon	1	0.4	3	1.2	4	0.8
	gastron magron	0	0.0	1	0.4	1	0.2
	jakmel	1	0.4	0	0.0	1	0.2
	kafou	2	0.8	1	0.4	3	0.6
	kafou divye	1	0.4	0	0.0	1	0.2
	kafou la menm	0	0.0	1	0.4	1	0.2
	kafou tou pre	1	0.4	0	0.0	1	0.2
	kan gaston mago	0	0.0	1	0.4	1	0.2
	kan gaston magon	0	0.0	1	0.4	1	0.2
	kan geralbatay kazeli	0	0.0	1	0.4	1	0.2
	kan gospel	1	0.4	1	0.4	2	0.4
	kan Gospel	1	0.4	0	0.0	1	0.2
	kan kamep	1	0.4	0	0.0	1	0.2

	kan kamep la	0	0.0	1	0.4	1	0.2
	kan labank	1	0.4	1	0.4	2	0.4
	kan lochamo	0	0.0	1	0.4	1	0.2
	kan peliko	0	0.0	1	0.4	1	0.2
	kan reji	0	0.0	1	0.4	1	0.2
	kan rivye fwad	1	0.4	0	0.0	1	0.2
	kan sou pis	0	0.0	1	0.4	1	0.2
	kan st louis	1	0.4	0	0.0	1	0.2
	kanaan	2	0.8	5	2.1	7	1.5
	kanann	1	0.4	0	0.0	1	0.2
	kannaan	0	0.0	1	0.4	1	0.2
	kannan	0	0.0	1	0.4	1	0.2
	karade	0	0.0	3	1.2	3	0.6
	karede	0	0.0	1	0.4	1	0.2
	kwadebouke	0	0.0	1	0.4	1	0.2
	kyos pele simon	1	0.4	0	0.0	1	0.2
	lakou legliz	1	0.4	0	0.0	1	0.2
	lakou promobank	1	0.4	0	0.0	1	0.2
	lamaten54	0	0.0	1	0.4	1	0.2
	lapl<e8>n	0	0.0	1	0.4	1	0.2
	laplen	0	0.0	1	0.4	1	0.2
	letri zon damyen	0	0.0	1	0.4	1	0.2
	lilavwa 35	1	0.4	0	0.0	1	0.2
	maigate 1	0	0.0	1	0.4	1	0.2
	mais gate	0	0.0	1	0.4	1	0.2
	mariani	0	0.0	1	0.4	1	0.2
	mariani 1	2	0.8	0	0.0	2	0.4
	mariani 1,paste Eli	0	0.0	1	0.4	1	0.2
	mayigate 2 kay maga	1	0.4	0	0.0	1	0.2
	michiko	0	0.0	2	0.8	2	0.4
	oto meka	0	0.0	1	0.4	1	0.2
	pak jan mari vensan	0	0.0	1	0.4	1	0.2
	pak jan mari vincent	0	0.0	1	0.4	1	0.2
	paloma	0	0.0	1	0.4	1	0.2
	pax vila	1	0.4	0	0.0	1	0.2
	pele,site milite	0	0.0	1	0.4	1	0.2
	pis	0	0.0	1	0.4	1	0.2
	place fyete site soley	1	0.4	0	0.0	1	0.2
	plas boyer	0	0.0	1	0.4	1	0.2
	plas fierte	0	0.0	3	1.2	3	0.6
	plas fyete	1	0.4	2	0.8	3	0.6
	plas fyete site soley	0	0.0	1	0.4	1	0.2
	plas klesin	1	0.4	0	0.0	1	0.2
	regi	1	0.4	0	0.0	1	0.2
	reji	1	0.4	0	0.0	1	0.2
	riji nan boston	1	0.4	0	0.0	1	0.2
	sakala	0	0.0	1	0.4	1	0.2
	site	1	0.4	0	0.0	1	0.2
	site milit<e8>	1	0.4	1	0.4	2	0.4
	soley kan fyete	1	0.4	0	0.0	1	0.2
	sou adoken	1	0.4	0	0.0	1	0.2
	sou pis avyasyon	0	0.0	1	0.4	1	0.2
	tabarre	1	0.4	0	0.0	1	0.2
	teren peliko	1	0.4	0	0.0	1	0.2
	teren platali	0	0.0	1	0.4	1	0.2
	ti plas kazo	0	0.0	1	0.4	1	0.2
	vilaj	1	0.4	0	0.0	1	0.2
	vilaj gaston	1	0.4	0	0.0	1	0.2
$p = 0.13$	all	240	100.1	240	100.2	480	100.1
T1Aemployed	0	224	94.5	224	94.1	448	94.3
	1	13	5.5	14	5.9	27	5.7
$p = 1.00$	all	237	100.0	238	100.0	475	100.0
T1school	0	149	63.1	156	66.1	305	64.6
	1	87	36.9	80	33.9	167	35.4
$p = 0.56$	all	236	100.0	236	100.0	472	100.0
T1religion	Advantist	2	0.9	9	3.9	11	2.4
	All	1	0.4	0	0.0	1	0.2
	Anything	2	0.9	2	0.9	4	0.9
	Baptist	12	5.2	15	6.5	27	5.8
	Catholic	79	34.0	69	29.7	148	31.9
	Christian	9	3.9	9	3.9	18	3.9
	Church of God	0	0.0	1	0.4	1	0.2
	Gospel	1	0.4	1	0.4	2	0.4
	Jehova's Witness	0	0.0	1	0.4	1	0.2
	Methodist	0	0.0	1	0.4	1	0.2

	Mormon	1	0.4	0	0.0	1	0.2
	Muslim	0	0.0	1	0.4	1	0.2
	None	6	2.6	17	7.3	23	5.0
	Other	2	0.9	0	0.0	2	0.4
	Pentecostal	12	5.2	16	6.9	28	6.0
	Protestant	100	43.1	86	37.1	186	40.1
	Rastafarian	0	0.0	1	0.4	1	0.2
	The Street	1	0.4	0	0.0	1	0.2
	Voodoo	4	1.7	3	1.3	7	1.5
$p = 0.12$	all	232	100.0	232	100.0	464	100.0

Table 1: Whole dataset - Demographics at time 1 - descriptive statistics and Fisher's exact test p-values

```
tableContinuous(vars = as.data.frame(T1_demographics_continuous),  group = T1_randomization[,1], stats = c('n'
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sat Apr 07 18:18:12 2018

Variable	Levels	n	Min	q_1	$\widetilde{x}$	$\bar{x}$	q_3	Max	s
T1welloff	Control	236	1	3.00	3.00	2.85	3	5	0.73
	Intervention	238	1	3.00	3.00	2.93	3	5	0.69
$p = 0.21$	all	474	1	3.00	3.00	2.89	3	5	0.71
T1Age	Control	234	18	27.00	35.00	38.03	48	78	14.27
	Intervention	236	18	26.00	34.00	35.90	43	75	12.73
$p = 0.09$	all	470	18	26.00	34.00	36.96	46	78	13.55
T1educationyears	Control	228	0	4.00	6.50	7.19	11	16	4.38
	Intervention	227	0	4.00	7.00	7.34	11	20	4.71
$p = 0.73$	all	455	0	4.00	7.00	7.26	11	20	4.54
T1childrenopen	Control	233	0	1.00	2.00	2.88	4	13	2.51
	Intervention	237	0	0.00	2.00	2.38	3	14	2.48
$p = 0.03$	all	470	0	0.25	2.00	2.63	4	14	2.51
T1childrenliveopen	Control	226	0	0.00	2.00	2.00	3	8	1.92
	Intervention	225	0	0.00	1.00	1.69	3	9	1.84
$p = 0.08$	all	451	0	0.00	1.00	1.85	3	9	1.88
T1childrenunder10open	Control	221	0	0.00	1.00	0.86	1	7	1.15
	Intervention	217	0	0.00	1.00	1.00	2	8	1.36
$p = 0.23$	all	438	0	0.00	1.00	0.93	1	8	1.26

Table 2: Whole dataset - Demographics at time 1 - descriptive statistics and t-test p-values

```
tableContinuous(vars = as.data.frame(T1_scales), group = T1_randomization[,1], stats = c('n', 'min', 'q1', 'me
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sat Apr 07 18:18:12 2018

Variable	Levels	n	Min	q_1	$\widetilde{x}$	$\bar{x}$	q_3	Max	s
PTSD_sum_T	Control	239	0.00	6.00	23.00	32.55	55.50	123.00	31.17
	Intervention	240	0.00	9.00	26.50	35.24	56.25	120.00	32.45
$p = 0.36$	all	479	0.00	6.00	24.00	33.89	56.00	123.00	31.81
Depsum_T	Control	237	0.00	4.00	10.00	11.86	18.00	39.00	9.08
	Intervention	240	0.00	4.00	10.00	12.36	20.00	39.00	9.96
$p = 0.57$	all	477	0.00	4.00	10.00	12.11	19.00	39.00	9.53
Anxsum_T	Control	237	0.00	4.00	12.00	14.91	23.00	63.00	13.12
	Intervention	240	0.00	4.00	11.00	16.18	25.26	60.00	14.51
$p = 0.31$	all	477	0.00	4.00	12.00	15.55	24.00	63.00	13.83
Funcmean_T	Control	232	1.00	1.50	2.29	2.47	3.25	5.00	1.19
	Intervention	236	1.00	1.50	2.23	2.46	3.29	5.00	1.18
$p = 0.93$	all	468	1.00	1.50	2.25	2.46	3.25	5.00	1.18
Cope_T	Control	237	1.59	2.59	3.06	3.06	3.47	4.53	0.70
	Intervention	239	1.53	2.59	3.12	3.07	3.47	4.53	0.69
$p = 0.83$	all	476	1.53	2.59	3.12	3.06	3.47	4.53	0.70
ChronStress_T1	Control	193	0.00	6.00	11.00	10.50	15.00	24.00	5.64
	Intervention	202	0.00	5.00	10.00	10.06	15.00	24.00	6.00
$p = 0.46$	all	395	0.00	5.00	10.00	10.28	15.00	24.00	5.82
TraumaNatural_T1	Control	238	1.00	4.00	5.00	5.59	7.00	11.00	2.28
	Intervention	236	0.00	4.00	6.00	5.85	7.00	11.00	2.19
$p = 0.20$	all	474	0.00	4.00	6.00	5.72	7.00	11.00	2.24
TraumaOther_T1	Control	234	0.00	0.00	1.00	1.68	3.00	8.00	1.86
	Intervention	240	0.00	0.00	1.00	2.04	3.00	9.00	2.12
$p = 0.05$	all	474	0.00	0.00	1.00	1.86	3.00	9.00	2.00
DP_cleaned_T	Control	199	0.00	6.00	12.00	10.99	16.00	19.00	5.63

	Intervention	206	0.00	7.00	13.00	11.26	16.00	20.00	5.57
$p = 0.63$	all	405	0.00	6.00	12.00	11.13	16.00	20.00	5.59
SocCohmean_T	Control	234	1.00	2.00	2.80	2.66	3.00	5.00	0.98
	Intervention	237	1.00	2.00	2.60	2.66	3.20	5.00	0.97
$p = 1.00$	all	471	1.00	2.00	2.60	2.66	3.20	5.00	0.97

Table 3: Whole dataset - Scales at time 1 - descriptive statistics and t-test p-values

```
tableContinuous(vars = as.data.frame(T1_chron_stress_vars), group = T1_randomization[,1], stats = c('n', 'min'
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sat Apr 07 18:18:13 2018

Variable	**Levels**	**n**	**Min**	$\mathbf{q_1}$	$\tilde{\mathbf{x}}$	$\bar{\mathbf{x}}$	$\mathbf{q_3}$	**Max**	**s**
T1Stress1	Control	238	0	1	2.00	1.36	2	2	0.78
	Intervention	240	0	1	2.00	1.35	2	2	0.79
$p = 0.97$	all	478	0	1	2.00	1.36	2	2	0.78
T1Stress2	Control	238	0	0	1.00	1.14	2	2	0.84
	Intervention	240	0	0	1.00	1.11	2	2	0.88
$p = 0.74$	all	478	0	0	1.00	1.13	2	2	0.86
T1Stress3	Control	237	0	0	1.00	0.95	2	2	0.86
	Intervention	240	0	0	1.00	0.88	2	2	0.89
$p = 0.36$	all	477	0	0	1.00	0.91	2	2	0.88
T1Stress5	Control	238	0	0	0.00	0.37	0	2	0.70
	Intervention	239	0	0	0.00	0.32	0	2	0.67
$p = 0.45$	all	477	0	0	0.00	0.34	0	2	0.68
T1Stress6	Control	234	0	0	0.00	0.24	0	2	0.56
	Intervention	240	0	0	0.00	0.17	0	2	0.50
$p = 0.14$	all	474	0	0	0.00	0.20	0	2	0.53
T1Stress7	Control	234	0	0	1.00	0.91	2	2	0.93
	Intervention	239	0	0	1.00	0.90	2	2	0.93
$p = 0.98$	all	473	0	0	1.00	0.90	2	2	0.93
T1Stress8	Control	237	0	0	1.00	0.89	2	2	0.90
	Intervention	240	0	0	1.00	0.92	2	2	0.91
$p = 0.68$	all	477	0	0	1.00	0.90	2	2	0.90
T1Stress9	Control	235	0	1	2.00	1.49	2	2	0.81
	Intervention	240	0	1	2.00	1.50	2	2	0.80
$p = 0.80$	all	475	0	1	2.00	1.49	2	2	0.81
T1Stress10	Control	235	0	0	0.00	0.59	1	2	0.82
	Intervention	238	0	0	0.00	0.55	1	2	0.83
$p = 0.67$	all	473	0	0	0.00	0.57	1	2	0.83
T1Stress11	Control	234	0	0	0.00	0.44	1	2	0.75
	Intervention	236	0	0	0.00	0.50	1	2	0.81
$p = 0.48$	all	470	0	0	0.00	0.47	1	2	0.78
T1Stress12	Control	238	0	0	1.50	1.19	2	2	0.88
	Intervention	240	0	0	2.00	1.25	2	2	0.87
$p = 0.45$	all	478	0	0	2.00	1.22	2	2	0.88
T1Stress4	Control	207	0	0	1.00	0.79	2	2	0.85
	Intervention	209	0	0	0.00	0.80	2	2	0.88
$p = 0.89$	all	416	0	0	1.00	0.79	2	2	0.86

Table 4: Whole dataset - Chronic stress items at time 1 - descriptive statistics and t-test p-values

```
tableNominal(vars = as.data.frame(T1_DP_vars), group = T1_randomization[,1], print.pval = "fisher", fisher.B =
```

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Variable	**Levels**	$\mathbf{n}_{\text{Control}}$	$\%_{\text{Control}}$	$\mathbf{n}_{\text{Intervention}}$	$\%_{\text{Intervention}}$	$\mathbf{n}_{\text{all}}$	$\%_{\text{all}}$
T1DP1Supplykit	0	82	34.2	104	43.3	186	38.8
	1	158	65.8	136	56.7	294	61.2
$p = 0.05$	all	240	100.0	240	100.0	480	100.0
T1DP2Meds	0	88	36.8	93	38.8	181	37.8
	1	151	63.2	147	61.2	298	62.2
$p = 0.71$	all	239	100.0	240	100.0	479	100.0
T1DP3Foodwater	0	68	28.4	73	30.7	141	29.6
	1	171	71.5	165	69.3	336	70.4
$p = 0.62$	all	239	100.0	238	100.0	477	100.0
T1DP4docs	0	37	15.6	38	16.0	75	15.8
	1	201	84.5	199	84.0	400	84.2
$p = 0.90$	all	238	100.0	237	100.0	475	100.0

T1DP5Securedwelling	0	70	29.5	68	28.4	138	29.0
	1	167	70.5	171	71.5	338	71.0
$p = 0.84$	all	237	100.0	239	100.0	476	100.0
T1DP6Raiseditems	0	113	47.3	104	43.5	217	45.4
	0.545073375262054	0	0.0	1	0.4	1	0.2
	1	126	52.7	134	56.1	260	54.4
$p = 0.46$	all	239	100.0	239	100.0	478	100.0
T1DP7Divertwater	0	105	43.9	107	44.8	212	44.4
	1	134	56.1	132	55.2	266	55.6
$p = 0.93$	all	239	100.0	239	100.0	478	100.0
T1DP8Removedobjects	0	106	44.5	108	45.2	214	44.9
	1	132	55.5	131	54.8	263	55.1
$p = 0.93$	all	238	100.0	239	100.0	477	100.0
T1DP9Famplan	0	146	61.9	129	54.4	275	58.1
	1	90	38.1	108	45.6	198	41.9
$p = 0.11$	all	236	100.0	237	100.0	473	100.0
T1DP10Evacplan	0	156	65.8	150	63.3	306	64.6
	1	81	34.2	87	36.7	168	35.4
$p = 0.63$	all	237	100.0	237	100.0	474	100.0
T1DP11Reconnectplan	0	161	68.8	156	65.5	317	67.2
	1	73	31.2	82	34.5	155	32.8
$p = 0.49$	all	234	100.0	238	100.0	472	100.0
T1DP12Talkchildren	0	135	56.7	126	52.7	261	54.7
	0.44468085106383	3	1.3	4	1.7	7	1.5
	1	100	42.0	109	45.6	209	43.8
$p = 0.69$	all	238	100.0	239	100.0	477	100.0
T1DP13Radiotvcomp	0	26	11.1	30	12.6	56	11.8
	1	209	88.9	208	87.4	417	88.2
$p = 0.67$	all	235	100.0	238	100.0	473	100.0
T1DP14Firstaid	0	178	75.7	168	70.3	346	73.0
	1	57	24.3	71	29.7	128	27.0
$p = 0.21$	all	235	100.0	239	100.0	474	100.0
T1DP15Cleanwater	0	56	23.5	49	20.8	105	22.1
	1	182	76.5	187	79.2	369	77.8
$p = 0.51$	all	238	100.0	236	100.0	474	100.0
T1DP16Disinfect	0	65	27.2	53	22.4	118	24.8
	1	174	72.8	184	77.6	358	75.2
$p = 0.24$	all	239	100.0	237	100.0	476	100.0
T1DP17Sanitation	0	61	25.6	60	25.0	121	25.3
	1	177	74.4	180	75.0	357	74.7
$p = 0.92$	all	238	100.0	240	100.0	478	100.0
T1DP20Safeplaceflood	0	134	57.8	129	55.1	263	56.4
	1	98	42.2	105	44.9	203	43.6
$p = 0.58$	all	232	100.0	234	100.0	466	100.0
T1DP21riskysafecommunity	0	230	96.2	228	95.0	458	95.6
	1	9	3.8	12	5.0	21	4.4
$p = 0.66$	all	239	100.0	240	100.0	479	100.0
T1DP22Helpfriends	0	126	52.7	117	49.4	243	51.0
	1	113	47.3	120	50.6	233	49.0
$p = 0.52$	all	239	100.0	237	100.0	476	100.0

Table 5: Whole dataset - Disaster preparation items at time 1 - descriptive statistics and Fisher's exact test p-values

```
tableNominal(vars = as.data.frame(T1_trauma_vars), group = T1_randomization[,1], print.pval = "fisher", fisher
```

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Variable	**Levels**	$\mathbf{n}_{\text{Control}}$	$\%_{\text{Control}}$	$\mathbf{n}_{\text{Intervention}}$	$\%_{\text{Intervention}}$	$\mathbf{n}_{\text{all}}$	$\%_{\text{all}}$
T1Trauma1EQ	0	3	1.3	6	2.5	9	1.9
	1	235	98.7	234	97.5	469	98.1
$p = 0.50$	all	238	100.0	240	100.0	478	100.0
T1Trauma2hurricane	0	89	37.4	82	34.2	171	35.8
	1	149	62.6	158	65.8	307	64.2
$p = 0.50$	all	238	100.0	240	100.0	478	100.0
T1Trauma3flood	0	81	34.0	80	33.5	161	33.8
	1	157	66.0	159	66.5	316	66.2
$p = 0.92$	all	238	100.0	239	100.0	477	100.0

T1Trauma4disease	0	93	39.1	95	39.6	188	39.3
	1	145	60.9	145	60.4	290	60.7
$p = 0.93$	all	238	100.0	240	100.0	478	100.0
T1Trauma5fire	0	190	79.8	185	77.1	375	78.5
	1	48	20.2	55	22.9	103	21.6
$p = 0.51$	all	238	100.0	240	100.0	478	100.0
T1Trauma6Housedamage	0	77	32.4	63	26.2	140	29.3
	1	161	67.7	177	73.8	338	70.7
$p = 0.16$	all	238	100.0	240	100.0	478	100.0
T1Trauma7Dismoved	0	101	42.4	100	42.2	201	42.3
	1	137	57.6	137	57.8	274	57.7
$p = 1.00$	all	238	100.0	237	100.0	475	100.0
T1Trauma8Disinjury	0	188	79.0	179	74.6	367	76.8
	1	50	21.0	61	25.4	111	23.2
$p = 0.28$	all	238	100.0	240	100.0	478	100.0
T1Trauma9Rubble	0	213	89.5	208	86.7	421	88.1
	1	25	10.5	32	13.3	57	11.9
$p = 0.40$	all	238	100.0	240	100.0	478	100.0
T1Trauma10Faminjury	0	123	51.7	110	45.8	233	48.7
	1	115	48.3	130	54.2	245	51.3
$p = 0.23$	all	238	100.0	240	100.0	478	100.0
T1Trauma11Famkilled	0	130	54.6	123	51.2	253	52.9
	1	108	45.4	117	48.8	225	47.1
$p = 0.47$	all	238	100.0	240	100.0	478	100.0
T1Trauma12Transaccid	0	187	78.9	169	70.4	356	74.6
	1	50	21.1	71	29.6	121	25.4
$p = 0.04$	all	237	100.0	240	100.0	477	100.0
T1Trauma13Otheraccid	0	211	89.4	208	86.7	419	88.0
	1	25	10.6	32	13.3	57	12.0
$p = 0.40$	all	236	100.0	240	100.0	476	100.0
T1Trauma14Physassault	0	180	76.0	174	72.5	354	74.2
	1	57	24.1	66	27.5	123	25.8
$p = 0.40$	all	237	100.0	240	100.0	477	100.0
T1Trauma15sexassault	0	222	93.3	218	90.8	440	92.0
	1	16	6.7	22	9.2	38	8.0
$p = 0.40$	all	238	100.0	240	100.0	478	100.0
T1Trauma16Combatpolitviol	0	222	93.3	217	90.4	439	91.8
	1	16	6.7	23	9.6	39	8.2
$p = 0.32$	all	238	100.0	240	100.0	478	100.0
T1Trauma17Kidnapping	0	234	98.3	237	98.8	471	98.5
	1	4	1.7	3	1.2	7	1.5
$p = 0.72$	all	238	100.0	240	100.0	478	100.0
T1Trauma18Lifethreateningillness	0	147	61.8	140	58.3	287	60.0
	1	91	38.2	100	41.7	191	40.0
$p = 0.46$	all	238	100.0	240	100.0	478	100.0
T1Trauma19Violdeathclose	0	183	76.9	169	70.4	352	73.6
	1	55	23.1	71	29.6	126	26.4
$p = 0.12$	all	238	100.0	240	100.0	478	100.0
T1Trauma20Violdeathother	0	208	87.8	205	85.4	413	86.6
	1	29	12.2	35	14.6	64	13.4
$p = 0.50$	all	237	100.0	240	100.0	477	100.0
T1Trauma21Harmdeathyoucaused	0	182	76.5	174	72.5	356	74.5
	1	56	23.5	66	27.5	122	25.5
$p = 0.35$	all	238	100.0	240	100.0	478	100.0

Table 6: Whole dataset - Trauma items at time 1 - descriptive statistics and Fisher's exact test p-values

```
tableNominal(vars = as.data.frame(T1_demographics_income), group = T1_randomization[,1], print.pval = "fisher"
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sat Apr 07 18:18:13 2018

Variable	**Levels**	$\mathbf{n}_{\text{Control}}$	$\%_{\text{Control}}$	$\mathbf{n}_{\text{Interven}}$
T1incomeopen		6	2.5	
	mw pap pale de sa	0	0.0	
	0	54	22.5	
	0mason ak vann dlo	0	0.0	
	100	4	1.7	

1000	22	9.2
1000 dola	0	0.0
1000 dola ht	2	0.8
1000 g	0	0.0
1000 gd	1	0.4
1000 gds	1	0.4
1000 goud	2	0.8
1000 us	0	0.0
10000	2	0.8
10000 gds	0	0.0
10000 goud	1	0.4
1000dollars	0	0.0
11000 gds	1	0.4
1200 dola ht	1	0.4
1200 g	1	0.4
1300 dola ht	1	0.4
150	0	0.0
1500	3	1.2
1500 dola ht	1	0.4
1500 goud	0	0.0
1500 goud ht	0	0.0
15000	3	1.2
15000 goud	1	0.4
1600	1	0.4
20	0	0.0
200	11	4.6
200 a 300 dola	0	0.0
2000	12	5.0
2000 dola	0	0.0
2000 dola ht	2	0.8
2000 g	0	0.0
2000 gde	0	0.0
200a 400dollars	1	0.4
2200 dola ht	1	0.4
250	0	0.0
2500	0	0.0
2500 a 5000	0	0.0
2500 dola ht	1	0.4
2500 g	2	0.8
2500 goud	0	0.0
2900	0	0.0
30 dola ht	0	0.0
300	4	1.7
300 g	0	0.0
3000	4	1.7
3000 a 5000	1	0.4
3000 dola ht	0	0.0
3000 g	2	0.8
3000 goud	2	0.8
3000 goud ht	0	0.0
3000a 5000	1	0.4
3000g	1	0.4
3500 g	1	0.4
4 a 5000	1	0.4
400	2	0.8
400 dola	1	0.4
400 g	1	0.4
4000	5	2.1
4000 dola ht	0	0.0
4000 goud	2	0.8
470 dola ht	1	0.4
50	1	0.4
50 dola ht	2	0.8
500	3	1.2
500 0 g	0	0.0
500 a 1000 dola	0	0.0
500 dola ht	1	0.4
5000	1	0.4
5000 dola	0	0.0
5000 g	0	0.0
5000 gdes	0	0.0
5000 goud	2	0.8
5000a 10000	0	0.0
5000a 10000 gdes	1	0.4
5000g	1	0.4
500a 10	0	0.0

5600	1	0.4
60	1	0.4
600	2	0.8
600 g	1	0.4
6000	2	0.8
700	0	0.0
7000	1	0.4
750 g	1	0.4
7500 goud	1	0.4
800	1	0.4
800 dola ht	1	0.4
8000	1	0.4
900	1	0.4
anyen m patap travay	0	0.0
anyen menm	0	0.0
bon li paka mezire se komes li ye chak jou wapndepanse	0	0.0
dollars 40 us	0	0.0
dollars 5000 ht	0	0.0
I dont know	0	0.0
kibo sa pagen afe menm	0	0.0
komes m fe pa gen revni vre	1	0.4
li pa gen vale nn em paka konnen tou map depanse e se ti komes li ye	0	0.0
lii pat bon	1	0.4
m pa diw	1	0.4
m pa janm kontwole vre	1	0.4
m pa k evalye	1	0.4
m pa k evalye l	0	0.0
m pa ka di anyen	0	0.0
m pa ka di w anyen	0	0.0
m pa kapab konte	0	0.0
m pa kja diw	1	0.4
m pagen yon kantite paske se ti komes map fe	1	0.4
m pagen yon kob fikse paske se yon lekonsa m ka koud yon moso twal	1	0.4
m pap ka reglesa paske se ti biznis m fe	1	0.4
m pap travay	0	0.0
m patap travay	1	0.4
m toujou gen kob antre nan men mwen men pa konte e regle li pou m konnen konbyen li egal	0	0.0
mfe yon ti monnen	0	0.0
mpa gen lajan	1	0.4
mpa gen revni	1	0.4
mpa gen revni fix	0	0.0
mpa genyen	1	0.4
mpa ka di paskem fe plis defisi	1	0.4
mpap fe lajan	1	0.4
mpap travay	3	1.2
mw pa di anyen paske mw pa ka kontwole	0	0.0
mw pa kapab	1	0.4
mwen ka kontrole	0	0.0
mwen pa fe kalkil sa	0	0.0
mwen pa gen yon revni kalkilab	0	0.0
mwen pa ka konte paske li pat ekonomize	0	0.0
mwen pa ka kontrole	0	0.0
mwen pa kalkile sa	1	0.4
mwen pa konnen	0	0.0
mwen pa kontrole	8	3.3
mwen pa kontrole sa	1	0.4
Mwen pa kontrole sa	1	0.4
mwen pa reflechi konbyen	1	0.4
mwen pa sonje	1	0.4
mwen paka kontrole	0	0.0
mwen pap k di w paske se ban mwen yap ban mwen	0	0.0
mwen pap k kontwole yo	0	0.0
mwen pap ka di w anyen	0	0.0
mwen pap ka reponn kesyon sa	0	0.0
mwen pat kontrole	0	0.0
mwen tap tou fou. 250 goud depanse par jou	1	0.4
non	1	0.4
non m pa konnen	0	0.0
nou pa gen anyen	1	0.4
nou pa make sa	0	0.0
o	1	0.4
pa ampil	1	0.4
pa bien	0	0.0
pa gen anyen antre	0	0.0
pa gen lajan menm	0	0.0
pa gen mwayen	0	0.0

	pa gen repons	2	0.8
	pa gen revni	1	0.4
	petet yon 1000 goud yo	1	0.4
	sa mw pa ka pale w de sa paske se mari m ki ap travay	0	0.0
	sa pa posib	1	0.4
	san repons	1	0.4
	se biznis m pa kontwole paske m depanse achte m kalkile	1	0.4
	se komes pagen kob vre 500 goud	1	0.4
	se malere mwen ye	1	0.4
	se pa mwen ki ap fe	1	0.4
	tout bagay bloke pa gen lajan	0	0.0
$p = 0.63$	all	240	100.2
T1incomesourcesopen		10	4.2
	degaje nou kou nou konnen	0	0.0
	kom<e8>s	0	0.0
	nan travay la t<e8>	1	0.4
	okenn sous	1	0.4
	vann siret	1	0.4
	0	14	5.8
	600	1	0.4
	a sam jwenn m fe	0	0.0
	aa nan komes mwen wi	0	0.0
	ajan sekirite	0	0.0
	akenn resous	1	0.4
	anseye karate	0	0.0
	anyen	4	1.7
	anyen menm	2	0.8
	anyen serye	0	0.0
	architect	0	0.0
	Bagay mwen ban'n	1	0.4
	basen range aparey chage telephone	0	0.0
	baw ti swen sante	0	0.0
	bay swen sante	1	0.4
	bisnis mwen ak madanm mwen	1	0.4
	biznis	3	1.2
	biznis mwen	1	0.4
	Bondye	0	0.0
	bondye voye kek zanmi	0	0.0
	bos tay<e8>	1	0.4
	boutik	1	0.4
	boutik lan	1	0.4
	boutik mwen	0	0.0
	brase map brase	0	0.0
	brik a brak	0	0.0
	chabon an map vann	0	0.0
	cuisine	0	0.0
	diapora, job	0	0.0
	diaspira	0	0.0
	diaspora	1	0.4
	djob	1	0.4
	dlo m konnen vann	0	0.0
	dlo mwen ap vann	0	0.0
	dyaspora	4	1.7
	dyob defwa,oubyen fanmim	1	0.4
	dyob mason	0	0.0
	ebenis	0	0.0
	ed fanmi	0	0.0
	ed fanmi an	0	0.0
	ede pep	1	0.4
	elektrisite	0	0.0
	enseyan	0	0.0
	eskont	1	0.4
	etidyan	0	0.0
	fanmi	2	0.8
	fanmi a letranje	1	0.4
	fanmi ak zanmi	0	0.0
	fanmi ki konn banm iu byen lem fonw ti job	0	0.0
	fanmi kkonn voye pou mwen	0	0.0
	fanmi komes la epi zanmi tou	1	0.4
	fanmi lot bo dlo	0	0.0
	fanmi lotbo	3	1.2
	fanmi m ki ban mwen l	1	0.4
	fanmi mwen	2	0.8
	fanmim	4	1.7
	fanmim ak lem fonw djob	1	0.4

fanmim bon pwochen	1	0.4
fanmim ki korem	1	0.4
fanmim ki se se mwen	0	0.0
fanmim papa pitit	1	0.4
fanmim papa pitit mwen	1	0.4
fanmim tet mwen tou	0	0.0
fanmim zanmi	0	0.0
fanmiw	1	0.4
fanmiw zanmi kek job tou	1	0.4
fanmiy	0	0.0
fe mwen pezepeze	1	0.4
fe ti djob	0	0.0
fe ti komes mwen	0	0.0
fqnmim fe ti komes devan pot la	0	0.0
job	5	2.1
Job	0	0.0
job beton	0	0.0
journaliste	0	0.0
kado	3	1.2
kob kay	0	0.0
kob yon moun	0	0.0
kom<e8>s	1	0.4
komes	37	15.4
Komes	0	0.0
komes ak moun kap travay	1	0.4
komes bwason	1	0.4
komes fanmi an	1	0.4
komes kann	1	0.4
komes mwen pitit mwen sil li ta genyen	1	0.4
komes nhanmchanm	1	0.4
komes zanmi	0	0.0
komesant	1	0.4
kondi machine	1	0.4
kouti	1	0.4
kouti travay marim	1	0.4
le mesye al fe blok	0	0.0
Le mwen jwenn kamyon se chofe mwen ye	0	0.0
lem jwenn job	1	0.4
lesiv, zaboka	0	0.0
m Bondye	0	0.0
m pa diw	1	0.4
m pa genyen	1	0.4
m pa ka diw	3	1.2
m pa ka evalye	0	0.0
m pa konnen	0	0.0
m pap fe anyen se pitit mwen ki ban mwen	0	0.0
m pap travay	0	0.0
m pla diw anyen	1	0.4
mache	3	1.2
majan sante polyvalent	1	0.4
manmanm	1	0.4
manmim	1	0.4
map fe lekol	1	0.4
mari mwen	0	0.0
marim	6	2.5
marim ap travay	0	0.0
marim fanmim	0	0.0
mariw	0	0.0
mariw kap travay	1	0.4
mason	3	1.2
Mason	0	0.0
mason'sam jwenn	1	0.4
mason ak fouye tou pou moun yo	1	0.4
mason, chapant,feray<e8> , poze seramik	1	0.4
mason, travay lat<e8>	0	0.0
matant mwen	1	0.4
mayi boukannen	1	0.4
mekanik	0	0.0
mekanisyen	1	0.4
mfe yon yti aktivite biznis	0	0.0
minewoch	0	0.0
mmekanik	1	0.4
momes	0	0.0
moun ki longe lamen banmwen	1	0.4
mpa fe kob	0	0.0
mpa fe kob se yon ti biznis ki pap menm mache	1	0.4

mpa gen rantre	0	0.0
mpa gen revmi	1	0.4
mpa gen revni	0	0.0
mpa gen revni se le yo relem vin fe yon ti job mal fe	1	0.4
mpa genyen	1	0.4
mpa ka bay yon vale fix	0	0.0
mpaa gen revni	1	0.4
mpap fe anyen se Bondye kap ese mwen	1	0.4
mpap travay	1	0.4
mw pap fe anyen	1	0.4
mwen fe komens	0	0.0
mwen koud	1	0.4
mwen pa konnen	0	0.0
mwen pap fe anyen	0	0.0
mwen vann ragou ak bega	1	0.4
nan bras komes	0	0.0
nan fe blok	0	0.0
nan mason ak madanm kap fe ti manje	0	0.0
nan men nevem	0	0.0
nan ti travay madanm mwen	1	0.4
nan tout sa m jwenn	0	0.0
no	0	0.0
nou fe ti travay'nou gen shop.	0	0.0
okenb kote	1	0.4
okenn kote	7	2.9
okenn sous	0	0.0
pa genyen	1	0.4
pa vreman ge kob	0	0.0
pan gen revni	1	0.4
papa mw se ajan nan semanah	0	0.0
papa pitit mwen an kap travay	0	0.0
papa pititnmwen an	1	0.4
papa yo ki okipe yo	0	0.0
papam	1	0.4
Papam	1	0.4
papam manmanm	1	0.4
penyen ti tet ti komes	0	0.0
pitit mwen	0	0.0
pitit mwen fanmim	1	0.4
prete	0	0.0
proche	0	0.0
pwofese	1	0.4
sa mwen jwenn	1	0.4
san repons	1	0.4
sanble nan fe komes	1	0.4
sim jwenn yon ti dyob	1	0.4
sol	5	2.1
sol,ti komes	1	0.4
tailleur	1	0.4
tant mwen al vann	1	0.4
taxi moto	0	0.0
ti aktivte lem jwenn	1	0.4
ti degaje	0	0.0
ti dyob	1	0.4
ti dyob mwen	1	0.4
ti job	1	0.4
ti job , ti komes	0	0.0
ti job kek fwa ou pitit mwen	0	0.0
ti komes	5	2.1
ti komes chabon	1	0.4
ti komes fritay	0	0.0
ti komes kafe a	1	0.4
ti komes madanm mwen	1	0.4
ti komes pou fe ti kob men se pa lajam vre	1	0.4
ti komnes	1	0.4
ti roulman	0	0.0
ti travay	0	0.0
ti travay lem jwenn	0	0.0
ti travay mw fe	0	0.0
travay	14	5.8
travay ak fe komes	1	0.4
travay kom pwofese	1	0.4
travay macon	1	0.4
travay mason	1	0.4
travay mwen	1	0.4
travay,mason	1	0.4

	travaye	1	0.4
	ttavay	0	0.0
	van'n	1	0.4
	vann bete	0	0.0
	vann kafe pen a manba	0	0.0
	vann pistache	0	0.0
	vi nou se sou kont bondye li ye	0	0.0
	yon kado	1	0.4
	zanmi	0	0.0
	zanmi kite fe mwen kado bagay sa	0	0.0
	zanmi ou fanmi defwam fe dyob pouse bouret ak machandiz pou moun	0	0.0
	zanmim	0	0.0
	zanmim konn banm demi jounen travay	0	0.0
$p = 0.06$	all	240	100.3

Table 7: Whole dataset - Demographics at time 1 - descriptive statistics and Fisher's exact test p-values

Now again the same variables analyzed only in subjects that have data at time 1 and 2, and if assigned to, participated in the training program.

```
T1_intervention <- filtered %>% filter(timePoint_factor == "1") %>% select(interventiongroup) %>% as.data.fram

T1_chron_stress_vars <- filtered %>% filter(timePoint_factor == "1") %>% select(starts_with('T1Stress'))

T1_trauma_vars <- filtered %>% filter(timePoint_factor == "1") %>%  select(starts_with('T1Trauma'), -contains(

T1_scales <- filtered %>% filter(timePoint_factor == "1") %>% select(PTSD_T, Depmean_T, Anxmean_T, Funcmean_T,
T1_scales %<>% rename(Depsum_T = Depmean_T, PTSD_sum_T = PTSD_T, Anxsum_T = Anxmean_T)
T1_scales %<>% mutate(Depsum_T = (Depsum_T-1) * 13, PTSD_sum_T = (PTSD_sum_T-1) * 34, Anxsum_T = Anxsum_T * 21

T1_demographics <- filtered %>% filter(timePoint_factor == "1") %>%  select(gender, T1Married_A,T1howlonglivin

T1_demographics_nomimal <- T1_demographics %>% select_if(function(x) is.numeric(x) | is.factor(x)) %>% select(
T1_demographics_continuous <- filtered %>% filter(timePoint_factor == "1") %>% select(T1welloff, T1Age, T1educ

T1_demographics_income <- filtered %>% filter(timePoint_factor == "1") %>% select(T1incomeopen, T1incomesource

T1_DP_vars <- filtered %>% filter(timePoint_factor == "1") %>% select(T1DP1Supplykit, T1DP2Meds,T1DP3Foodwater

T2_DP_vars <- filtered %>% filter(timePoint_factor == "2") %>% select(T2DP1Supplykit, T2DP2Meds, T2DP3Foodwate

T3_DP_vars <- filtered %>% filter(timePoint_factor == "3") %>% select(T3DP1Supplykit, T3DP2Meds, T3DP3Foodwate

tableNominal(vars = as.data.frame(T1_demographics_nomimal), group = T1_intervention[,1], print.pval = "fisher"
```

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Variable	**Levels**	$\mathbf{n}_{\text{Control}}$	$\%_{\text{Control}}$	$\mathbf{n}_{\text{Intervention}}$	$\%_{\text{Intervention}}$	$\mathbf{n}_{\text{all}}$	$\%_{\text{all}}$
gender	Female	122	50.8	117	48.8	239	49.8
	Male	118	49.2	123	51.2	241	50.2
$p = 0.72$	all	240	100.0	240	100.0	480	100.0
T1Married_A	0	171	72.8	185	78.1	356	75.4
	1	64	27.2	52	21.9	116	24.6
$p = 0.20$	all	235	100.0	237	100.0	472	100.0
T1IDPcamp	0	180	76.0	163	68.5	343	72.2
	1	57	24.1	75	31.5	132	27.8
$p = 0.08$	all	237	100.0	238	100.0	475	100.0
T1IDPcampwhereopen		185	77.1	166	69.2	351	73.1
	5eme avni	1	0.4	0	0.0	1	0.2
	adoken delma 33	1	0.4	0	0.0	1	0.2
	anncho/bolos/nan bannann	0	0.0	1	0.4	1	0.2
	ba tisous	0	0.0	1	0.4	1	0.2
	bo asyeri	1	0.4	0	0.0	1	0.2
	bo sakala	1	0.4	0	0.0	1	0.2
	bon berger	1	0.4	0	0.0	1	0.2
	bon repo	1	0.4	0	0.0	1	0.2

boulos simon	0	0.0	1	0.4	1	0.2
canaan	1	0.4	1	0.4	2	0.4
Canaan	0	0.0	3	1.2	3	0.6
canara	0	0.0	1	0.4	1	0.2
canaran	2	0.8	5	2.1	7	1.5
champ de mars	1	0.4	0	0.0	1	0.2
Chanmas	0	0.0	1	0.4	1	0.2
channmas	1	0.4	0	0.0	1	0.2
cite soley	1	0.4	0	0.0	1	0.2
coseha, Delmas 31	0	0.0	1	0.4	1	0.2
dadadou	1	0.4	0	0.0	1	0.2
damien	0	0.0	1	0.4	1	0.2
delmas	2	0.8	0	0.0	2	0.4
delmas 2	0	0.0	1	0.4	1	0.2
delmas 42	1	0.4	0	0.0	1	0.2
delmas b1	1	0.4	0	0.0	1	0.2
delmas mayigate8	1	0.4	0	0.0	1	0.2
delmas40	0	0.0	1	0.4	1	0.2
gaston magon	1	0.4	3	1.2	4	0.8
gastron magron	0	0.0	1	0.4	1	0.2
jakmel	1	0.4	0	0.0	1	0.2
kafou	2	0.8	1	0.4	3	0.6
kafou divye	1	0.4	0	0.0	1	0.2
kafou la menm	0	0.0	1	0.4	1	0.2
kafou tou pre	1	0.4	0	0.0	1	0.2
kan gaston mago	0	0.0	1	0.4	1	0.2
kan gaston magon	0	0.0	1	0.4	1	0.2
kan geralbatay kazeli	0	0.0	1	0.4	1	0.2
kan gospel	1	0.4	1	0.4	2	0.4
kan Gospel	1	0.4	0	0.0	1	0.2
kan kamep	1	0.4	0	0.0	1	0.2
kan kamep la	0	0.0	1	0.4	1	0.2
kan labank	1	0.4	1	0.4	2	0.4
kan lochamo	0	0.0	1	0.4	1	0.2
kan peliko	0	0.0	1	0.4	1	0.2
kan reji	0	0.0	1	0.4	1	0.2
kan rivye fwad	1	0.4	0	0.0	1	0.2
kan sou pis	0	0.0	1	0.4	1	0.2
kan st louis	1	0.4	0	0.0	1	0.2
kanaan	2	0.8	5	2.1	7	1.5
kanann	1	0.4	0	0.0	1	0.2
kannaan	0	0.0	1	0.4	1	0.2
kannan	0	0.0	1	0.4	1	0.2
karade	0	0.0	3	1.2	3	0.6
karede	0	0.0	1	0.4	1	0.2
kwadebouke	0	0.0	1	0.4	1	0.2
kyos pele simon	1	0.4	0	0.0	1	0.2
lakou legliz	1	0.4	0	0.0	1	0.2
lakou promobank	1	0.4	0	0.0	1	0.2
lamaten54	0	0.0	1	0.4	1	0.2
lapl<e8>n	0	0.0	1	0.4	1	0.2
laplen	0	0.0	1	0.4	1	0.2
letri zon damyen	0	0.0	1	0.4	1	0.2
lilavwa 35	1	0.4	0	0.0	1	0.2
maigate 1	0	0.0	1	0.4	1	0.2
mais gate	0	0.0	1	0.4	1	0.2
mariani	0	0.0	1	0.4	1	0.2
mariani 1	2	0.8	0	0.0	2	0.4
mariani 1,paste Eli	0	0.0	1	0.4	1	0.2
mayigate 2 kay maga	1	0.4	0	0.0	1	0.2
michiko	0	0.0	2	0.8	2	0.4
oto meka	0	0.0	1	0.4	1	0.2
pak jan mari vensan	0	0.0	1	0.4	1	0.2
pak jan mari vincent	0	0.0	1	0.4	1	0.2
paloma	0	0.0	1	0.4	1	0.2
pax vila	1	0.4	0	0.0	1	0.2
pele,site milite	0	0.0	1	0.4	1	0.2
pis	0	0.0	1	0.4	1	0.2
place fyete site soley	1	0.4	0	0.0	1	0.2
plas boyer	0	0.0	1	0.4	1	0.2
plas fierte	0	0.0	3	1.2	3	0.6
plas fyete	1	0.4	2	0.8	3	0.6
plas fyete site soley	0	0.0	1	0.4	1	0.2
plas klesin	1	0.4	0	0.0	1	0.2
regi	1	0.4	0	0.0	1	0.2
reji	1	0.4	0	0.0	1	0.2

	riji nan boston	1	0.4	0	0.0	1	0.2
	sakala	0	0.0	1	0.4	1	0.2
	site	1	0.4	0	0.0	1	0.2
	site milit<e8>	1	0.4	1	0.4	2	0.4
	soley kan fyete	1	0.4	0	0.0	1	0.2
	sou adoken	1	0.4	0	0.0	1	0.2
	sou pis avyasyon	0	0.0	1	0.4	1	0.2
	tabarre	1	0.4	0	0.0	1	0.2
	teren peliko	1	0.4	0	0.0	1	0.2
	teren platali	0	0.0	1	0.4	1	0.2
	ti plas kazo	0	0.0	1	0.4	1	0.2
	vilaj	1	0.4	0	0.0	1	0.2
	vilaj gaston	1	0.4	0	0.0	1	0.2
$p = 0.11$	all	240	100.1	240	100.2	480	100.1
T1Aemployed	0	224	94.5	224	94.1	448	94.3
	1	13	5.5	14	5.9	27	5.7
$p = 1.00$	all	237	100.0	238	100.0	475	100.0
T1school	0	149	63.1	156	66.1	305	64.6
	1	87	36.9	80	33.9	167	35.4
$p = 0.56$	all	236	100.0	236	100.0	472	100.0
T1religion	Advantist	2	0.9	9	3.9	11	2.4
	All	1	0.4	0	0.0	1	0.2
	Anything	2	0.9	2	0.9	4	0.9
	Baptist	12	5.2	15	6.5	27	5.8
	Catholic	79	34.0	69	29.7	148	31.9
	Christian	9	3.9	9	3.9	18	3.9
	Church of God	0	0.0	1	0.4	1	0.2
	Gospel	1	0.4	1	0.4	2	0.4
	Jehova's Witness	0	0.0	1	0.4	1	0.2
	Methodist	0	0.0	1	0.4	1	0.2
	Mormon	1	0.4	0	0.0	1	0.2
	Muslim	0	0.0	1	0.4	1	0.2
	None	6	2.6	17	7.3	23	5.0
	Other	2	0.9	0	0.0	2	0.4
	Pentecostal	12	5.2	16	6.9	28	6.0
	Protestant	100	43.1	86	37.1	186	40.1
	Rastafarian	0	0.0	1	0.4	1	0.2
	The Street	1	0.4	0	0.0	1	0.2
	Voodoo	4	1.7	3	1.3	7	1.5
$p = 0.12$	all	232	100.0	232	100.0	464	100.0

Table 8: Reduced dataset - Demographics at time 1 - descriptive statistics and Fisher's exact test p-values

```
tableContinuous(vars = as.data.frame(T1_demographics_continuous),  group = T1_intervention[,1], stats = c('n',
```

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Variable	**Levels**	**n**	**Min**	$\mathbf{q_1}$	$\widetilde{\mathbf{x}}$	$\bar{\mathbf{x}}$	$\mathbf{q_3}$	**Max**	**s**
T1welloff	Control	236	1	3.00	3.00	2.85	3	5	0.73
	Intervention	238	1	3.00	3.00	2.93	3	5	0.69
$p = 0.21$	all	474	1	3.00	3.00	2.89	3	5	0.71
T1Age	Control	234	18	27.00	35.00	38.03	48	78	14.27
	Intervention	236	18	26.00	34.00	35.90	43	75	12.73
$p = 0.09$	all	470	18	26.00	34.00	36.96	46	78	13.55
T1educationyears	Control	228	0	4.00	6.50	7.19	11	16	4.38
	Intervention	227	0	4.00	7.00	7.34	11	20	4.71
$p = 0.73$	all	455	0	4.00	7.00	7.26	11	20	4.54
T1childrenopen	Control	233	0	1.00	2.00	2.88	4	13	2.51
	Intervention	237	0	0.00	2.00	2.38	3	14	2.48
$p = 0.03$	all	470	0	0.25	2.00	2.63	4	14	2.51
T1childrenliveopen	Control	226	0	0.00	2.00	2.00	3	8	1.92
	Intervention	225	0	0.00	1.00	1.69	3	9	1.84
$p = 0.08$	all	451	0	0.00	1.00	1.85	3	9	1.88
T1childrenunder10open	Control	221	0	0.00	1.00	0.86	1	7	1.15
	Intervention	217	0	0.00	1.00	1.00	2	8	1.36
$p = 0.23$	all	438	0	0.00	1.00	0.93	1	8	1.26

Table 9: Reduced dataset - Demographics at time 1 - descriptive statistics and t-test p-values

```
tableContinuous(vars = as.data.frame(T1_scales), group = T1_intervention[,1], stats = c('n', 'min', 'q1', 'med
```

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Variable	Levels	n	Min	q_1	$\widetilde{x}$	$\bar{x}$	q_3	Max	s
PTSD_sum_T	Control	239	0.00	6.00	23.00	32.55	55.50	123.00	31.17
	Intervention	240	0.00	9.00	26.50	35.24	56.25	120.00	32.45
$p = 0.36$	all	479	0.00	6.00	24.00	33.89	56.00	123.00	31.81
Depsum_T	Control	237	0.00	4.00	10.00	11.86	18.00	39.00	9.08
	Intervention	240	0.00	4.00	10.00	12.36	20.00	39.00	9.96
$p = 0.57$	all	477	0.00	4.00	10.00	12.11	19.00	39.00	9.53
Anxsum_T	Control	237	0.00	4.00	12.00	14.91	23.00	63.00	13.12
	Intervention	240	0.00	4.00	11.00	16.18	25.26	60.00	14.51
$p = 0.31$	all	477	0.00	4.00	12.00	15.55	24.00	63.00	13.83
Funcmean_T	Control	232	1.00	1.50	2.29	2.47	3.25	5.00	1.19
	Intervention	236	1.00	1.50	2.23	2.46	3.29	5.00	1.18
$p = 0.93$	all	468	1.00	1.50	2.25	2.46	3.25	5.00	1.18
Cope_T	Control	237	1.59	2.59	3.06	3.06	3.47	4.53	0.70
	Intervention	239	1.53	2.59	3.12	3.07	3.47	4.53	0.69
$p = 0.83$	all	476	1.53	2.59	3.12	3.06	3.47	4.53	0.70
ChronStress_T1	Control	193	0.00	6.00	11.00	10.50	15.00	24.00	5.64
	Intervention	202	0.00	5.00	10.00	10.06	15.00	24.00	6.00
$p = 0.46$	all	395	0.00	5.00	10.00	10.28	15.00	24.00	5.82
TraumaNatural_T1	Control	238	1.00	4.00	5.00	5.59	7.00	11.00	2.28
	Intervention	236	0.00	4.00	6.00	5.85	7.00	11.00	2.19
$p = 0.20$	all	474	0.00	4.00	6.00	5.72	7.00	11.00	2.24
TraumaOther_T1	Control	234	0.00	0.00	1.00	1.68	3.00	8.00	1.86
	Intervention	240	0.00	0.00	1.00	2.04	3.00	9.00	2.12
$p = 0.05$	all	474	0.00	0.00	1.00	1.86	3.00	9.00	2.00
DP_cleaned_T	Control	199	0.00	6.00	12.00	10.99	16.00	19.00	5.63
	Intervention	206	0.00	7.00	13.00	11.26	16.00	20.00	5.57
$p = 0.63$	all	405	0.00	6.00	12.00	11.13	16.00	20.00	5.59
SocCohmean_T	Control	234	1.00	2.00	2.80	2.66	3.00	5.00	0.98
	Intervention	237	1.00	2.00	2.60	2.66	3.20	5.00	0.97
$p = 1.00$	all	471	1.00	2.00	2.60	2.66	3.20	5.00	0.97

Table 10: Reduced dataset - Scales at time 1 - descriptive statistics and t-test p-values

```
tableContinuous(vars = as.data.frame(T1_chron_stress_vars), group = T1_intervention[,1], stats = c('n', 'min',
```

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Variable	Levels	n	Min	q_1	$\widetilde{x}$	$\bar{x}$	q_3	Max	s
T1Stress1	Control	238	0	1	2.00	1.36	2	2	0.78
	Intervention	240	0	1	2.00	1.35	2	2	0.79
$p = 0.97$	all	478	0	1	2.00	1.36	2	2	0.78
T1Stress2	Control	238	0	0	1.00	1.14	2	2	0.84
	Intervention	240	0	0	1.00	1.11	2	2	0.88
$p = 0.74$	all	478	0	0	1.00	1.13	2	2	0.86
T1Stress3	Control	237	0	0	1.00	0.95	2	2	0.86
	Intervention	240	0	0	1.00	0.88	2	2	0.89
$p = 0.36$	all	477	0	0	1.00	0.91	2	2	0.88
T1Stress5	Control	238	0	0	0.00	0.37	0	2	0.70
	Intervention	239	0	0	0.00	0.32	0	2	0.67
$p = 0.45$	all	477	0	0	0.00	0.34	0	2	0.68
T1Stress6	Control	234	0	0	0.00	0.24	0	2	0.56
	Intervention	240	0	0	0.00	0.17	0	2	0.50
$p = 0.14$	all	474	0	0	0.00	0.20	0	2	0.53
T1Stress7	Control	234	0	0	1.00	0.91	2	2	0.93
	Intervention	239	0	0	1.00	0.90	2	2	0.93
$p = 0.98$	all	473	0	0	1.00	0.90	2	2	0.93
T1Stress8	Control	237	0	0	1.00	0.89	2	2	0.90
	Intervention	240	0	0	1.00	0.92	2	2	0.91
$p = 0.68$	all	477	0	0	1.00	0.90	2	2	0.90
T1Stress9	Control	235	0	1	2.00	1.49	2	2	0.81
	Intervention	240	0	1	2.00	1.50	2	2	0.80
$p = 0.80$	all	475	0	1	2.00	1.49	2	2	0.81
T1Stress10	Control	235	0	0	0.00	0.59	1	2	0.82
	Intervention	238	0	0	0.00	0.55	1	2	0.83
$p = 0.67$	all	473	0	0	0.00	0.57	1	2	0.83

T1Stress11	Control	234	0	0	0.00	0.44	1	2	0.75
	Intervention	236	0	0	0.00	0.50	1	2	0.81
$p = 0.48$	all	470	0	0	0.00	0.47	1	2	0.78
T1Stress12	Control	238	0	0	1.50	1.19	2	2	0.88
	Intervention	240	0	0	2.00	1.25	2	2	0.87
$p = 0.45$	all	478	0	0	2.00	1.22	2	2	0.88
T1Stress4	Control	207	0	0	1.00	0.79	2	2	0.85
	Intervention	209	0	0	0.00	0.80	2	2	0.88
$p = 0.89$	all	416	0	0	1.00	0.79	2	2	0.86

Table 11: Reduced dataset - Chronic stress items at time 1 - descriptive statistics and t-test p-values

```
tableNominal(vars = as.data.frame(T1_DP_vars), group = T1_intervention[,1], print.pval = "fisher", fisher.B =
```

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Variable	**Levels**	$\mathbf{n}_{\text{Control}}$	$\%_{\text{Control}}$	$\mathbf{n}_{\text{Intervention}}$	$\%_{\text{Intervention}}$	$\mathbf{n}_{\text{all}}$	$\%_{\text{all}}$
T1DP1Supplykit	0	82	34.2	104	43.3	186	38.8
	1	158	65.8	136	56.7	294	61.2
$p = 0.05$	all	240	100.0	240	100.0	480	100.0
T1DP2Meds	0	88	36.8	93	38.8	181	37.8
	1	151	63.2	147	61.2	298	62.2
$p = 0.71$	all	239	100.0	240	100.0	479	100.0
T1DP3Foodwater	0	68	28.4	73	30.7	141	29.6
	1	171	71.5	165	69.3	336	70.4
$p = 0.62$	all	239	100.0	238	100.0	477	100.0
T1DP4docs	0	37	15.6	38	16.0	75	15.8
	1	201	84.5	199	84.0	400	84.2
$p = 0.90$	all	238	100.0	237	100.0	475	100.0
T1DP5Securedwelling	0	70	29.5	68	28.4	138	29.0
	1	167	70.5	171	71.5	338	71.0
$p = 0.84$	all	237	100.0	239	100.0	476	100.0
T1DP6Raiseditems	0	113	47.3	104	43.5	217	45.4
	0.545073375262054	0	0.0	1	0.4	1	0.2
	1	126	52.7	134	56.1	260	54.4
$p = 0.46$	all	239	100.0	239	100.0	478	100.0
T1DP7Divertwater	0	105	43.9	107	44.8	212	44.4
	1	134	56.1	132	55.2	266	55.6
$p = 0.93$	all	239	100.0	239	100.0	478	100.0
T1DP8Removedobjects	0	106	44.5	108	45.2	214	44.9
	1	132	55.5	131	54.8	263	55.1
$p = 0.93$	all	238	100.0	239	100.0	477	100.0
T1DP9Famplan	0	146	61.9	129	54.4	275	58.1
	1	90	38.1	108	45.6	198	41.9
$p = 0.11$	all	236	100.0	237	100.0	473	100.0
T1DP10Evacplan	0	156	65.8	150	63.3	306	64.6
	1	81	34.2	87	36.7	168	35.4
$p = 0.63$	all	237	100.0	237	100.0	474	100.0
T1DP11Reconnectplan	0	161	68.8	156	65.5	317	67.2
	1	73	31.2	82	34.5	155	32.8
$p = 0.49$	all	234	100.0	238	100.0	472	100.0
T1DP12Talkchildren	0	135	56.7	126	52.7	261	54.7
	0.44468085106383	3	1.3	4	1.7	7	1.5
	1	100	42.0	109	45.6	209	43.8
$p = 0.69$	all	238	100.0	239	100.0	477	100.0
T1DP13Radiotvcomp	0	26	11.1	30	12.6	56	11.8
	1	209	88.9	208	87.4	417	88.2
$p = 0.67$	all	235	100.0	238	100.0	473	100.0
T1DP14Firstaid	0	178	75.7	168	70.3	346	73.0
	1	57	24.3	71	29.7	128	27.0
$p = 0.21$	all	235	100.0	239	100.0	474	100.0
T1DP15Cleanwater	0	56	23.5	49	20.8	105	22.1
	1	182	76.5	187	79.2	369	77.8
$p = 0.51$	all	238	100.0	236	100.0	474	100.0
T1DP16Disinfect	0	65	27.2	53	22.4	118	24.8
	1	174	72.8	184	77.6	358	75.2
$p = 0.24$	all	239	100.0	237	100.0	476	100.0

T1DP17Sanitation	0	61	25.6	60	25.0	121	25.3
	1	177	74.4	180	75.0	357	74.7
$p = 0.92$	all	238	100.0	240	100.0	478	100.0
T1DP20Safeplaceflood	0	134	57.8	129	55.1	263	56.4
	1	98	42.2	105	44.9	203	43.6
$p = 0.58$	all	232	100.0	234	100.0	466	100.0
T1DP21riskysafecommunity	0	230	96.2	228	95.0	458	95.6
	1	9	3.8	12	5.0	21	4.4
$p = 0.66$	all	239	100.0	240	100.0	479	100.0
T1DP22Helpfriends	0	126	52.7	117	49.4	243	51.0
	1	113	47.3	120	50.6	233	49.0
$p = 0.52$	all	239	100.0	237	100.0	476	100.0

Table 12: Reduced dataset - Disaster preparation items at time 1 - descriptive statistics and Fisher's exact test p-values

```
tableNominal(vars = as.data.frame(T1_trauma_vars), group = T1_intervention[,1], print.pval = "fisher", fisher.
```

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Variable	**Levels**	$\mathbf{n}_{\text{Control}}$	$\%_{\text{Control}}$	$\mathbf{n}_{\text{Intervention}}$	$\%_{\text{Intervention}}$	$\mathbf{n}_{\text{all}}$	$\%_{\text{all}}$
T1Trauma1EQ	0	3	1.3	6	2.5	9	1.9
	1	235	98.7	234	97.5	469	98.1
$p = 0.50$	all	238	100.0	240	100.0	478	100.0
T1Trauma2hurricane	0	89	37.4	82	34.2	171	35.8
	1	149	62.6	158	65.8	307	64.2
$p = 0.50$	all	238	100.0	240	100.0	478	100.0
T1Trauma3flood	0	81	34.0	80	33.5	161	33.8
	1	157	66.0	159	66.5	316	66.2
$p = 0.92$	all	238	100.0	239	100.0	477	100.0
T1Trauma4disease	0	93	39.1	95	39.6	188	39.3
	1	145	60.9	145	60.4	290	60.7
$p = 0.93$	all	238	100.0	240	100.0	478	100.0
T1Trauma5fire	0	190	79.8	185	77.1	375	78.5
	1	48	20.2	55	22.9	103	21.6
$p = 0.51$	all	238	100.0	240	100.0	478	100.0
T1Trauma6Housedamage	0	77	32.4	63	26.2	140	29.3
	1	161	67.7	177	73.8	338	70.7
$p = 0.16$	all	238	100.0	240	100.0	478	100.0
T1Trauma7Dismoved	0	101	42.4	100	42.2	201	42.3
	1	137	57.6	137	57.8	274	57.7
$p = 1.00$	all	238	100.0	237	100.0	475	100.0
T1Trauma8Disinjury	0	188	79.0	179	74.6	367	76.8
	1	50	21.0	61	25.4	111	23.2
$p = 0.28$	all	238	100.0	240	100.0	478	100.0
T1Trauma9Rubble	0	213	89.5	208	86.7	421	88.1
	1	25	10.5	32	13.3	57	11.9
$p = 0.40$	all	238	100.0	240	100.0	478	100.0
T1Trauma10Faminjury	0	123	51.7	110	45.8	233	48.7
	1	115	48.3	130	54.2	245	51.3
$p = 0.23$	all	238	100.0	240	100.0	478	100.0
T1Trauma11Famkilled	0	130	54.6	123	51.2	253	52.9
	1	108	45.4	117	48.8	225	47.1
$p = 0.47$	all	238	100.0	240	100.0	478	100.0
T1Trauma12Transaccid	0	187	78.9	169	70.4	356	74.6
	1	50	21.1	71	29.6	121	25.4
$p = 0.04$	all	237	100.0	240	100.0	477	100.0
T1Trauma13Otheraccid	0	211	89.4	208	86.7	419	88.0
	1	25	10.6	32	13.3	57	12.0
$p = 0.40$	all	236	100.0	240	100.0	476	100.0
T1Trauma14Physassault	0	180	76.0	174	72.5	354	74.2
	1	57	24.1	66	27.5	123	25.8
$p = 0.40$	all	237	100.0	240	100.0	477	100.0
T1Trauma15sexassault	0	222	93.3	218	90.8	440	92.0
	1	16	6.7	22	9.2	38	8.0
$p = 0.40$	all	238	100.0	240	100.0	478	100.0
T1Trauma16Combatpolitviol	0	222	93.3	217	90.4	439	91.8

	1	16	6.7	23	9.6	39	8.2
$p = 0.32$	all	238	100.0	240	100.0	478	100.0
T1Trauma17Kidnapping	0	234	98.3	237	98.8	471	98.5
	1	4	1.7	3	1.2	7	1.5
$p = 0.72$	all	238	100.0	240	100.0	478	100.0
T1Trauma18Lifethreateningillness	0	147	61.8	140	58.3	287	60.0
	1	91	38.2	100	41.7	191	40.0
$p = 0.46$	all	238	100.0	240	100.0	478	100.0
T1Trauma19Violdeathclose	0	183	76.9	169	70.4	352	73.6
	1	55	23.1	71	29.6	126	26.4
$p = 0.12$	all	238	100.0	240	100.0	478	100.0
T1Trauma20Violdeathother	0	208	87.8	205	85.4	413	86.6
	1	29	12.2	35	14.6	64	13.4
$p = 0.50$	all	237	100.0	240	100.0	477	100.0
T1Trauma21Harmdeathyoucaused	0	182	76.5	174	72.5	356	74.5
	1	56	23.5	66	27.5	122	25.5
$p = 0.35$	all	238	100.0	240	100.0	478	100.0

Table 13: Reduced dataset - Trauma items at time 1 - descriptive statistics and Fisher's exact test p-values

```
tableNominal(vars = as.data.frame(T1_demographics_income), group = T1_intervention[,1], print.pval = "fisher",
```

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Variable	**Levels**	$\mathbf{n}_{\text{Control}}$	$\%_{\text{Control}}$	$\mathbf{n}_{\text{Interven}}$
T1incomeopen		6	2.5	
	mw pap pale de sa	0	0.0	
	0	54	22.5	
	0mason ak vann dlo	0	0.0	
	100	4	1.7	
	1000	22	9.2	
	1000 dola	0	0.0	
	1000 dola ht	2	0.8	
	1000 g	0	0.0	
	1000 gd	1	0.4	
	1000 gds	1	0.4	
	1000 goud	2	0.8	
	1000 us	0	0.0	
	10000	2	0.8	
	10000 gds	0	0.0	
	10000 goud	1	0.4	
	1000dollars	0	0.0	
	11000 gds	1	0.4	
	1200 dola ht	1	0.4	
	1200 g	1	0.4	
	1300 dola ht	1	0.4	
	150	0	0.0	
	1500	3	1.2	
	1500 dola ht	1	0.4	
	1500 goud	0	0.0	
	1500 goud ht	0	0.0	
	15000	3	1.2	
	15000 goud	1	0.4	
	1600	1	0.4	
	20	0	0.0	
	200	11	4.6	
	200 a 300 dola	0	0.0	
	2000	12	5.0	
	2000 dola	0	0.0	
	2000 dola ht	2	0.8	
	2000 g	0	0.0	
	2000 gde	0	0.0	
	200a 400dollars	1	0.4	
	2200 dola ht	1	0.4	
	250	0	0.0	
	2500	0	0.0	
	2500 a 5000	0	0.0	
	2500 dola ht	1	0.4	
	2500 g	2	0.8	
	2500 goud	0	0.0	
	2900	0	0.0	
	30 dola ht	0	0.0	

300	4	1.7
300 g	0	0.0
3000	4	1.7
3000 a 5000	1	0.4
3000 dola ht	0	0.0
3000 g	2	0.8
3000 goud	2	0.8
3000 goud ht	0	0.0
3000a 5000	1	0.4
3000g	1	0.4
3500 g	1	0.4
4 a 5000	1	0.4
400	2	0.8
400 dola	1	0.4
400 g	1	0.4
4000	5	2.1
4000 dola ht	0	0.0
4000 goud	2	0.8
470 dola ht	1	0.4
50	1	0.4
50 dola ht	2	0.8
500	3	1.2
500 0 g	0	0.0
500 a 1000 dola	0	0.0
500 dola ht	1	0.4
5000	1	0.4
5000 dola	0	0.0
5000 g	0	0.0
5000 gdes	0	0.0
5000 goud	2	0.8
5000a 10000	0	0.0
5000a 10000 gdes	1	0.4
5000g	1	0.4
500a 10	0	0.0
5600	1	0.4
60	1	0.4
600	2	0.8
600 g	1	0.4
6000	2	0.8
700	0	0.0
7000	1	0.4
750 g	1	0.4
7500 goud	1	0.4
800	1	0.4
800 dola ht	1	0.4
8000	1	0.4
900	1	0.4
anyen m patap travay	0	0.0
anyen menm	0	0.0
bon li paka mezire se komes li ye chak jou wapndepanse	0	0.0
dollars 40 us	0	0.0
dollars 5000 ht	0	0.0
I dont know	0	0.0
kibo sa pagen afe menm	0	0.0
komes m fe pa gen revni vre	1	0.4
li pa gen vale nn em paka konnen tou map depanse e se ti komes li ye	0	0.0
lii pat bon	1	0.4
m pa diw	1	0.4
m pa janm kontwole vre	1	0.4
m pa k evalye	1	0.4
m pa k evalye l	0	0.0
m pa ka di anyen	0	0.0
m pa ka di w anyen	0	0.0
m pa kapab konte	0	0.0
m pa kja diw	1	0.4
m pagen yon kantite paske se ti komes map fe	1	0.4
m pagen yon kob fikse paske se yon lekonsa m ka koud yon moso twal	1	0.4
m pap ka reglesa paske se ti biznis m fe	1	0.4
m pap travay	0	0.0
m patap travay	1	0.4
m toujou gen kob antre nan men mwen men pa konte e regle li pou m konnen konbyen li egal	0	0.0
mfe yon ti monnen	0	0.0
mpa gen lajan	1	0.4
mpa gen revni	1	0.4
mpa gen revni fix	0	0.0
mpa genyen	1	0.4

	mpa ka di paskem fe plis defisi	1	0.4
	mpap fe lajan	1	0.4
	mpap travay	3	1.2
	mw pa di anyen paske mw pa ka kontwole	0	0.0
	mw pa kapab	1	0.4
	mwen ka kontrole	0	0.0
	mwen pa fe kalkil sa	0	0.0
	mwen pa gen yon revni kalkilab	0	0.0
	mwen pa ka konte paske li pat ekonomize	0	0.0
	mwen pa ka kontrole	0	0.0
	mwen pa kalkile sa	1	0.4
	mwen pa konnen	0	0.0
	mwen pa kontrole	8	3.3
	mwen pa kontrole sa	1	0.4
	Mwen pa kontrole sa	1	0.4
	mwen pa reflechi konbyen	1	0.4
	mwen pa sonje	1	0.4
	mwen paka kontrole	0	0.0
	mwen pap k di w paske se ban mwen yap ban mwen	0	0.0
	mwen pap k kontwole yo	0	0.0
	mwen pap ka di w anyen	0	0.0
	mwen pap ka reponn kesyon sa	0	0.0
	mwen pat kontrole	0	0.0
	mwen tap tou fou. 250 goud depanse par jou	1	0.4
	non	1	0.4
	non m pa konnen	0	0.0
	nou pa gen anyen	1	0.4
	nou pa make sa	0	0.0
	o	1	0.4
	pa ampil	1	0.4
	pa bien	0	0.0
	pa gen anyen antre	0	0.0
	pa gen lajan menm	0	0.0
	pa gen mwayen	0	0.0
	pa gen repons	2	0.8
	pa gen revni	1	0.4
	petet yon 1000 goud yo	1	0.4
	sa mw pa ka pale w de sa paske se mari m ki ap travay	0	0.0
	sa pa posib	1	0.4
	san repons	1	0.4
	se biznis m pa kontwole paske m depanse achte m kalkile	1	0.4
	se komes pagen kob vre 500 goud	1	0.4
	se malere mwen ye	1	0.4
	se pa mwen ki ap fe	1	0.4
	tout bagay bloke pa gen lajan	0	0.0
$p = 0.63$	all	240	100.2
T1incomesourcesopen		10	4.2
	degaje nou kou nou konnen	0	0.0
	kom<e8>s	0	0.0
	nan travay la t<e8>	1	0.4
	okenn sous	1	0.4
	vann siret	1	0.4
	0	14	5.8
	600	1	0.4
	a sam jwenn m fe	0	0.0
	aa nan komes mwen wi	0	0.0
	ajan sekirite	0	0.0
	akenn resous	1	0.4
	anseye karate	0	0.0
	anyen	4	1.7
	anyen menm	2	0.8
	anyen serye	0	0.0
	architect	0	0.0
	Bagay mwen ban'n	1	0.4
	basen range aparey chage telephone	0	0.0
	baw ti swen sante	0	0.0
	bay swen sante	1	0.4
	bisnis mwen ak madanm mwen	1	0.4
	biznis	3	1.2
	biznis mwen	1	0.4
	Bondye	0	0.0
	bondye voye kek zanmi	0	0.0
	bos tay<e8>	1	0.4
	boutik	1	0.4
	boutik lan	1	0.4

boutik mwen	0	0.0
brase map brase	0	0.0
brik a brak	0	0.0
chabon an map vann	0	0.0
cuisine	0	0.0
diapora, job	0	0.0
diaspira	0	0.0
diaspora	1	0.4
djob	1	0.4
dlo m konnen vann	0	0.0
dlo mwen ap vann	0	0.0
dyaspora	4	1.7
dyob defwa,oubyen fanmim	1	0.4
dyob mason	0	0.0
ebenis	0	0.0
ed fanmi	0	0.0
ed fanmi an	0	0.0
ede pep	1	0.4
elektrisite	0	0.0
enseyan	0	0.0
eskont	1	0.4
etidyan	0	0.0
fanmi	2	0.8
fanmi a letranje	1	0.4
fanmi ak zanmi	0	0.0
fanmi ki konn banm iu byen lem fonw ti job	0	0.0
fanmi kkonn voye pou mwen	0	0.0
fanmi komes la epi zanmi tou	1	0.4
fanmi lot bo dlo	0	0.0
fanmi lotbo	3	1.2
fanmi m ki ban mwen l	1	0.4
fanmi mwen	2	0.8
fanmim	4	1.7
fanmim ak lem fonw djob	1	0.4
fanmim bon pwochen	1	0.4
fanmim ki korem	1	0.4
fanmim ki se se mwen	0	0.0
fanmim papa pitit	1	0.4
fanmim papa pitit mwen	1	0.4
fanmim tet mwen tou	0	0.0
fanmim zanmi	0	0.0
fanmiw	1	0.4
fanmiw zanmi kek job tou	1	0.4
fanmiy	0	0.0
fe mwen pezepeze	1	0.4
fe ti djob	0	0.0
fe ti komes mwen	0	0.0
fqnmim fe ti komes devan pot la	0	0.0
job	5	2.1
Job	0	0.0
job beton	0	0.0
journaliste	0	0.0
kado	3	1.2
kob kay	0	0.0
kob yon moun	0	0.0
kom<e8>s	1	0.4
komes	37	15.4
Komes	0	0.0
komes ak moun kap travay	1	0.4
komes bwason	1	0.4
komes fanmi an	1	0.4
komes kann	1	0.4
komes mwen pitit mwen sil li ta genyen	1	0.4
komes nhanmchanm	1	0.4
komes zanmi	0	0.0
komesant	1	0.4
kondi machine	1	0.4
kouti	1	0.4
kouti travay marim	1	0.4
le mesye al fe blok	0	0.0
Le mwen jwenn kamyon se chofe mwen ye	0	0.0
lem jwenn job	1	0.4
lesiv, zaboka	0	0.0
m Bondye	0	0.0
m pa diw	1	0.4
m pa genyen	1	0.4

m pa ka diw	3	1.2
m pa ka evalye	0	0.0
m pa konnen	0	0.0
m pap fe anyen se pitit mwen ki ban mwen	0	0.0
m pap travay	0	0.0
m pla diw anyen	1	0.4
mache	3	1.2
majan sante polyvalent	1	0.4
manmanm	1	0.4
manmim	1	0.4
map fe lekol	1	0.4
mari mwen	0	0.0
marim	6	2.5
marim ap travay	0	0.0
marim fanmim	0	0.0
mariw	0	0.0
mariw kap travay	1	0.4
mason	3	1.2
Mason	0	0.0
mason'sam jwenn	1	0.4
mason ak fouye tou pou moun yo	1	0.4
mason, chapant,feray<e8> , poze seramik	1	0.4
mason, travay lat<e8>	0	0.0
matant mwen	1	0.4
mayi boukannen	1	0.4
mekanik	0	0.0
mekanisyen	1	0.4
mfe yon yti aktivite biznis	0	0.0
minewoch	0	0.0
mmekanik	1	0.4
momes	0	0.0
moun ki longe lamen banmwen	1	0.4
mpa fe kob	0	0.0
mpa fe kob se yon ti biznis ki pap menm mache	1	0.4
mpa gen rantre	0	0.0
mpa gen revmi	1	0.4
mpa gen revni	0	0.0
mpa gen revni se le yo relem vin fe yon ti job mal fe	1	0.4
mpa genyen	1	0.4
mpa ka bay yon vale fix	0	0.0
mpaa gen revni	1	0.4
mpap fe anyen se Bondye kap ese mwen	1	0.4
mpap travay	1	0.4
mw pap fe anyen	1	0.4
mwen fe komens	0	0.0
mwen koud	1	0.4
mwen pa konnen	0	0.0
mwen pap fe anyen	0	0.0
mwen vann ragou ak bega	1	0.4
nan bras komes	0	0.0
nan fe blok	0	0.0
nan mason ak madanm kap fe ti manje	0	0.0
nan men nevem	0	0.0
nan ti travay madanm mwen	1	0.4
nan tout sa m jwenn	0	0.0
no	0	0.0
nou fe ti travay'nou gen shop.	0	0.0
okenb kote	1	0.4
okenn kote	7	2.9
okenn sous	0	0.0
pa genyen	1	0.4
pa vreman ge kob	0	0.0
pan gen revni	1	0.4
papa mw se ajan nan semanah	0	0.0
papa pitit mwen an kap travay	0	0.0
papa pititnmwen an	1	0.4
papa yo ki okipe yo	0	0.0
papam	1	0.4
Papam	1	0.4
papam manmanm	1	0.4
penyen ti tet ti komes	0	0.0
pitit mwen	0	0.0
pitit mwen fanmim	1	0.4
prete	0	0.0
proche	0	0.0
pwofese	1	0.4

	sa mwen jwenn	1	0.4
	san repons	1	0.4
	sanble nan fe komes	1	0.4
	sim jwenn yon ti dyob	1	0.4
	sol	5	2.1
	sol,ti komes	1	0.4
	tailleur	1	0.4
	tant mwen al vann	1	0.4
	taxi moto	0	0.0
	ti aktivte lem jwenn	1	0.4
	ti degaje	0	0.0
	ti dyob	1	0.4
	ti dyob mwen	1	0.4
	ti job	1	0.4
	ti job , ti komes	0	0.0
	ti job kek fwa ou pitit mwen	0	0.0
	ti komes	5	2.1
	ti komes chabon	1	0.4
	ti komes fritay	0	0.0
	ti komes kafe a	1	0.4
	ti komes madanm mwen	1	0.4
	ti komes pou fe ti kob men se pa lajam vre	1	0.4
	ti komnes	1	0.4
	ti roulman	0	0.0
	ti travay	0	0.0
	ti travay lem jwenn	0	0.0
	ti travay mw fe	0	0.0
	travay	14	5.8
	travay ak fe komes	1	0.4
	travay kom pwofese	1	0.4
	travay macon	1	0.4
	travay mason	1	0.4
	travay mwen	1	0.4
	travay,mason	1	0.4
	travaye	1	0.4
	ttavay	0	0.0
	van'n	1	0.4
	vann bete	0	0.0
	vann kafe pen a manba	0	0.0
	vann pistache	0	0.0
	vi nou se sou kont bondye li ye	0	0.0
	yon kado	1	0.4
	zanmi	0	0.0
	zanmi kite fe mwen kado bagay sa	0	0.0
	zanmi ou fanmi defwam fe dyob pouse bouret ak machandiz pou moun	0	0.0
	zanmim	0	0.0
	zanmim konn banm demi jounen travay	0	0.0
$p = 0.07$	all	240	100.3

Table 14: Reduced dataset - Demographics at time 1 - descriptive statistics and Fisher's exact test p-values

Now we'll explore the qualitative data regarding whether and why, if not, a subject participated in the intervention.

```
tableNominal(vars = as.data.frame(qual_participation_T2), lab = "tabqualt2", longtable = TRUE, cumsum = FALSE,
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sat Apr 07 18:18:20 2018

Variable	**Levels**	**n**	%
T2TrainParticipatedintraining	0	181	58.8
	1	127	41.2
	all	308	100.0
T2TrainDidnotattendtrainingwhyno	1	130	81.8
	2	29	18.2
	all	159	100.0
T2TrainHowmanysessionsattended	4	3	2.4
	5	16	12.6
	6	108	85.0
	all	127	100.0
T2TrainReceivedagift	0	28	22.1
	1	99	78.0
	all	127	100.0

T2TrainAjan		367	76.5
	Marie Bettie	1	0.2
	Bettie	13	2.7
	Bettie samuel	2	0.4
	Betty	3	0.6
	Betty et Samuel	2	0.4
	eoberto e gessica	1	0.2
	Gessica	2	0.4
	Gessica , Roberto	1	0.2
	gessica am roberto	1	0.2
	Gessica et Robertho	5	1.0
	Gessica Ftrancois	1	0.2
	gessica roberto	1	0.2
	Gessica Roberto	5	1.0
	gessica roiberto	1	0.2
	Gessica, Roberto	7	1.5
	Gessiva , Roberto	1	0.2
	Gessiva Roberto	1	0.2
	Marie Bettie	5	1.0
	roberrto louis	1	0.2
	Robertho et Gessica	1	0.2
	roberto	10	2.1
	Roberto akbgessuca	1	0.2
	Roberto am Gessica	1	0.2
	roberto e gessica	1	0.2
	Roberto Gessica	1	0.2
	samuel ak bettie	1	0.2
	Samuel ak Bettie	10	2.1
	Samuel Ak Bettie	1	0.2
	Samuel Bettie	1	0.2
	Samuel et Betty	1	0.2
	Stephane	3	0.6
	Stephane ak Tessa	1	0.2
	Stephane ak Tessa	1	0.2
	stephane tessa	2	0.4
	stephane Tessa	1	0.2
	Stephane Tessa	1	0.2
	Stephanie a tessa	1	0.2
	Tesaa ,Stephane	1	0.2
	Tessa , Dufresne	1	0.2
	Tessa , Stephane	5	1.0
	Tessa ,Stephane	1	0.2
	tessa ak stephane	1	0.2
	Tessa Dufresne	1	0.2
	tessa stephane	2	0.4
	Tessa Stephanie evens	1	0.2
	Tessa, Dufresne	1	0.2
	Tessa, Stephane	5	1.0
	Tessa, Strephane	1	0.2
	all	480	100.0
T2Trainrate1	1	1	0.8
	2	2	1.6
	3	2	1.6
	4	15	11.9
	5	106	84.1
	all	126	100.0
T2Trainrate2	1	1	0.8
	2	1	0.8
	3	5	4.0
	4	11	8.7
	5	108	85.7
	all	126	100.0
T2Trainrate3	1	1	0.8
	2	1	0.8
	3	4	3.2
	4	12	9.6
	5	107	85.6
	all	125	100.0
T2Trainrate4	1	1	0.8
	2	2	1.6
	3	3	2.4
	4	13	10.3
	5	107	84.9

all	126	100.0

Table 15: Descriptive statistics of questions related to participation at time 2

```
tableNominal(vars = as.data.frame(qual_participation_open_T2), lab = "tabqualt2open", longtable = TRUE, cumsum
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sat Apr 07 18:18:20 2018

Variable	Levels
T2TrainDidnotattendtrainingwhyn0	
	because I didn't want to get in trouble with my neighbors who wanted to take part in the training but were not ch
	because I live so far from the place they gave the training
	because my child was sick I couldn't come to the training. But I wanted to take part
	I I was in Cap Haitien
	I just got a job
	I lost my phone
	I move to countryside
	I move to countryside because I was sick
	I though it was not a serious thing
	I was in countryside
	I was not available in this moment
	I was not in Port-au-Prince when the training was given I was working at Arcahaie
	I was working at Leogane
	I wasn't choosen
	lack of time
	my child was sick
	my school
	the area was not secured and I have kids that't why I couldn't be there
	they didn't call me to come at the training
	was not there
	all
T2TrainGiftuseful	
	a lot
	a pot with crystal glasses
	a wonderful pot
	a wonderful radio
	help me to have weather news
	help me to listen to radio news and political news
	I am always informed
	I am always with my radio, so it's useful
	I don't use it yet
	I embelish my house with
	I found a clock
	I use it to drink water
	it's important for me it help me to listen to radio news
	it's useful even if I don't use it yet
	it's useful for me at schoolli itil mwen nan lekol mwen
	it's very useful
	it helps me a lot
	it helps me in case of disaster
	it helps me to control the time
	it helps me to listen to radio news
	it helps to go out
	it was a resource for me, my family and my neighbors because often there's no electricity
	it was useful
	it was very useful
	listen to radio news and listen to musique
	no
	oh yes
	the flashlight helps me to light and the radio to have radio news
	to drink water
	when I have to cut my hairs I don't have problem now
	yes
	yes a lot
	yes I found
	yes it's a flashlight
	yes it's very useful
	yes it helps me to listen to radio news
	yes it was useful
	yes it was useful it helps me to listen to radio news
	yes it was useful, thanks
	yes, a lot. they help to listen to radio news and light during the night
	yes, help me to have news about the weather

	yes, I received a radio which helps me a lot
	yes, I put water in
	yes, they will help us to drink water and can be used to throw out water in case of flooding
	yes,my daughter uses it to store food
	all
T2Trainimproveopen	
	A better organization in the groups who had been trained
	a lot but we need materials
	After the SLM training we have to track the training to others
	All that I leraned I used them for myself and my community
	allow more people to participe in the training
	antouka TT as yo the bay man fomasyon the itil mwen ampil
	Do this training more often, allow more people to take part, add more days for the training
	Do this training more often, allow more people to take part, add more days for the training keep contact with the
	Do this training more often, allow more people to take part, add more days for the training,expanding the training
	every thing is good
	everything is good
	everything was good
	everything was good the training should be expanded
	evrything was good
	Extension and continuity
	For all my life I will be able to help myself during disaster andready to help others
	for life
	for my children in the future
	for my community
	for my family
	for my family and my neighbors
	he helps me to become less thoughful
	help me to manage my stress
	help me to prepare for other disasters
	help to prepare for all other disasters
	help us to reforest the area
	I acqired new knowledge on disasterspreparedness
	I acquired additional knowledge
	I acquired new knowledge
	I acquired new knowledge. For example what causes an earthquake and how to avoid to be victim of a disaster
	I am fine and nothing can trouble me
	I am not lying I acquired a lot of knowledge and I spend a good time during this training
	I am very satisfy and I practice them
	I am waiting for other training
	I can ask help for the commity
	I didn't finish with the training I was sick
	I know what to do in case of disasters and how to help others
	I learned a lot of things about how to act during disasters and help others
	I live better, I have new knowledge. SLM told us to be careful. I sharethe SLM training with my neighbors. I feel
	I want you to help more people
	I was not trained
	I was very helpful, I know what to do in case of disasters
	I was very useful and it improves my knowledge
	I will always be prepared
	I will always remember that
	I will be able to help my community to survive in case of disasters
	I will be able to prepare myself for disasters, find a job
	I wish that we can keep staying in contact
	I would like that SLM do more trainings
	I would like the training to be continued
	I would like to have more training
	in acquiring more knowledge
	In case of disasters I know what to do
	In case of disaters such as hurricane, earthquake, flooding I know what to do
	in helping more other people
	in sharing the intrainings with my family
	increase the trainig
	it's good for me because I have new knowledge
	it's good, when I share the intrainings from the training with others they are always asking where I find all of this
	it's to track the training to others
	It's very good because now I know how to prepare for disasters. Thank you
	it's very good, because when I am stressed I do the relaxation exercice. I share what I lerned with others. I help o
	it help me to talk to my family about how to prepare for other coming disasters
	it helps me a lot, because before the training I used to think another way. now I feel good , that why after the 3 d
	it helps me for my children
	it helps me to acquire new knoledge on natural disasters
	it helps me to prepare for other coming disasters
	it helps me to prepare myself and share the training I received
	it helps me to save my family from a bad situation

	it improves my knowledge
	it really helps me because when something wants to trouble me I just joke
	it supposed to be expanded to the whole community
	it was good for me because this trainig help me to think differently, I spent 3 wonderful days in this training
	it was really helpful
	it was very useful
	it was very useful because I did the relaxation exercices when I feel bad and they help me
	Keep helping people
	Keep helping people like me
	Keep remain alert in the camp
	keep supporting people
	Mobilization in advance
	more motivation for the community
	more training
	My certificate will be useful
	Prepared for life
	Prepared Pou fe fas am desas epu Ede lot moiun you. Ede yo prepare man sante mantal you.
	Provide training to all vulnerable communities in Haiti
	share with others
	Take care of people so that the work can continue
	The SLM training help me and my neighbors, everything I received form SLM I shared with them
	The training should be expanded to the whole community
	the training should be for more days
	the training shows me how to live with my children and neighbors. It was very useful
	this training help evryone in the community because I share it with a lot of neighbors
	to help others and my family my neighbors
	to save my family and neighbors 's life in the future
	when I am sad I just remind all the exercices and advices from SLM training and do them and I feel better
	yes everything you will do I'll take part
	you supose to stay in contact on the trained people
all	

Table 16: Descriptive statistics of questions related open responses

```
tableNominal(vars = as.data.frame(qual_participation_T3), lab = "tabqualt3", longtable = TRUE, cumsum = FALSE,
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sat Apr 07 18:18:20 2018

Variable	**Levels**	**n**	%
T3attendedotherdispreptraining	1	5	1.5
	2	329	98.5
	all	334	100.0
T3attendedotherdispreptrainingop		477	99.4
	care	2	0.4
	mwen pat patisipe	1	0.2
	all	480	100.0
T3attendedSLMtraining	0	163	59.7
	1	110	40.3
	all	273	100.0
T3attendedSLMtrainingwhynot	1	115	72.8
	2	43	27.2
	all	158	100.0
T3attendedSLMMHclinic	0	227	83.5
	1	45	16.5
	all	272	100.0
T3SLMMHclinichelpfulness	1	44	97.8
	2	1	2.2
	all	45	100.0
T3SLMMHclinicopen		480	100.0
	all	480	100.0
T3InterviewatT2	0	65	23.8
	1	208	76.2
	all	273	100.0

Table 17: Descriptive statistics of questions related to participation at time 3

```
tableNominal(vars = as.data.frame(qual_participation_open_T3), lab = "tabqualt3open", longtable = TRUE, cumsum
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sat Apr 07 18:18:20 2018

Variable	Levels	n	%
T3attendedSLMtrainingwhynotopen		451	94.0
	an pwovens	1	0.2
	malade	1	0.2
	mwen pa te la mwen pa te ka vini	1	0.2
	mwen par kalifye pou fomasyon an	1	0.2
	mwen pat dispo man moman sa	1	0.2
	mwen pat disponib	1	0.2
	mwen pat disponib man moman	1	0.2
	mwen pat disponib man moman sa	1	0.2
	mwen pat disponib nan moman an	1	0.2
	mwen pat disponib nan momanw	1	0.2
	mwen pat ka vini	1	0.2
	mwen pat ka vino man moman aa	1	0.2
	mwen pat kapab fok se yon moun ki ta pou desann monn nan e montel avem	1	0.2
	mwen pat prezan koz mte ale anyen lakay mwen	1	0.2
	mwen pat prezan man moman an	1	0.2
	mwen te andeyo akoz maladi	1	0.2
	mwen te gen you pweoblem mwen pat kaspab prezan	1	0.2
	mwen te malad	1	0.2
	mwen te malad mwen te ale an pwovens	1	0.2
	mwen the gen timoun malad.	1	0.2
	par la	1	0.2
	paske MW the gen travay le sa a	1	0.2
	paske mwen pa te envite pou sa,men mwen ye patisipe kanmenm	1	0.2
	pou anyen yo pa te dim poum vini yo ye jis pale avem	1	0.2
	pwoblem sante	1	0.2
	pwoblem sekirite mwen pat la soti te gen dezod	1	0.2
	yo pat chwazim pou fomasyon an	1	0.2
	yo pat ka jwenn mwen nan telefon paske mwen te pedi telefon lan	1	0.2
	yo te pale avem se vre men yo pat dim vini nan fomasyon	1	0.2
	all	480	100.0
T3interviewatT2whynot		420	87.5
	anyen m pakonnen	1	0.2
	bon m pa konnen m pate we moun di mwen sa	1	0.2
	kouraj mwen pa pemet mwen	1	0.2
	m pa raplem desa	1	0.2
	m pakonnen sanble m te ka pala sof mwen te ale anba a yo te banm pel bot	1	0.2
	m pate desann m te plis ret nan monn nan	1	0.2
	MW pa lakay MW man mom an sa yo	1	0.2
	mwen pa te la	3	0.6
	mwen pa te we moun non petet yo te ka relem mwen pat la tou	1	0.2
	mwen par la	2	0.4
	mwen pat disponib nan moman sa	2	0.4
	mwen pat envite	1	0.2
	mwen pat ka la	1	0.2
	mwen pat kafou nan moman an	1	0.2
	mwen pat konnen si noubtap vini mwen te soti	1	0.2
	mwen pat la	5	1.0
	mwen pat la nan moman sa	1	0.2
	mwen pat nan kafou nan moman sa	1	0.2
	mwen pat nan kominote a,mwen te andeyo	1	0.2
	mwen pat nan site a nan moman sa	1	0.2
	mwen pat port au prince nan moman entevyou a	1	0.2
	mwen te akaye	1	0.2
	mwen te an pwovens	1	0.2
	mwen te andeyo	2	0.4
	mwen te gen yon ti travay mwen tap fe	1	0.2
	mwen te toujou poukom lakay la ak timoun yo,donk mwen pat ka la	1	0.2
	mwen the chanje adres,tel MW the pedi yobpat ka jwenn mw	1	0.2
	nimero telefon mwen te bay la pa mache anko	1	0.2
	okipe	1	0.2
	paske l<U+FFFD> yo tap relem nan mwen pat disponib	1	0.2
	paske mpat la	1	0.2
	paske MW	1	0.2
	paske mwen pat envite,	1	0.2
	petet yo te ka relem yo pa jwenn mwen	1	0.2
	pwoblem sekirite	1	0.2
	tel mwen pat an fonksyon m pate konn sa petet	1	0.2
	tel mwen pat bon yo pat ka jwenn mwen,e defwa m pa chita fom mwen ale bouske lavi	1	0.2
	telef<U+FFFD>n mwen te gen probl<U+FFFD>m, ajan an pat ka jwenn mwen	1	0.2
	telefn mwen te pdi	3	0.6
	telefon nan te pedi yo pat ka jwenn mwen	1	0.2
	travay MW patbka banm joy le ajan the past MW pat la	1	0.2
	yo par relem	1	0.2

yo pat jwenn mwen nan telefon	4	0.8
yo pat relem	2	0.4
yo tap relem yo pat ka jwenn mwen.	1	0.2
all	480	100.1

Table 18: Descriptive statistics of questions related to participation at time 3 - open responses

```
#print(xtable(qual_participation_T2), type = "html")
#print(xtable(qual_participation_open_T2), type = "html")
#print(xtable(qual_participation_T3), type = "html")
#print(xtable(qual_participation_open_T3), type = "html")
```

Now we'll focus on disaster preparedness items (irrespective of group assignment) to understand the variability in responses across different items.

```
tableNominal(vars = as.data.frame(T1_DP_vars), lab = "tabdp1", longtable = TRUE, cumsum = FALSE, cap = "Descri
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sat Apr 07 18:18:20 2018

Variable	**Levels**	**n**	%
T1DP1Supplykit	0	186	38.8
	1	294	61.2
	all	480	100.0
T1DP2Meds	0	181	37.8
	1	298	62.2
	all	479	100.0
T1DP3Foodwater	0	141	29.6
	1	336	70.4
	all	477	100.0
T1DP4docs	0	75	15.8
	1	400	84.2
	all	475	100.0
T1DP5Securedwelling	0	138	29.0
	1	338	71.0
	all	476	100.0
T1DP6Raiseditems	0	217	45.4
	0.545073375262054	1	0.2
	1	260	54.4
	all	478	100.0
T1DP7Divertwater	0	212	44.4
	1	266	55.6
	all	478	100.0
T1DP8Removedobjects	0	214	44.9
	1	263	55.1
	all	477	100.0
T1DP9Famplan	0	275	58.1
	1	198	41.9
	all	473	100.0
T1DP10Evacplan	0	306	64.6
	1	168	35.4
	all	474	100.0
T1DP11Reconnectplan	0	317	67.2
	1	155	32.8
	all	472	100.0
T1DP12Talkchildren	0	261	54.7
	0.44468085106383	7	1.5
	1	209	43.8
	all	477	100.0
T1DP13Radiotvcomp	0	56	11.8
	1	417	88.2
	all	473	100.0
T1DP14Firstaid	0	346	73.0
	1	128	27.0
	all	474	100.0
T1DP15Cleanwater	0	105	22.1
	1	369	77.8
	all	474	100.0

T1DP16Disinfect	0	118	24.8
	1	358	75.2
	all	476	100.0
T1DP17Sanitation	0	121	25.3
	1	357	74.7
	all	478	100.0
T1DP20Safeplaceflood	0	263	56.4
	1	203	43.6
	all	466	100.0
T1DP21riskysafecommunity	0	458	95.6
	1	21	4.4
	all	479	100.0
T1DP22Helpfriends	0	243	51.0
	1	233	49.0
	all	476	100.0

Table 19: Descriptive statistics of disaster preparation behaviors time 1 questions

```
tableNominal(vars = as.data.frame(T2_DP_vars), lab = "tabdp2", longtable = TRUE, cumsum = FALSE, cap = "Descri
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sat Apr 07 18:18:20 2018

Variable	**Levels**	**n**	%
T2DP1Supplykit	0	162	52.8
	1	145	47.2
	all	307	100.0
T2DP2Meds	0	150	48.9
	0.503311258278146	5	1.6
	1	152	49.5
	all	307	100.0
T2DP3Foodwater	0	111	36.0
	1	197	64.0
	all	308	100.0
T2DP4docs	0	35	11.4
	1	273	88.6
	all	308	100.0
T2DP5Securedwelling_fixed	0	166	54.8
	1	137	45.2
	all	303	100.0
T2DP6Raiseditems	0	204	66.2
	0.335504885993485	1	0.3
	1	103	33.4
	all	308	100.0
T2DP7Divertwater_fixed	0	215	70.5
	1	90	29.5
	all	305	100.0
T2DP8Removedobjects	0	193	62.7
	1	115	37.3
	all	308	100.0
T2DP9Famplan	0	160	52.0
	1	148	48.0
	all	308	100.0
T2DP10Evacplan	0	171	55.5
	1	137	44.5
	all	308	100.0
T2DP11Reconnectplan	0	212	69.3
	1	94	30.7
	all	306	100.0
T2DP12Talkchildren	0	141	47.2
	1	158	52.8
	all	299	100.0
T2DP13Radiotvcomp	0	39	12.8
	1	267	87.2
	all	306	100.0
T2DP14Firstaid	0	172	56.2
	1	134	43.8
	all	306	100.0

T2DP15Cleanwater	0	45	14.8
	1	258	85.2
	all	303	100.0
T2DP16Disinfect	0	47	15.5
	1	257	84.5
	all	304	100.0
T2DP17Sanitation	0	43	14.1
	1	263	86.0
	all	306	100.0
T2DP18Safeplaceflood	0	151	49.0
	1	157	51.0
	all	308	100.0
T2DP19riskysafecommunity	0	210	68.4
	1	97	31.6
	all	307	100.0
T2DP20Helpfriends	0	103	33.8
	1	202	66.2
	all	305	100.0

Table 20: Descriptive statistics of disaster preparation behaviors time 2 questions

```
tableNominal(vars = as.data.frame(T3_DP_vars), lab = "tabdp3", longtable = TRUE, cumsum = FALSE, cap = "Descri
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sat Apr 07 18:18:21 2018

Variable	**Levels**	**n**	%
T3DP1Supplykit	0	298	62.1
	1	182	37.9
	all	480	100.0
T3DP2Meds	0	323	67.3
	1	157	32.7
	all	480	100.0
T3DP3Foodwater	0	220	45.8
	1	260	54.2
	all	480	100.0
T3DP4docs	0	10	3.0
	1	324	97.0
	all	334	100.0
T3DP5Securedwelling_fixed	0	191	58.0
	1	138	42.0
	all	329	100.0
T3DP6Raiseditems	0	190	56.9
	0.372937293729373	31	9.3
	1	113	33.8
	all	334	100.0
T3DP7Divertwater_fixed	0	247	74.2
	1	86	25.8
	all	333	100.0
T3DP8Removedobjects	0	206	61.9
	1	127	38.1
	all	333	100.0
T3DP9Famplan	0	162	48.5
	1	172	51.5
	all	334	100.0
T3DP10Evacplan	0	159	47.8
	1	174	52.2
	all	333	100.0
T3DP11Reconnectplan	0	210	63.1
	1	123	36.9
	all	333	100.0
T3DP12Talkchildren	0	172	51.6
	0.439739413680782	26	7.8
	1	135	40.5
	all	333	100.0
T3DP13Radiotvcomp	0	38	11.4
	1	296	88.6
	all	334	100.0

T3DP14Firstaid	0	172	51.6
	1	161	48.4
	all	333	100.0
T3DP15Cleanwater	0	17	5.2
	1	313	94.8
	all	330	100.0
T3DP16Disinfect	0	28	8.4
	1	304	91.6
	all	332	100.0
T3DP17Sanitation	0	31	9.3
	1	302	90.7
	all	333	100.0
T3DP20Safeplaceflood	0	332	69.2
	1	148	30.8
	all	480	100.0
T3DP21riskysafecommunity	0	435	90.6
	1	45	9.4
	all	480	100.0
T3DP22Helpfriends	0	47	14.3
	1	282	85.7
	all	329	100.0

Table 21: Descriptive statistics of disaster preparation behaviors time 3 questions

Now let's perform a Cronbach's alpha analysis on disaster preparedness items - we can use the alphas if item is omitted to detect outliers.

```
psych::alpha(x = T1_DP_vars, cumulative = TRUE)
```

```
##
## Reliability analysis
## Call: psych::alpha(x = T1_DP_vars, cumulative = TRUE)
##
##   raw_alpha std.alpha G6(smc) average_r S/N    ase mean  sd
##       0.92      0.91    0.93      0.34  10 0.0053   11 5.6
##
##  lower alpha upper     95% confidence boundaries
## 0.91 0.92 0.93
##
##  Reliability if an item is dropped:
##                          raw_alpha std.alpha G6(smc) average_r  S/N
## T1DP1Supplykit                0.91      0.90    0.93      0.33  9.5
## T1DP2Meds                     0.91      0.90    0.93      0.33  9.4
## T1DP3Foodwater                0.91      0.90    0.93      0.33  9.4
## T1DP4docs                     0.91      0.91    0.93      0.34  9.7
## T1DP5Securedwelling           0.91      0.91    0.93      0.33  9.6
## T1DP6Raiseditems              0.91      0.90    0.93      0.33  9.5
## T1DP7Divertwater              0.92      0.91    0.93      0.35 10.1
## T1DP8Removedobjects           0.91      0.91    0.93      0.34  9.8
## T1DP9Famplan                  0.91      0.91    0.93      0.34  9.6
## T1DP10Evacplan                0.91      0.91    0.93      0.34  9.6
## T1DP11Reconnectplan           0.91      0.91    0.93      0.34  9.6
## T1DP12Talkchildren            0.91      0.90    0.93      0.33  9.4
## T1DP13Radiotvcomp             0.92      0.91    0.94      0.36 10.6
## T1DP14Firstaid                0.92      0.91    0.93      0.36 10.6
## T1DP15Cleanwater              0.92      0.91    0.93      0.35 10.2
## T1DP16Disinfect               0.91      0.91    0.93      0.34  9.6
## T1DP17Sanitation              0.91      0.90    0.93      0.33  9.5
## T1DP20Safeplaceflood          0.91      0.91    0.93      0.33  9.6
## T1DP21riskysafecommunity      0.92      0.92    0.94      0.37 11.0
## T1DP22Helpfriends             0.91      0.90    0.93      0.33  9.5
##                          alpha se
## T1DP1Supplykit            0.0057
```

```
## T1DP2Meds                  0.0058
## T1DP3Foodwater             0.0058
## T1DP4docs                  0.0056
## T1DP5Securedwelling        0.0057
## T1DP6Raiseditems           0.0057
## T1DP7Divertwater           0.0053
## T1DP8Removedobjects        0.0055
## T1DP9Famplan               0.0056
## T1DP10Evacplan             0.0056
## T1DP11Reconnectplan        0.0056
## T1DP12Talkchildren         0.0057
## T1DP13Radiotvcomp          0.0053
## T1DP14Firstaid             0.0052
## T1DP15Cleanwater           0.0053
## T1DP16Disinfect            0.0056
## T1DP17Sanitation           0.0056
## T1DP20Safeplaceflood       0.0057
## T1DP21riskysafecommunity   0.0053
## T1DP22Helpfriends          0.0057
##
##  Item statistics
##                             n raw.r std.r r.cor r.drop  mean   sd
## T1DP1Supplykit            480  0.70  0.69  0.68   0.65 0.613 0.49
## T1DP2Meds                 479  0.74  0.73  0.72   0.69 0.622 0.49
## T1DP3Foodwater            477  0.75  0.75  0.75   0.71 0.704 0.46
## T1DP4docs                 475  0.63  0.64  0.62   0.59 0.842 0.37
## T1DP5Securedwelling       476  0.68  0.68  0.67   0.64 0.710 0.45
## T1DP6Raiseditems          478  0.71  0.71  0.70   0.67 0.545 0.50
## T1DP7Divertwater          478  0.51  0.51  0.48   0.44 0.556 0.50
## T1DP8Removedobjects       477  0.61  0.61  0.59   0.55 0.551 0.50
## T1DP9Famplan              473  0.67  0.66  0.65   0.62 0.419 0.49
## T1DP10Evacplan            474  0.67  0.67  0.66   0.63 0.354 0.48
## T1DP11Reconnectplan       472  0.68  0.67  0.66   0.63 0.328 0.47
## T1DP12Talkchildren        477  0.72  0.72  0.71   0.68 0.445 0.49
## T1DP13Radiotvcomp         473  0.32  0.35  0.29   0.27 0.882 0.32
## T1DP14Firstaid            474  0.37  0.37  0.31   0.29 0.270 0.44
## T1DP15Cleanwater          474  0.47  0.49  0.45   0.41 0.778 0.42
## T1DP16Disinfect           476  0.66  0.66  0.66   0.61 0.752 0.43
## T1DP17Sanitation          478  0.69  0.70  0.70   0.64 0.747 0.44
## T1DP20Safeplaceflood      466  0.68  0.68  0.66   0.64 0.436 0.50
## T1DP21riskysafecommunity  479  0.19  0.23  0.17   0.16 0.044 0.20
## T1DP22Helpfriends         476  0.71  0.70  0.69   0.66 0.489 0.50
##
## Non missing response frequency for each item
##                               0 0.44468085106383 0.545073375262054    1 miss
## T1DP1Supplykit             0.39             0.00                 0 0.61 0.00
## T1DP2Meds                  0.38             0.00                 0 0.62 0.00
## T1DP3Foodwater             0.30             0.00                 0 0.70 0.01
## T1DP4docs                  0.16             0.00                 0 0.84 0.01
## T1DP5Securedwelling        0.29             0.00                 0 0.71 0.01
## T1DP6Raiseditems           0.45             0.00                 0 0.54 0.00
## T1DP7Divertwater           0.44             0.00                 0 0.56 0.00
## T1DP8Removedobjects        0.45             0.00                 0 0.55 0.01
## T1DP9Famplan               0.58             0.00                 0 0.42 0.01
## T1DP10Evacplan             0.65             0.00                 0 0.35 0.01
## T1DP11Reconnectplan        0.67             0.00                 0 0.33 0.02
## T1DP12Talkchildren         0.55             0.01                 0 0.44 0.01
## T1DP13Radiotvcomp          0.12             0.00                 0 0.88 0.01
## T1DP14Firstaid             0.73             0.00                 0 0.27 0.01
## T1DP15Cleanwater           0.22             0.00                 0 0.78 0.01
```

```
## T1DP16Disinfect          0.25             0.00                 0 0.75 0.01
## T1DP17Sanitation         0.25             0.00                 0 0.75 0.00
## T1DP20Safeplaceflood     0.56             0.00                 0 0.44 0.03
## T1DP21riskysafecommunity 0.96             0.00                 0 0.04 0.00
## T1DP22Helpfriends        0.51             0.00                 0 0.49 0.01
```

```
psych::alpha(x = T2_DP_vars, cumulative = TRUE)
```

```
##
## Reliability analysis
## Call: psych::alpha(x = T2_DP_vars, cumulative = TRUE)
##
##   raw_alpha std.alpha G6(smc) average_r S/N    ase mean  sd
##       0.89      0.89    0.91      0.29 8.1 0.0073  7.1 6.7
##
##  lower alpha upper     95% confidence boundaries
## 0.87 0.89 0.9
##
##  Reliability if an item is dropped:
##                            raw_alpha std.alpha G6(smc) average_r S/N
## T2DP1Supplykit                  0.88      0.88    0.90      0.28 7.5
## T2DP2Meds                       0.88      0.88    0.90      0.28 7.6
## T2DP3Foodwater                  0.88      0.89    0.91      0.29 7.7
## T2DP4docs                       0.88      0.89    0.91      0.29 7.7
## T2DP5Securedwelling_fixed       0.89      0.89    0.91      0.29 7.8
## T2DP6Raiseditems                0.89      0.89    0.91      0.29 7.9
## T2DP7Divertwater_fixed          0.89      0.89    0.91      0.30 8.0
## T2DP8Removedobjects             0.88      0.89    0.91      0.29 7.8
## T2DP9Famplan                    0.88      0.88    0.90      0.28 7.4
## T2DP10Evacplan                  0.88      0.88    0.90      0.28 7.3
## T2DP11Reconnectplan             0.88      0.88    0.91      0.29 7.6
## T2DP12Talkchildren              0.88      0.88    0.90      0.28 7.4
## T2DP13Radiotvcomp               0.89      0.89    0.91      0.30 8.0
## T2DP14Firstaid                  0.89      0.89    0.91      0.29 7.8
## T2DP15Cleanwater                0.88      0.88    0.90      0.28 7.6
## T2DP16Disinfect                 0.88      0.88    0.90      0.28 7.3
## T2DP17Sanitation                0.88      0.88    0.90      0.28 7.5
## T2DP18Safeplaceflood            0.88      0.88    0.90      0.28 7.5
## T2DP19riskysafecommunity        0.89      0.89    0.91      0.29 7.9
## T2DP20Helpfriends               0.88      0.88    0.90      0.28 7.5
##                            alpha se
## T2DP1Supplykit              0.0078
## T2DP2Meds                   0.0078
## T2DP3Foodwater              0.0076
## T2DP4docs                   0.0076
## T2DP5Securedwelling_fixed   0.0075
## T2DP6Raiseditems            0.0075
## T2DP7Divertwater_fixed      0.0074
## T2DP8Removedobjects         0.0075
## T2DP9Famplan                0.0079
## T2DP10Evacplan              0.0081
## T2DP11Reconnectplan         0.0077
## T2DP12Talkchildren          0.0079
## T2DP13Radiotvcomp           0.0074
## T2DP14Firstaid              0.0075
## T2DP15Cleanwater            0.0076
## T2DP16Disinfect             0.0078
## T2DP17Sanitation            0.0077
## T2DP18Safeplaceflood        0.0078
## T2DP19riskysafecommunity    0.0075
## T2DP20Helpfriends           0.0078
```

```
##
##  Item statistics
##                              n raw.r std.r r.cor r.drop mean   sd
## T2DP1Supplykit             307  0.63  0.62  0.60   0.57 0.47 0.50
## T2DP2Meds                  307  0.62  0.60  0.58   0.55 0.50 0.50
## T2DP3Foodwater             308  0.53  0.53  0.50   0.47 0.64 0.48
## T2DP4docs                  308  0.51  0.54  0.50   0.47 0.89 0.32
## T2DP5Securedwelling_fixed 303  0.50  0.49  0.45   0.42 0.45 0.50
## T2DP6Raiseditems           308  0.49  0.48  0.44   0.42 0.34 0.47
## T2DP7Divertwater_fixed     305  0.44  0.43  0.39   0.36 0.30 0.46
## T2DP8Removedobjects        308  0.50  0.50  0.45   0.43 0.37 0.48
## T2DP9Famplan               308  0.67  0.66  0.64   0.61 0.48 0.50
## T2DP10Evacplan             308  0.73  0.71  0.70   0.67 0.44 0.50
## T2DP11Reconnectplan        306  0.60  0.58  0.56   0.53 0.31 0.46
## T2DP12Talkchildren         299  0.66  0.66  0.64   0.60 0.53 0.50
## T2DP13Radiotvcomp          306  0.39  0.42  0.37   0.33 0.87 0.33
## T2DP14Firstaid             306  0.49  0.49  0.45   0.41 0.44 0.50
## T2DP15Cleanwater           303  0.56  0.60  0.60   0.52 0.85 0.36
## T2DP16Disinfect            304  0.65  0.69  0.71   0.61 0.85 0.36
## T2DP17Sanitation           306  0.58  0.62  0.62   0.53 0.86 0.35
## T2DP18Safeplaceflood       308  0.64  0.63  0.61   0.58 0.51 0.50
## T2DP19riskysafecommunity   307  0.47  0.46  0.42   0.40 0.32 0.47
## T2DP20Helpfriends          305  0.65  0.65  0.62   0.59 0.66 0.47
##
## Non missing response frequency for each item
##                               0 0.335504885993485 0.503311258278146    1
## T2DP1Supplykit             0.53                 0              0.00 0.47
## T2DP2Meds                  0.49                 0              0.02 0.50
## T2DP3Foodwater             0.36                 0              0.00 0.64
## T2DP4docs                  0.11                 0              0.00 0.89
## T2DP5Securedwelling_fixed 0.55                 0              0.00 0.45
## T2DP6Raiseditems           0.66                 0              0.00 0.33
## T2DP7Divertwater_fixed     0.70                 0              0.00 0.30
## T2DP8Removedobjects        0.63                 0              0.00 0.37
## T2DP9Famplan               0.52                 0              0.00 0.48
## T2DP10Evacplan             0.56                 0              0.00 0.44
## T2DP11Reconnectplan        0.69                 0              0.00 0.31
## T2DP12Talkchildren         0.47                 0              0.00 0.53
## T2DP13Radiotvcomp          0.13                 0              0.00 0.87
## T2DP14Firstaid             0.56                 0              0.00 0.44
## T2DP15Cleanwater           0.15                 0              0.00 0.85
## T2DP16Disinfect            0.15                 0              0.00 0.85
## T2DP17Sanitation           0.14                 0              0.00 0.86
## T2DP18Safeplaceflood       0.49                 0              0.00 0.51
## T2DP19riskysafecommunity   0.68                 0              0.00 0.32
## T2DP20Helpfriends          0.34                 0              0.00 0.66
##                            miss
## T2DP1Supplykit             0.36
## T2DP2Meds                  0.36
## T2DP3Foodwater             0.36
## T2DP4docs                  0.36
## T2DP5Securedwelling_fixed 0.37
## T2DP6Raiseditems           0.36
## T2DP7Divertwater_fixed     0.36
## T2DP8Removedobjects        0.36
## T2DP9Famplan               0.36
## T2DP10Evacplan             0.36
## T2DP11Reconnectplan        0.36
## T2DP12Talkchildren         0.38
## T2DP13Radiotvcomp          0.36
```

```
## T2DP14Firstaid            0.36
## T2DP15Cleanwater          0.37
## T2DP16Disinfect           0.37
## T2DP17Sanitation          0.36
## T2DP18Safeplaceflood      0.36
## T2DP19riskysafecommunity  0.36
## T2DP20Helpfriends         0.36
```

```
psych::alpha(x = T3_DP_vars, cumulative = TRUE)
```

```
##
## Reliability analysis
## Call: psych::alpha(x = T3_DP_vars, cumulative = TRUE)
##
##   raw_alpha std.alpha G6(smc) average_r S/N   ase mean  sd
##       0.82      0.81    0.85      0.18 4.3 0.012  8.1 6.2
##
##  lower alpha upper     95% confidence boundaries
## 0.79 0.82 0.84
##
##  Reliability if an item is dropped:
##                           raw_alpha std.alpha G6(smc) average_r S/N
## T3DP1Supplykit                 0.80      0.79    0.84      0.17 3.8
## T3DP2Meds                      0.80      0.80    0.84      0.17 3.9
## T3DP3Foodwater                 0.81      0.81    0.85      0.18 4.2
## T3DP4docs                      0.82      0.81    0.86      0.19 4.4
## T3DP5Securedwelling_fixed      0.81      0.81    0.85      0.18 4.2
## T3DP6Raiseditems               0.82      0.82    0.86      0.19 4.5
## T3DP7Divertwater_fixed         0.81      0.81    0.85      0.18 4.2
## T3DP8Removedobjects            0.81      0.81    0.85      0.18 4.2
## T3DP9Famplan                   0.79      0.79    0.83      0.17 3.8
## T3DP10Evacplan                 0.79      0.79    0.83      0.16 3.7
## T3DP11Reconnectplan            0.80      0.79    0.84      0.17 3.9
## T3DP12Talkchildren             0.80      0.80    0.84      0.17 4.0
## T3DP13Radiotvcomp              0.81      0.81    0.85      0.18 4.2
## T3DP14Firstaid                 0.80      0.80    0.85      0.17 4.0
## T3DP15Cleanwater               0.81      0.81    0.85      0.18 4.3
## T3DP16Disinfect                0.81      0.80    0.84      0.18 4.0
## T3DP17Sanitation               0.81      0.81    0.84      0.18 4.1
## T3DP20Safeplaceflood           0.81      0.81    0.85      0.18 4.2
## T3DP21riskysafecommunity       0.81      0.80    0.85      0.18 4.1
## T3DP22Helpfriends              0.81      0.80    0.85      0.18 4.1
##                           alpha se
## T3DP1Supplykit                0.013
## T3DP2Meds                     0.013
## T3DP3Foodwater                0.012
## T3DP4docs                     0.012
## T3DP5Securedwelling_fixed     0.012
## T3DP6Raiseditems              0.011
## T3DP7Divertwater_fixed        0.012
## T3DP8Removedobjects           0.012
## T3DP9Famplan                  0.013
## T3DP10Evacplan                0.013
## T3DP11Reconnectplan           0.013
## T3DP12Talkchildren            0.012
## T3DP13Radiotvcomp             0.012
## T3DP14Firstaid                0.012
## T3DP15Cleanwater              0.012
## T3DP16Disinfect               0.012
## T3DP17Sanitation              0.012
## T3DP20Safeplaceflood          0.012
```

```
## T3DP21riskysafecommunity     0.012
## T3DP22Helpfriends            0.012
##
##  Item statistics
##                              n raw.r std.r r.cor r.drop  mean   sd
## T3DP1Supplykit             480  0.70  0.63  0.63  0.580 0.379 0.49
## T3DP2Meds                  480  0.65  0.60  0.59  0.554 0.327 0.47
## T3DP3Foodwater             480  0.72  0.38  0.35  0.285 0.542 0.50
## T3DP4docs                  334  0.23  0.29  0.21  0.177 0.970 0.17
## T3DP5Securedwelling_fixed 329  0.45  0.41  0.36  0.328 0.419 0.49
## T3DP6Raiseditems           334  0.21  0.20  0.11  0.099 0.373 0.46
## T3DP7Divertwater_fixed     333  0.41  0.37  0.32  0.301 0.258 0.44
## T3DP8Removedobjects        333  0.46  0.43  0.38  0.341 0.381 0.49
## T3DP9Famplan               334  0.69  0.66  0.67  0.599 0.515 0.50
## T3DP10Evacplan             333  0.73  0.70  0.71  0.652 0.523 0.50
## T3DP11Reconnectplan        333  0.66  0.62  0.61  0.564 0.369 0.48
## T3DP12Talkchildren         333  0.55  0.53  0.50  0.446 0.440 0.48
## T3DP13Radiotvcomp          334  0.36  0.40  0.34  0.282 0.886 0.32
## T3DP14Firstaid             333  0.55  0.53  0.49  0.441 0.483 0.50
## T3DP15Cleanwater           330  0.27  0.33  0.26  0.214 0.948 0.22
## T3DP16Disinfect            332  0.44  0.50  0.49  0.374 0.916 0.28
## T3DP17Sanitation           333  0.39  0.44  0.42  0.321 0.907 0.29
## T3DP20Safeplaceflood       480  0.53  0.41  0.36  0.316 0.308 0.46
## T3DP21riskysafecommunity  480  0.37  0.45  0.41  0.376 0.094 0.29
## T3DP22Helpfriends          329  0.45  0.48  0.44  0.364 0.857 0.35
##
## Non missing response frequency for each item
##                                0 0.372937293729373 0.439739413680782    1
## T3DP1Supplykit             0.62              0.00              0.00 0.38
## T3DP2Meds                  0.67              0.00              0.00 0.33
## T3DP3Foodwater             0.46              0.00              0.00 0.54
## T3DP4docs                  0.03              0.00              0.00 0.97
## T3DP5Securedwelling_fixed 0.58              0.00              0.00 0.42
## T3DP6Raiseditems           0.57              0.09              0.00 0.34
## T3DP7Divertwater_fixed     0.74              0.00              0.00 0.26
## T3DP8Removedobjects        0.62              0.00              0.00 0.38
## T3DP9Famplan               0.49              0.00              0.00 0.51
## T3DP10Evacplan             0.48              0.00              0.00 0.52
## T3DP11Reconnectplan        0.63              0.00              0.00 0.37
## T3DP12Talkchildren         0.52              0.00              0.08 0.41
## T3DP13Radiotvcomp          0.11              0.00              0.00 0.89
## T3DP14Firstaid             0.52              0.00              0.00 0.48
## T3DP15Cleanwater           0.05              0.00              0.00 0.95
## T3DP16Disinfect            0.08              0.00              0.00 0.92
## T3DP17Sanitation           0.09              0.00              0.00 0.91
## T3DP20Safeplaceflood       0.69              0.00              0.00 0.31
## T3DP21riskysafecommunity  0.91              0.00              0.00 0.09
## T3DP22Helpfriends          0.14              0.00              0.00 0.86
##                               miss
## T3DP1Supplykit             0.00
## T3DP2Meds                  0.00
## T3DP3Foodwater             0.00
## T3DP4docs                  0.30
## T3DP5Securedwelling_fixed 0.31
## T3DP6Raiseditems           0.30
## T3DP7Divertwater_fixed     0.31
## T3DP8Removedobjects        0.31
## T3DP9Famplan               0.30
## T3DP10Evacplan             0.31
## T3DP11Reconnectplan        0.31
```

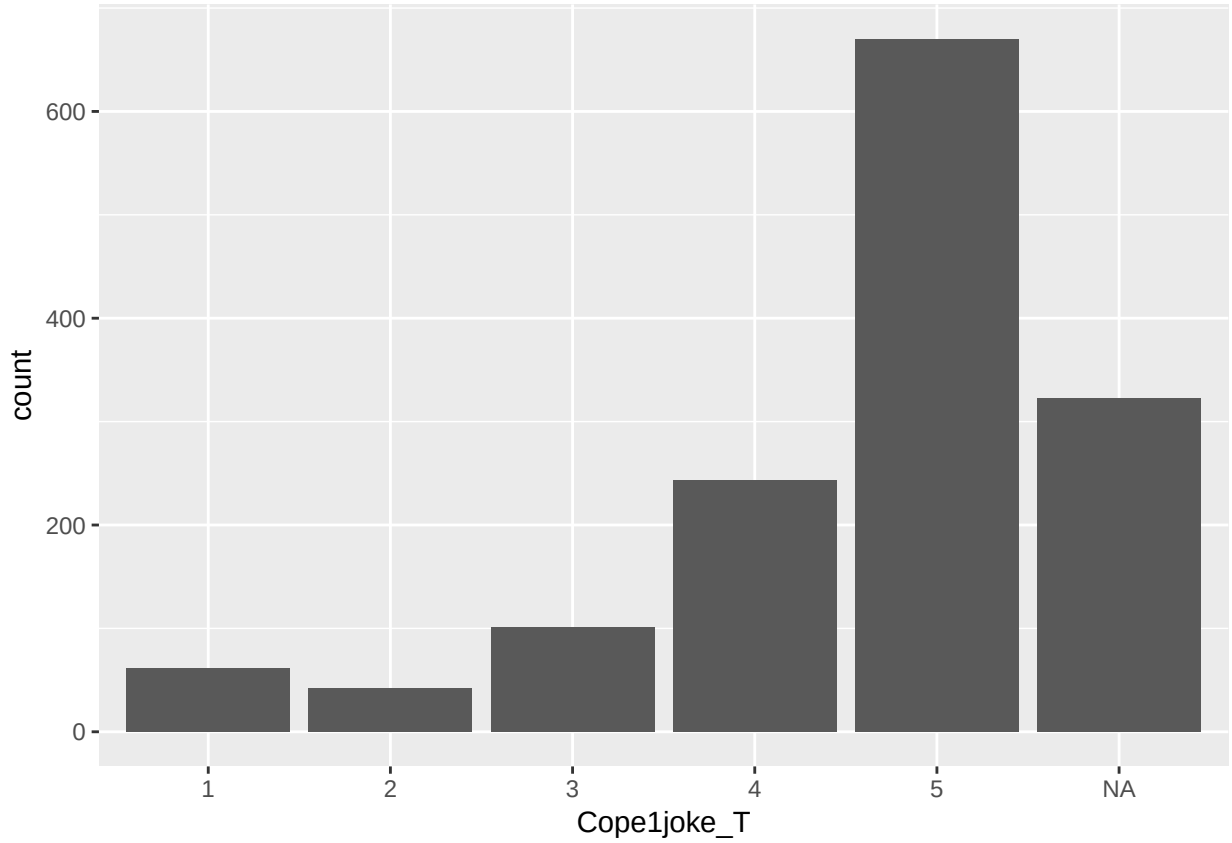
```
## T3DP12Talkchildren        0.31
## T3DP13Radiotvcomp         0.30
## T3DP14Firstaid            0.31
## T3DP15Cleanwater          0.31
## T3DP16Disinfect           0.31
## T3DP17Sanitation          0.31
## T3DP20Safeplaceflood      0.00
## T3DP21riskysafecommunity  0.00
## T3DP22Helpfriends         0.31
```

Let's look at the distribution of the coping variables to see how suitable for analysis they are individually.

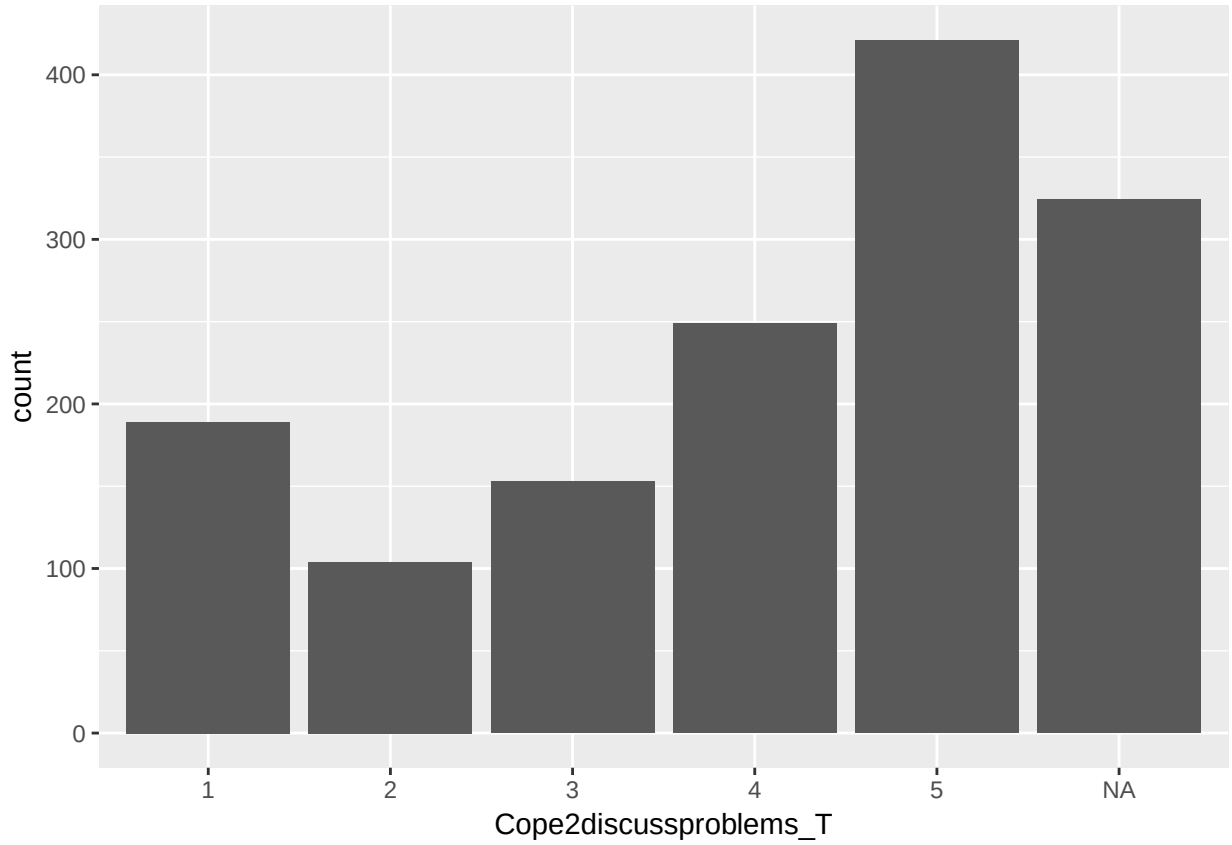
```
for(var in cope_var_names) {
  print(ggplot(data, aes_string(x = var)) + geom_histogram(stat = "count"))
}
```

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```

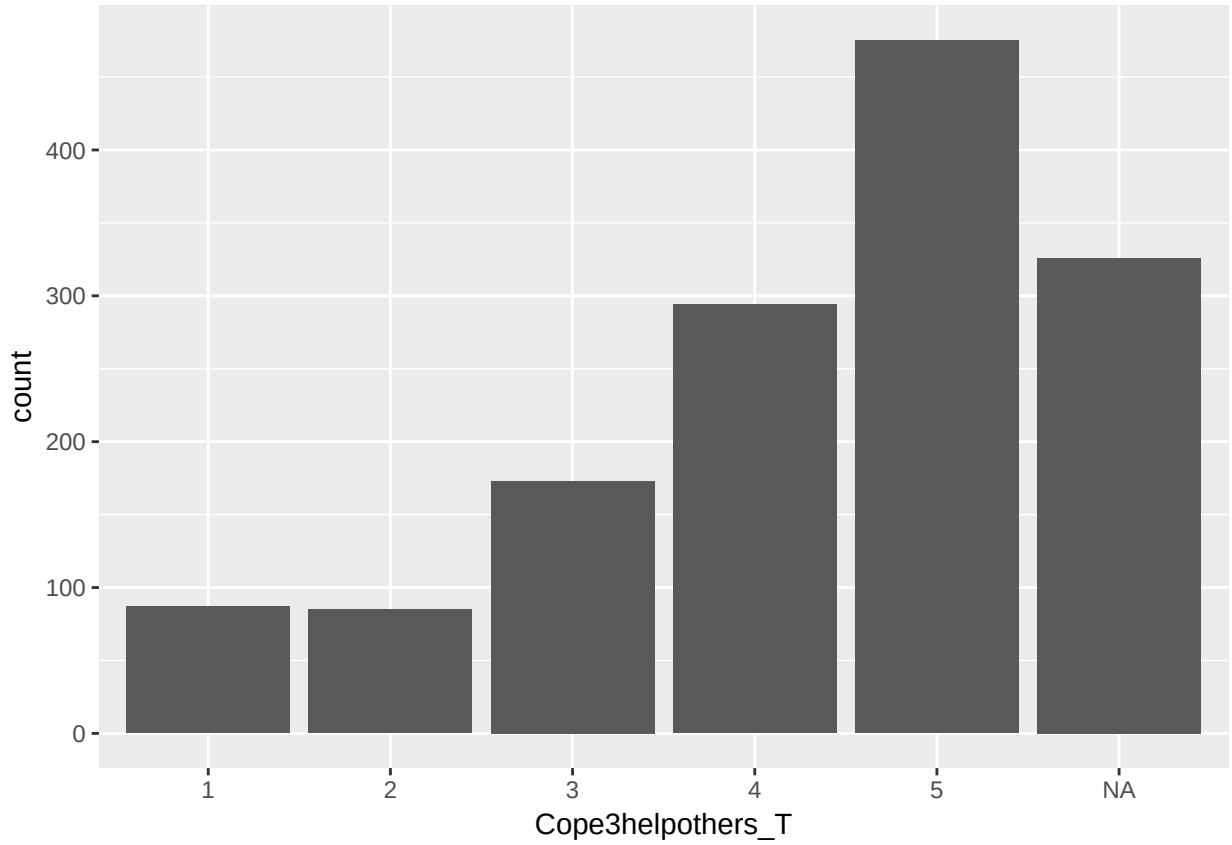
```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```



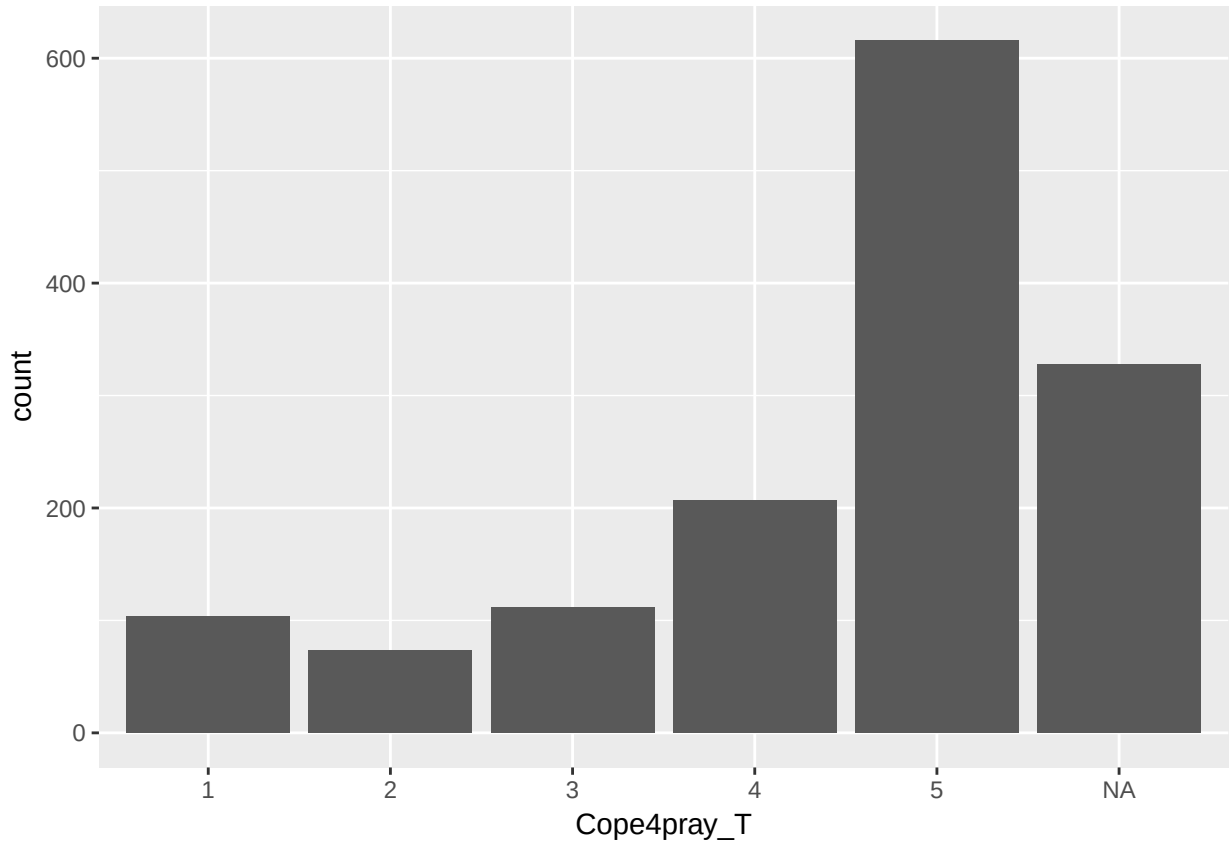

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```



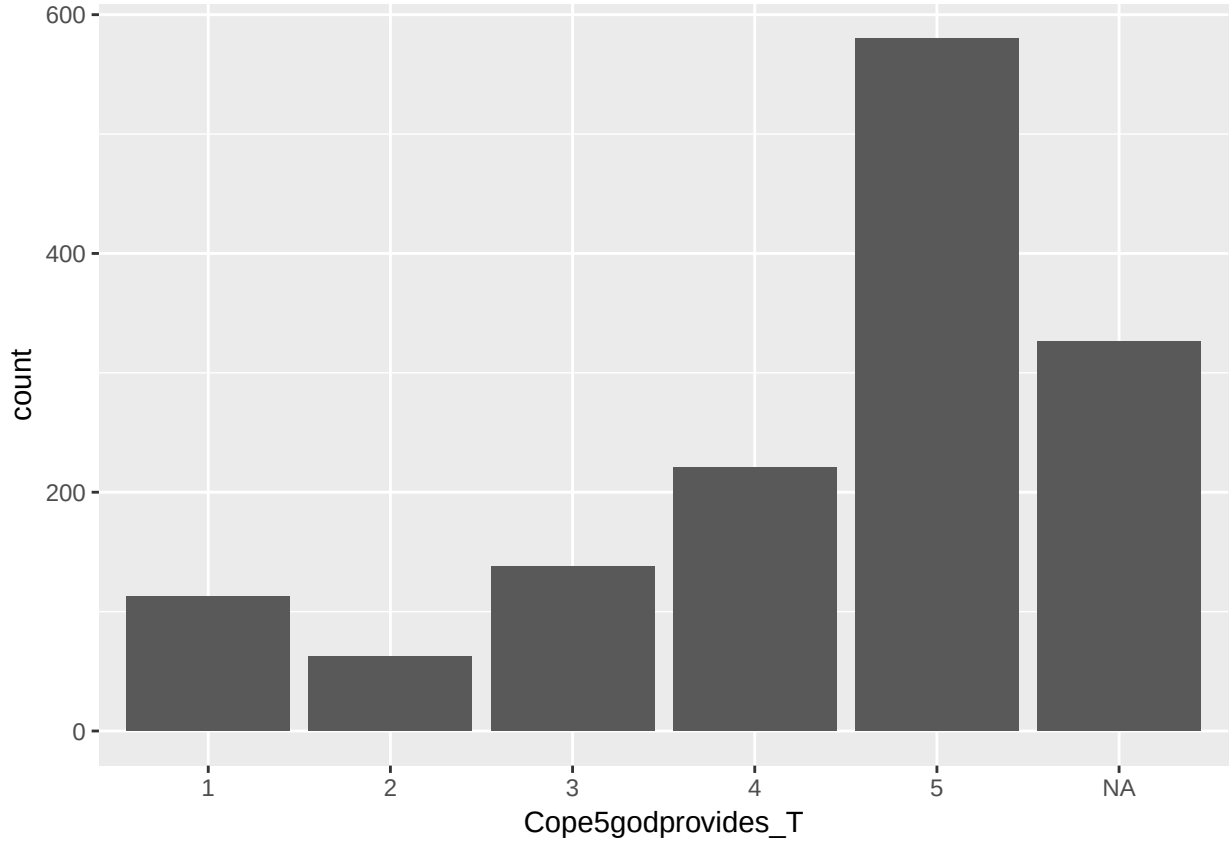

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```



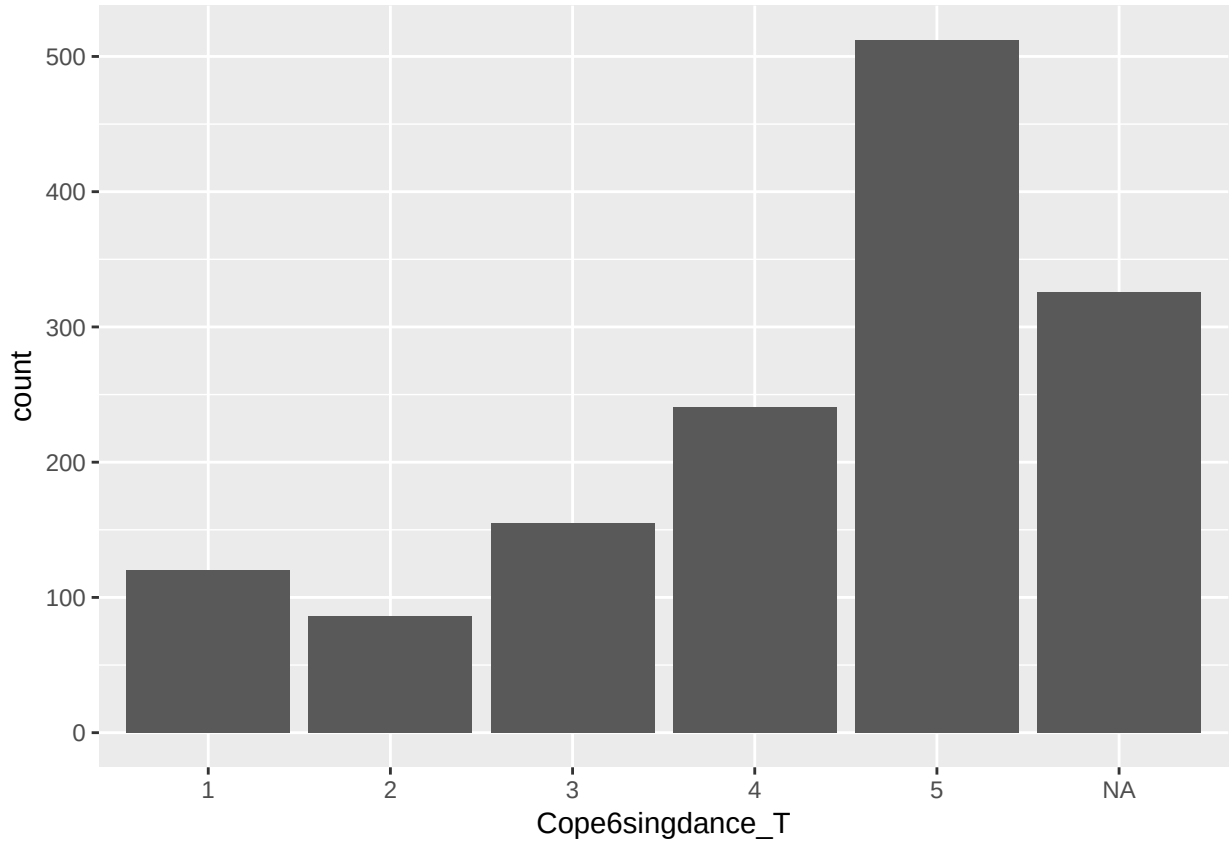

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```



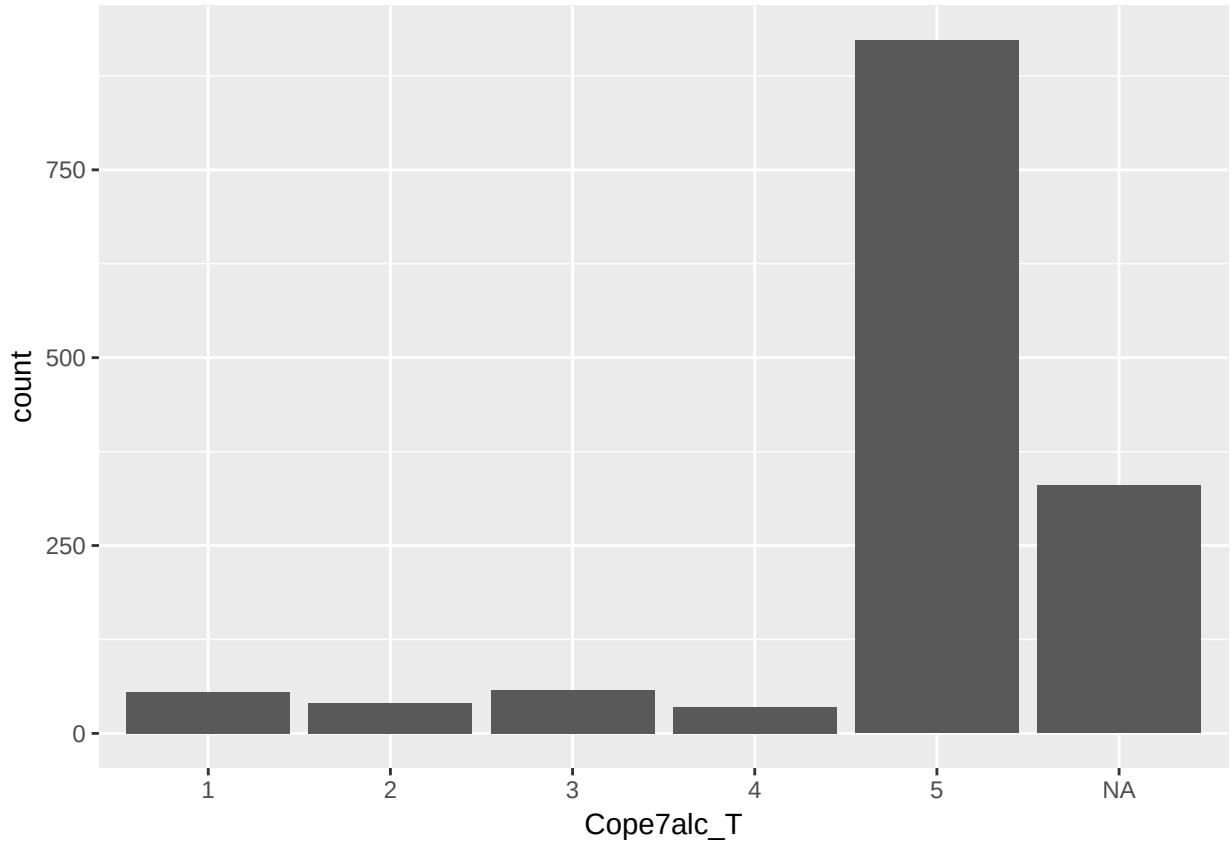

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```



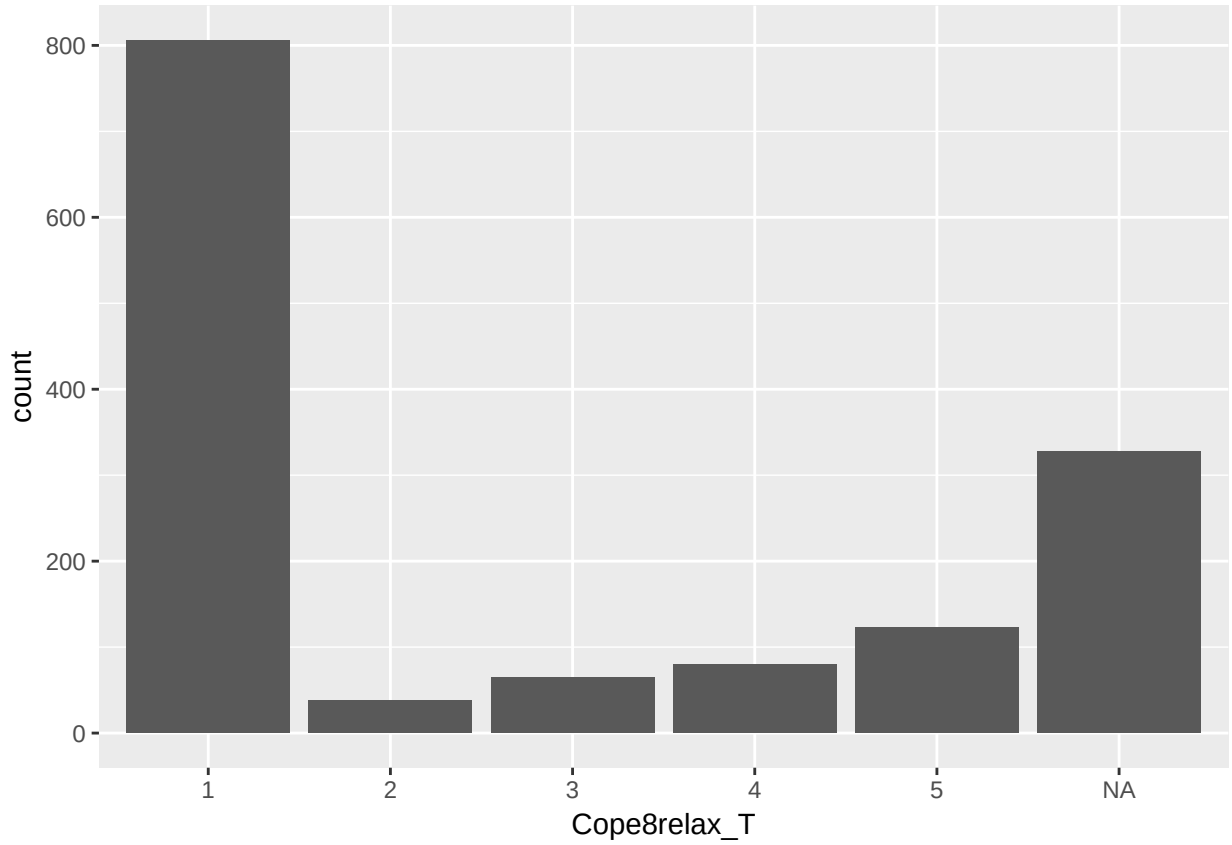

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```



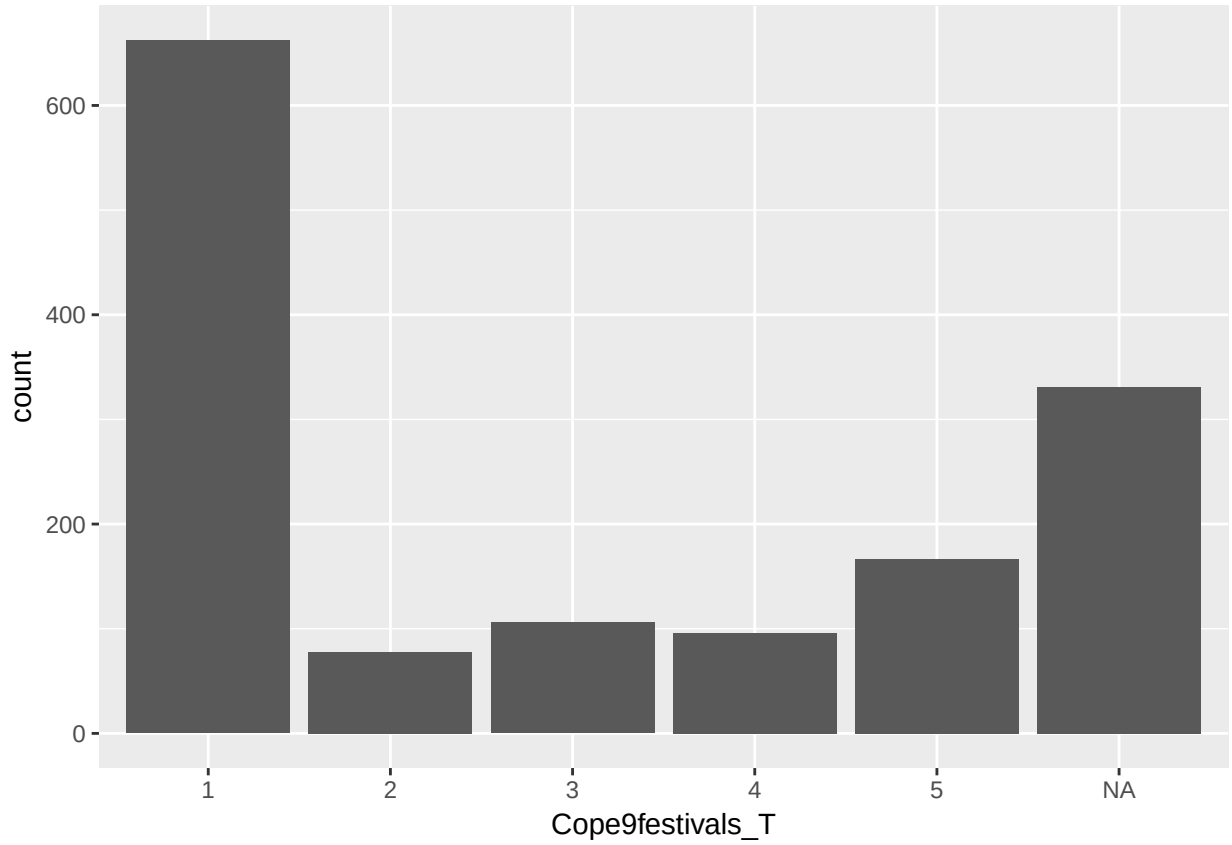

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```



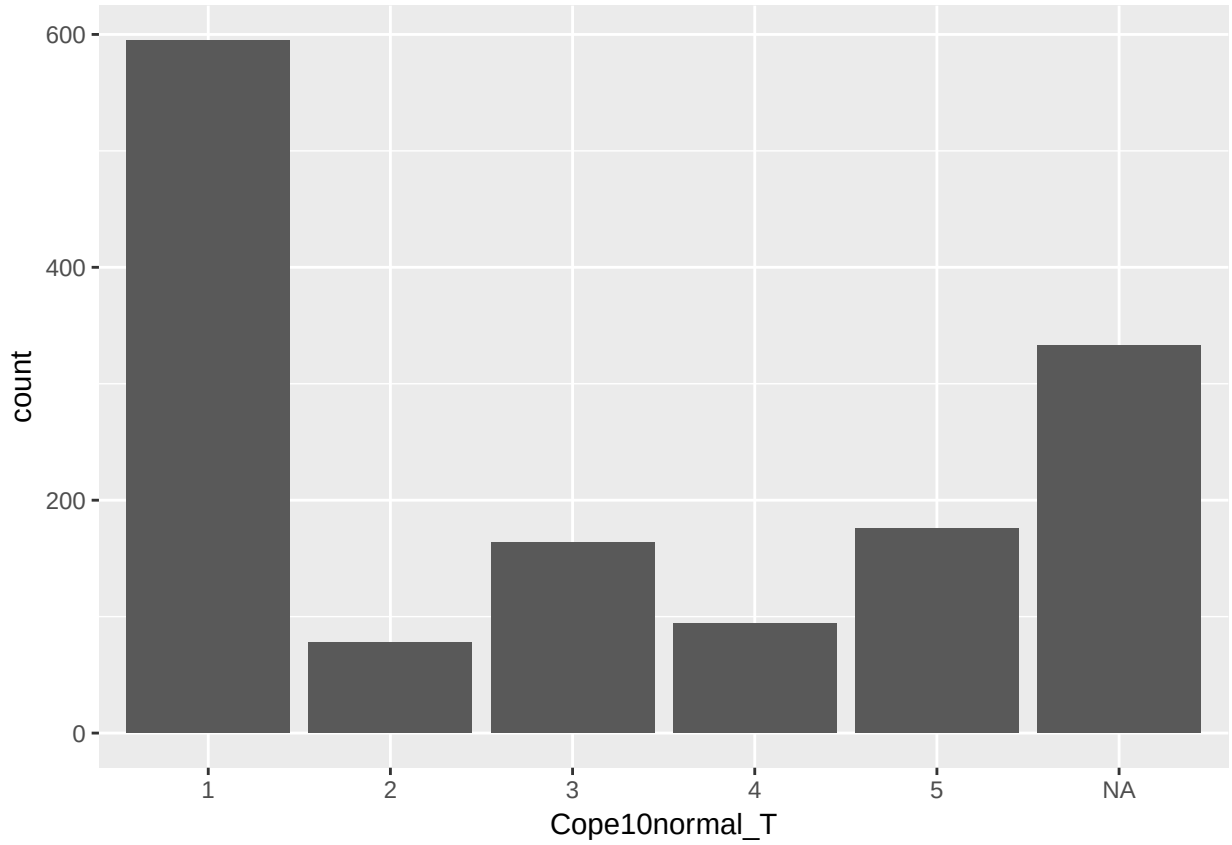

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```



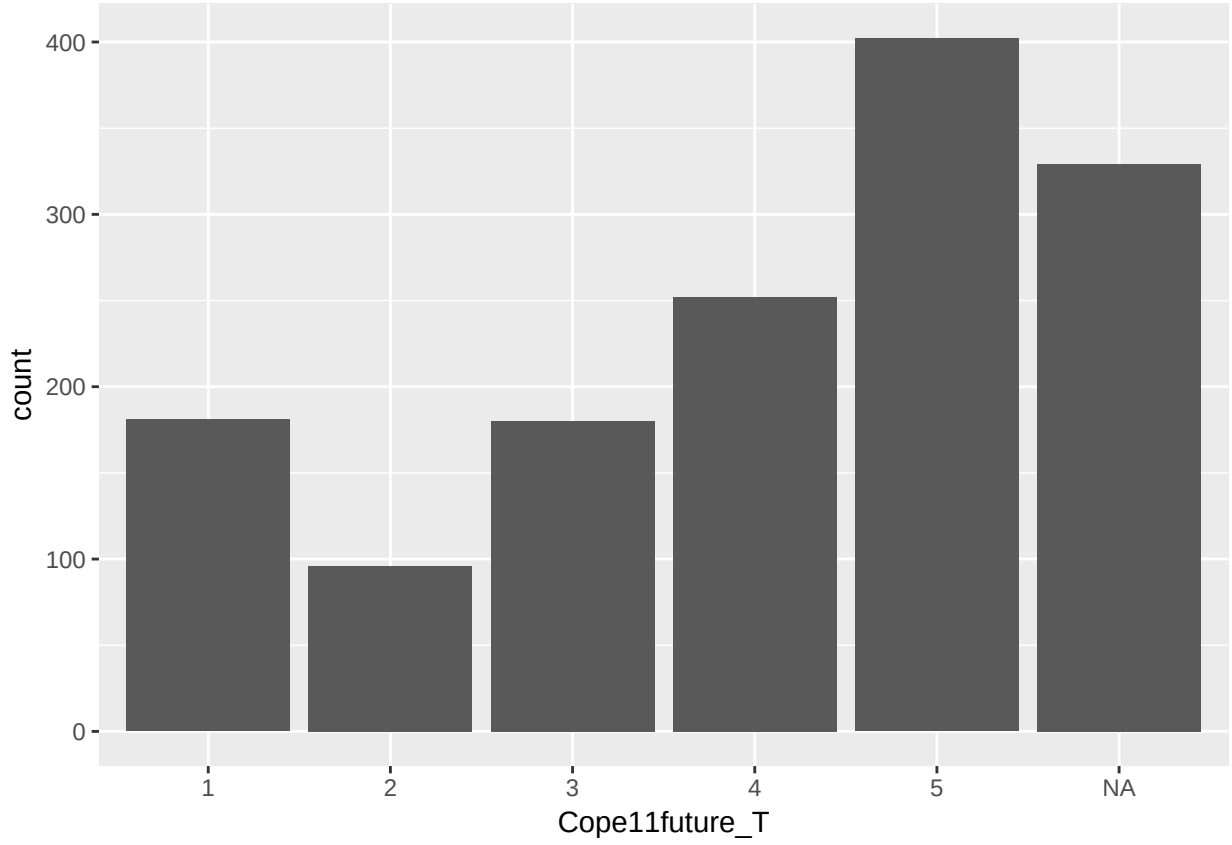

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```



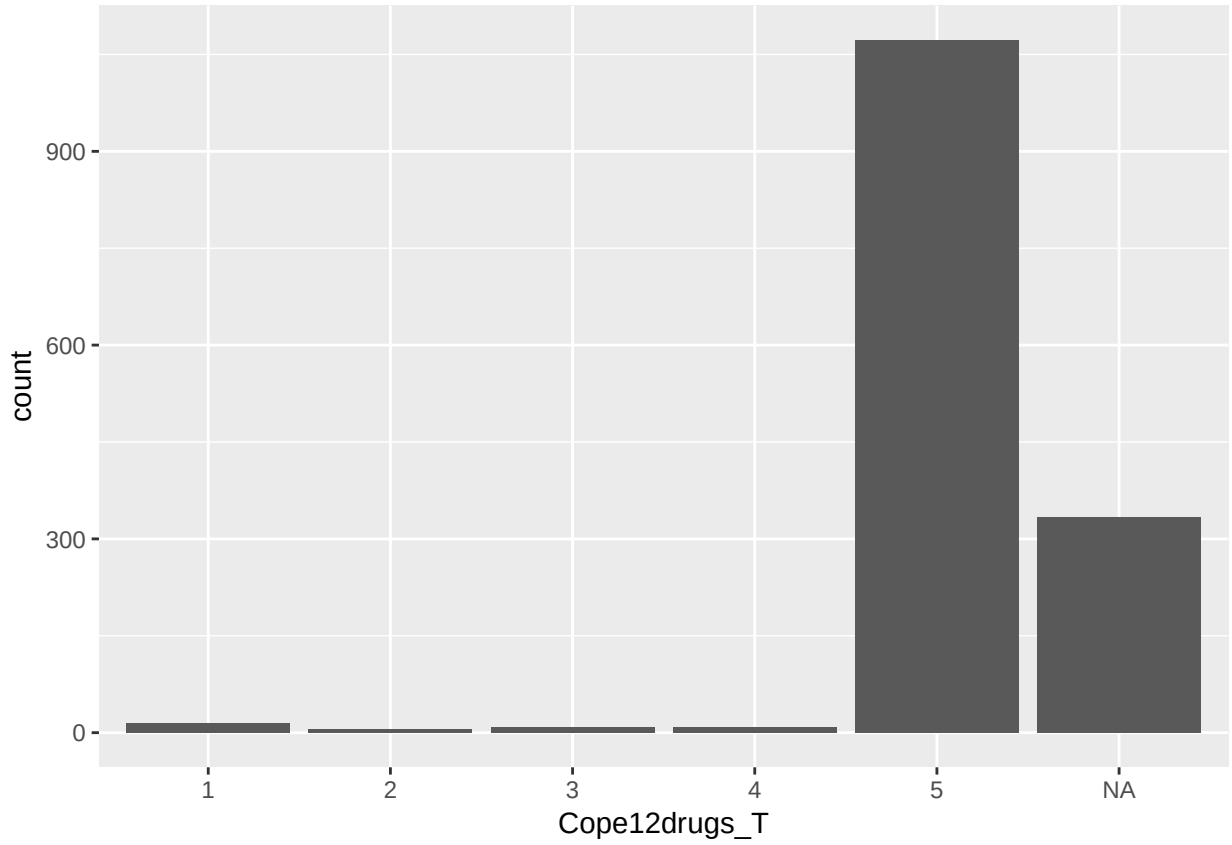

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```



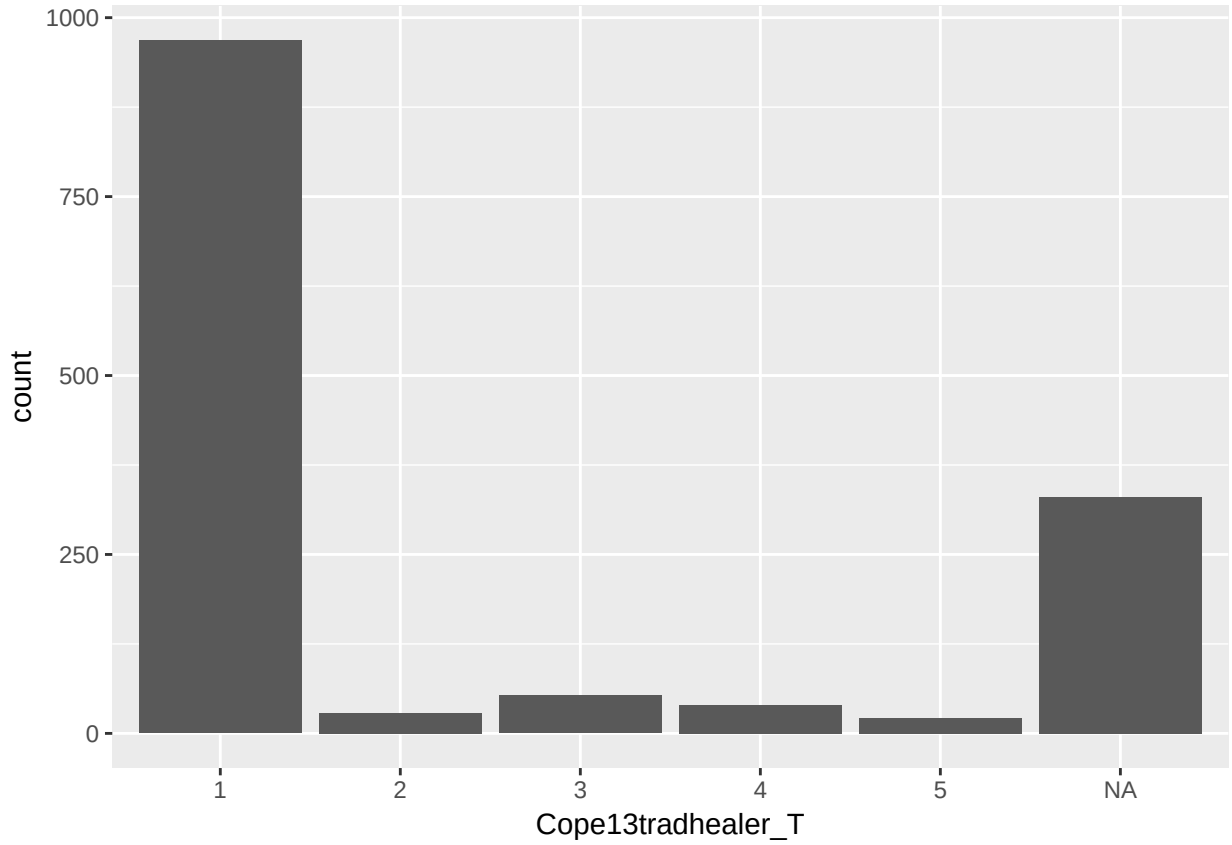

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```



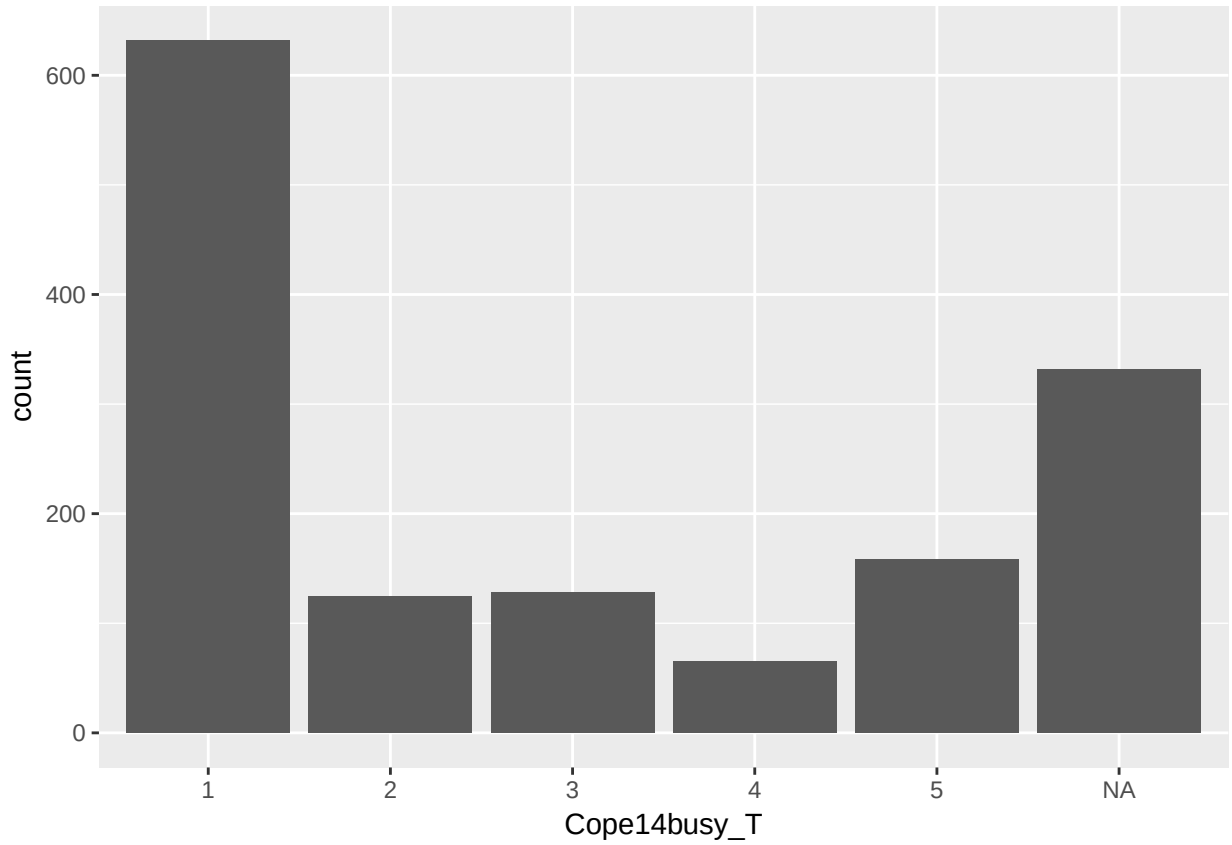

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```



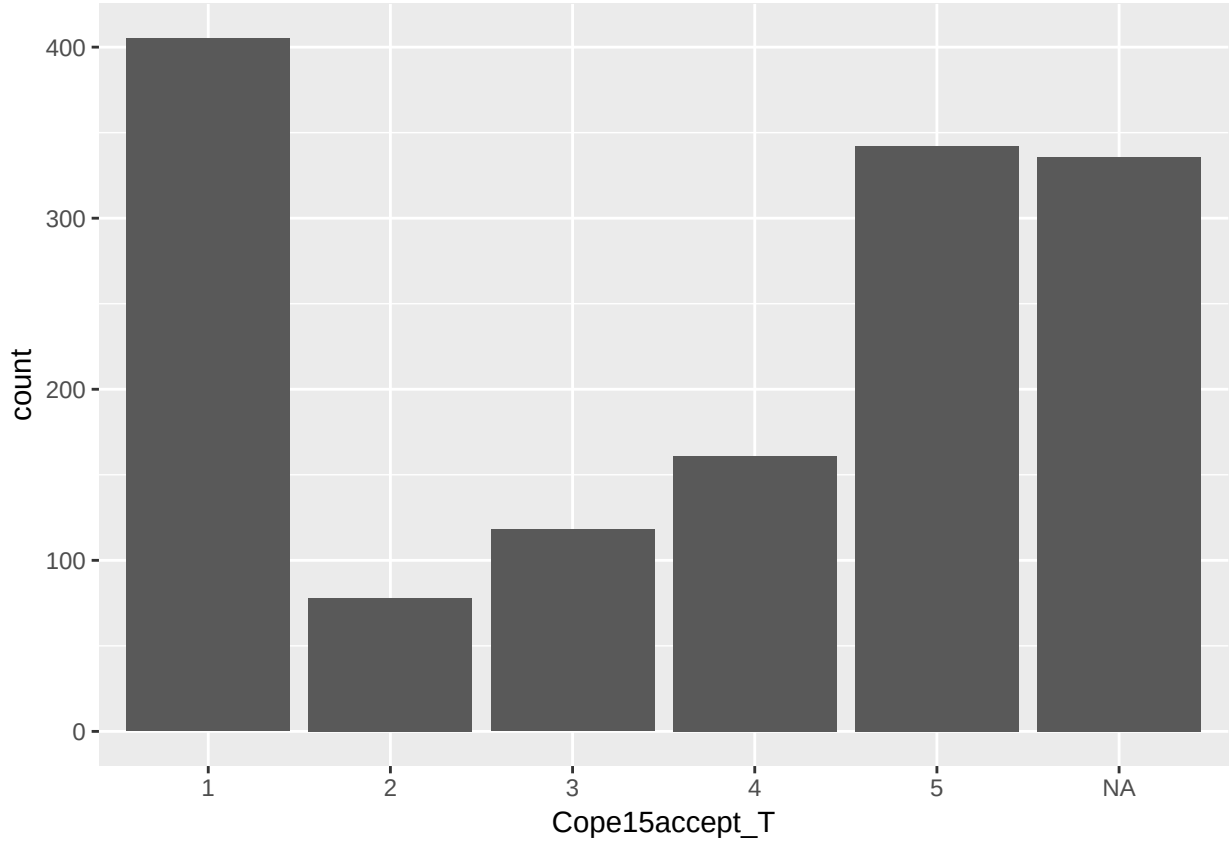

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```



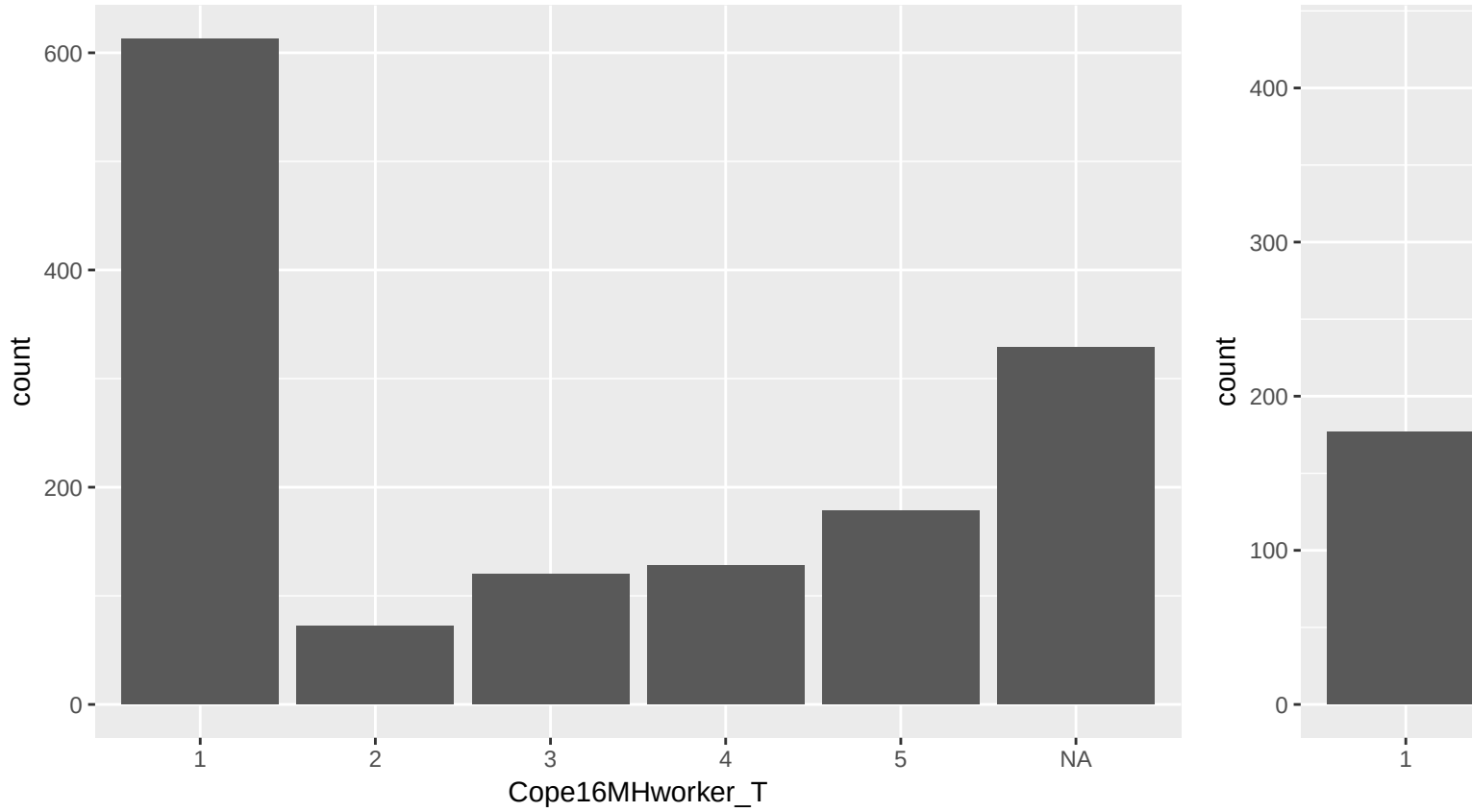

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```




```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```




```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```




```
cope_var_names <- cope_var_names[c(1:6, 8:11, 14:17)]
```

It looks like the drugs, alcohol, and traditional healing questions are not well-distributed, but the others are fine for analysis. We'll exclude those 3.

Now we'll get alpha values for our *entire sample* at time 1 to assess the quality of the mental health and behavioral scales used in the survery.

```
psych::alpha(data %>% filter(timePoint_factor == "1") %>% select(starts_with("T1Stress")))
```

```
##
## Reliability analysis
## Call: psych::alpha(x = data %>% filter(timePoint_factor == "1") %>%
##     select(starts_with("T1Stress")))
##
##   raw_alpha std.alpha G6(smc) average_r S/N  ase mean  sd
##       0.84      0.84    0.87       0.3 5.2 0.01 0.86 0.5
##
##  lower alpha upper     95% confidence boundaries
## 0.82 0.84 0.86
##
##  Reliability if an item is dropped:
##            raw_alpha std.alpha G6(smc) average_r S/N alpha se
## T1Stress1       0.83      0.82    0.85      0.30 4.7    0.011
## T1Stress2       0.82      0.82    0.85      0.29 4.6    0.012
## T1Stress3       0.82      0.82    0.85      0.29 4.4    0.012
## T1Stress5       0.84      0.84    0.86      0.32 5.2    0.010
## T1Stress6       0.84      0.84    0.86      0.32 5.2    0.011
## T1Stress7       0.82      0.82    0.84      0.29 4.5    0.012
## T1Stress8       0.82      0.81    0.84      0.28 4.3    0.012
## T1Stress9       0.83      0.83    0.86      0.30 4.7    0.011
## T1Stress10      0.84      0.83    0.86      0.31 4.9    0.011
## T1Stress11      0.83      0.83    0.85      0.30 4.7    0.011
## T1Stress12      0.83      0.83    0.86      0.30 4.8    0.011
```

```
## T1Stress4       0.84      0.83    0.85      0.31 5.0    0.010
##
##  Item statistics
##              n raw.r std.r r.cor r.drop mean   sd
## T1Stress1  478  0.63  0.63  0.60   0.54 1.36 0.78
## T1Stress2  478  0.68  0.66  0.64   0.58 1.13 0.86
## T1Stress3  477  0.72  0.71  0.68   0.63 0.91 0.88
## T1Stress5  477  0.40  0.45  0.39   0.31 0.34 0.68
## T1Stress6  474  0.39  0.45  0.37   0.32 0.20 0.53
## T1Stress7  473  0.72  0.69  0.69   0.63 0.90 0.93
## T1Stress8  477  0.77  0.75  0.75   0.69 0.90 0.90
## T1Stress9  475  0.61  0.60  0.55   0.51 1.49 0.81
## T1Stress10 473  0.56  0.56  0.49   0.45 0.57 0.83
## T1Stress11 470  0.59  0.60  0.55   0.49 0.47 0.78
## T1Stress12 478  0.61  0.59  0.53   0.49 1.22 0.88
## T1Stress4  416  0.51  0.51  0.47   0.38 0.79 0.86
##
## Non missing response frequency for each item
##                0    1    2 miss
## T1Stress1  0.19 0.26 0.55 0.00
## T1Stress2  0.31 0.25 0.44 0.00
## T1Stress3  0.43 0.22 0.34 0.01
## T1Stress5  0.78 0.10 0.12 0.01
## T1Stress6  0.86 0.08 0.06 0.01
## T1Stress7  0.48 0.13 0.39 0.01
## T1Stress8  0.46 0.17 0.36 0.01
## T1Stress9  0.20 0.11 0.69 0.01
## T1Stress10 0.65 0.14 0.22 0.01
## T1Stress11 0.71 0.11 0.18 0.02
## T1Stress12 0.30 0.19 0.52 0.00
## T1Stress4  0.50 0.22 0.29 0.13
```

```
psych::alpha(data %>% filter(timePoint_factor == "1") %>% select(T1_trauma_var_names[1:11]))
```

```
##
## Reliability analysis
## Call: psych::alpha(x = data %>% filter(timePoint_factor == "1") %>%
##     select(T1_trauma_var_names[1:11]))
##
##   raw_alpha std.alpha G6(smc) average_r S/N   ase mean  sd
##       0.64      0.64    0.67      0.14 1.8 0.024 0.52 0.2
##
##  lower alpha upper     95% confidence boundaries
## 0.59 0.64 0.68
##
##  Reliability if an item is dropped:
##                      raw_alpha std.alpha G6(smc) average_r S/N alpha se
## T1Trauma1EQ               0.64      0.65    0.68      0.16 1.9    0.025
## T1Trauma2hurricane        0.67      0.67    0.69      0.17 2.0    0.022
## T1Trauma3flood            0.63      0.63    0.67      0.15 1.7    0.024
## T1Trauma4disease          0.62      0.62    0.65      0.14 1.6    0.025
## T1Trauma5fire             0.61      0.61    0.64      0.13 1.6    0.026
## T1Trauma6Housedamage      0.59      0.60    0.63      0.13 1.5    0.027
## T1Trauma7Dismoved         0.59      0.60    0.63      0.13 1.5    0.027
## T1Trauma8Disinjury        0.57      0.58    0.60      0.12 1.4    0.028
## T1Trauma9Rubble           0.60      0.59    0.62      0.13 1.5    0.027
## T1Trauma10Faminjury       0.61      0.62    0.64      0.14 1.6    0.026
## T1Trauma11Famkilled       0.59      0.61    0.63      0.13 1.5    0.027
##
##  Item statistics
##                        n raw.r std.r r.cor r.drop mean   sd
```

```
## T1Trauma1EQ          478  0.18  0.31 0.144  0.116 0.98 0.14
## T1Trauma2hurricane   478  0.24  0.22 0.049  0.029 0.64 0.48
## T1Trauma3flood       477  0.40  0.39 0.263  0.201 0.66 0.47
## T1Trauma4disease     478  0.45  0.45 0.362  0.248 0.61 0.49
## T1Trauma5fire        478  0.49  0.51 0.418  0.331 0.22 0.41
## T1Trauma6Housedamage 478  0.55  0.54 0.485  0.387 0.71 0.46
## T1Trauma7Dismoved    475  0.56  0.55 0.498  0.378 0.58 0.49
## T1Trauma8Disinjury   478  0.62  0.64 0.624  0.482 0.23 0.42
## T1Trauma9Rubble      478  0.53  0.57 0.525  0.411 0.12 0.32
## T1Trauma10Faminjury  478  0.50  0.45 0.377  0.300 0.51 0.50
## T1Trauma11Famkilled  478  0.56  0.51 0.458  0.373 0.47 0.50
##
## Non missing response frequency for each item
##                         0    1 miss
## T1Trauma1EQ          0.02 0.98 0.00
## T1Trauma2hurricane   0.36 0.64 0.00
## T1Trauma3flood       0.34 0.66 0.01
## T1Trauma4disease     0.39 0.61 0.00
## T1Trauma5fire        0.78 0.22 0.00
## T1Trauma6Housedamage 0.29 0.71 0.00
## T1Trauma7Dismoved    0.42 0.58 0.01
## T1Trauma8Disinjury   0.77 0.23 0.00
## T1Trauma9Rubble      0.88 0.12 0.00
## T1Trauma10Faminjury  0.49 0.51 0.00
## T1Trauma11Famkilled  0.53 0.47 0.00
```

```
psych::alpha(data %>% filter(timePoint_factor == "1") %>% select(T1_trauma_var_names[12:21]))
```

```
##
## Reliability analysis
## Call: psych::alpha(x = data %>% filter(timePoint_factor == "1") %>%
##     select(T1_trauma_var_names[12:21]))
##
##   raw_alpha std.alpha G6(smc) average_r S/N   ase mean  sd
##       0.73      0.73    0.74      0.21 2.7 0.018 0.19 0.2
##
##  lower alpha upper     95% confidence boundaries
## 0.69 0.73 0.76
##
##  Reliability if an item is dropped:
##                                  raw_alpha std.alpha G6(smc) average_r S/N
## T1Trauma12Transaccid                  0.67      0.69    0.69      0.19 2.2
## T1Trauma13Otheraccid                  0.69      0.69    0.70      0.20 2.3
## T1Trauma14Physassault                 0.71      0.72    0.72      0.22 2.5
## T1Trauma15sexassault                  0.72      0.72    0.73      0.22 2.6
## T1Trauma16Combatpolitviol             0.71      0.71    0.72      0.22 2.5
## T1Trauma17Kidnapping                  0.73      0.74    0.75      0.24 2.9
## T1Trauma18Lifethreateningillness      0.75      0.74    0.75      0.24 2.9
## T1Trauma19Violdeathclose              0.69      0.70    0.71      0.21 2.4
## T1Trauma20Violdeathother              0.69      0.70    0.70      0.20 2.3
## T1Trauma21Harmdeathyoucaused          0.67      0.68    0.68      0.19 2.1
##                                  alpha se
## T1Trauma12Transaccid                0.021
## T1Trauma13Otheraccid                0.020
## T1Trauma14Physassault               0.018
## T1Trauma15sexassault                0.018
## T1Trauma16Combatpolitviol           0.019
## T1Trauma17Kidnapping                0.018
## T1Trauma18Lifethreateningillness    0.016
## T1Trauma19Violdeathclose            0.020
## T1Trauma20Violdeathother            0.020
```

```
## T1Trauma21Harmdeathyoucaused        0.022
##
##  Item statistics
##                                    n raw.r std.r r.cor r.drop  mean   sd
## T1Trauma12Transaccid             477  0.69  0.67  0.64   0.55 0.254 0.44
## T1Trauma13Otheraccid             476  0.62  0.63  0.59   0.50 0.120 0.33
## T1Trauma14Physassault            477  0.53  0.50  0.41   0.35 0.258 0.44
## T1Trauma15sexassault             478  0.41  0.47  0.37   0.29 0.079 0.27
## T1Trauma16Combatpolitviol        478  0.48  0.53  0.45   0.37 0.082 0.27
## T1Trauma17Kidnapping             478  0.23  0.36  0.21   0.18 0.015 0.12
## T1Trauma18Lifethreateningillness 478  0.42  0.35  0.21   0.19 0.400 0.49
## T1Trauma19Violdeathclose         478  0.62  0.58  0.51   0.45 0.264 0.44
## T1Trauma20Violdeathother         477  0.60  0.61  0.56   0.47 0.134 0.34
## T1Trauma21Harmdeathyoucaused     478  0.72  0.71  0.70   0.59 0.255 0.44
##
## Non missing response frequency for each item
##                                     0    1 miss
## T1Trauma12Transaccid             0.75 0.25 0.01
## T1Trauma13Otheraccid             0.88 0.12 0.01
## T1Trauma14Physassault            0.74 0.26 0.01
## T1Trauma15sexassault             0.92 0.08 0.00
## T1Trauma16Combatpolitviol        0.92 0.08 0.00
## T1Trauma17Kidnapping             0.99 0.01 0.00
## T1Trauma18Lifethreateningillness 0.60 0.40 0.00
## T1Trauma19Violdeathclose         0.74 0.26 0.00
## T1Trauma20Violdeathother         0.87 0.13 0.01
## T1Trauma21Harmdeathyoucaused     0.74 0.26 0.00
```

```
psych::alpha(data %>% filter(timePoint_factor == "1") %>% select(T1DP1Supplykit, T1DP2Meds,T1DP3Foodwater, T1D
```

```
##
## Reliability analysis
## Call: psych::alpha(x = data %>% filter(timePoint_factor == "1") %>%
##     select(T1DP1Supplykit, T1DP2Meds, T1DP3Foodwater, T1DP4docs,
##         T1DP5Securedwelling, T1DP6Raiseditems, T1DP7Divertwater,
##         T1DP8Removedobjects, T1DP9Famplan, T1DP10Evacplan, T1DP11Reconnectplan,
##         T1DP12Talkchildren, T1DP13Radiotvcomp, T1DP14Firstaid,
##         T1DP15Cleanwater, T1DP16Disinfect, T1DP17Sanitation,
##         T1DP20Safeplaceflood, T1DP21riskysafecommunity, T1DP22Helpfriends),
##     cumulative = TRUE)
##
##   raw_alpha std.alpha G6(smc) average_r S/N    ase mean  sd
##       0.92      0.91    0.93      0.34  10 0.0053   11 5.6
##
##  lower alpha upper     95% confidence boundaries
## 0.91 0.92 0.93
##
##  Reliability if an item is dropped:
##                          raw_alpha std.alpha G6(smc) average_r  S/N
## T1DP1Supplykit                0.91      0.90    0.93      0.33  9.5
## T1DP2Meds                     0.91      0.90    0.93      0.33  9.4
## T1DP3Foodwater                0.91      0.90    0.93      0.33  9.4
## T1DP4docs                     0.91      0.91    0.93      0.34  9.7
## T1DP5Securedwelling           0.91      0.91    0.93      0.33  9.6
## T1DP6Raiseditems              0.91      0.90    0.93      0.33  9.5
## T1DP7Divertwater              0.92      0.91    0.93      0.35 10.1
## T1DP8Removedobjects           0.91      0.91    0.93      0.34  9.8
## T1DP9Famplan                  0.91      0.91    0.93      0.34  9.6
## T1DP10Evacplan                0.91      0.91    0.93      0.34  9.6
## T1DP11Reconnectplan           0.91      0.91    0.93      0.34  9.6
## T1DP12Talkchildren            0.91      0.90    0.93      0.33  9.4
```

```
## T1DP13Radiotvcomp            0.92      0.91    0.94      0.36 10.6
## T1DP14Firstaid               0.92      0.91    0.93      0.36 10.6
## T1DP15Cleanwater             0.92      0.91    0.93      0.35 10.2
## T1DP16Disinfect              0.91      0.91    0.93      0.34  9.6
## T1DP17Sanitation             0.91      0.90    0.93      0.33  9.5
## T1DP20Safeplaceflood         0.91      0.91    0.93      0.33  9.6
## T1DP21riskysafecommunity     0.92      0.92    0.94      0.37 11.0
## T1DP22Helpfriends            0.91      0.90    0.93      0.33  9.5
##                          alpha se
## T1DP1Supplykit              0.0057
## T1DP2Meds                   0.0058
## T1DP3Foodwater              0.0058
## T1DP4docs                   0.0056
## T1DP5Securedwelling         0.0057
## T1DP6Raiseditems            0.0057
## T1DP7Divertwater            0.0053
## T1DP8Removedobjects         0.0055
## T1DP9Famplan                0.0056
## T1DP10Evacplan              0.0056
## T1DP11Reconnectplan         0.0056
## T1DP12Talkchildren          0.0057
## T1DP13Radiotvcomp           0.0053
## T1DP14Firstaid              0.0052
## T1DP15Cleanwater            0.0053
## T1DP16Disinfect             0.0056
## T1DP17Sanitation            0.0056
## T1DP20Safeplaceflood        0.0057
## T1DP21riskysafecommunity    0.0053
## T1DP22Helpfriends           0.0057
##
##  Item statistics
##                            n raw.r std.r r.cor r.drop  mean   sd
## T1DP1Supplykit           480  0.70  0.69  0.68   0.65 0.613 0.49
## T1DP2Meds                479  0.74  0.73  0.72   0.69 0.622 0.49
## T1DP3Foodwater           477  0.75  0.75  0.75   0.71 0.704 0.46
## T1DP4docs                475  0.63  0.64  0.62   0.59 0.842 0.37
## T1DP5Securedwelling      476  0.68  0.68  0.67   0.64 0.710 0.45
## T1DP6Raiseditems         478  0.71  0.71  0.70   0.67 0.545 0.50
## T1DP7Divertwater         478  0.51  0.51  0.48   0.44 0.556 0.50
## T1DP8Removedobjects      477  0.61  0.61  0.59   0.55 0.551 0.50
## T1DP9Famplan             473  0.67  0.66  0.65   0.62 0.419 0.49
## T1DP10Evacplan           474  0.67  0.67  0.66   0.63 0.354 0.48
## T1DP11Reconnectplan      472  0.68  0.67  0.66   0.63 0.328 0.47
## T1DP12Talkchildren       477  0.72  0.72  0.71   0.68 0.445 0.49
## T1DP13Radiotvcomp        473  0.32  0.35  0.29   0.27 0.882 0.32
## T1DP14Firstaid           474  0.37  0.37  0.31   0.29 0.270 0.44
## T1DP15Cleanwater         474  0.47  0.49  0.45   0.41 0.778 0.42
## T1DP16Disinfect          476  0.66  0.66  0.66   0.61 0.752 0.43
## T1DP17Sanitation         478  0.69  0.70  0.70   0.64 0.747 0.44
## T1DP20Safeplaceflood     466  0.68  0.68  0.66   0.64 0.436 0.50
## T1DP21riskysafecommunity 479  0.19  0.23  0.17   0.16 0.044 0.20
## T1DP22Helpfriends        476  0.71  0.70  0.69   0.66 0.489 0.50
##
## Non missing response frequency for each item
##                               0 0.44468085106383 0.545073375262054    1 miss
## T1DP1Supplykit             0.39              0.00                 0 0.61 0.00
## T1DP2Meds                  0.38              0.00                 0 0.62 0.00
## T1DP3Foodwater             0.30              0.00                 0 0.70 0.01
## T1DP4docs                  0.16              0.00                 0 0.84 0.01
## T1DP5Securedwelling        0.29              0.00                 0 0.71 0.01
```

```
## T1DP6Raiseditems         0.45             0.00                 0 0.54 0.00
## T1DP7Divertwater         0.44             0.00                 0 0.56 0.00
## T1DP8Removedobjects      0.45             0.00                 0 0.55 0.01
## T1DP9Famplan             0.58             0.00                 0 0.42 0.01
## T1DP10Evacplan           0.65             0.00                 0 0.35 0.01
## T1DP11Reconnectplan      0.67             0.00                 0 0.33 0.02
## T1DP12Talkchildren       0.55             0.01                 0 0.44 0.01
## T1DP13Radiotvcomp        0.12             0.00                 0 0.88 0.01
## T1DP14Firstaid           0.73             0.00                 0 0.27 0.01
## T1DP15Cleanwater         0.22             0.00                 0 0.78 0.01
## T1DP16Disinfect          0.25             0.00                 0 0.75 0.01
## T1DP17Sanitation         0.25             0.00                 0 0.75 0.00
## T1DP20Safeplaceflood     0.56             0.00                 0 0.44 0.03
## T1DP21riskysafecommunity 0.96             0.00                 0 0.04 0.00
## T1DP22Helpfriends        0.51             0.00                 0 0.49 0.01
```

```
psych::alpha(data %>% filter(timePoint_factor == "1") %>% select(starts_with("T1Dep")))
```

```
##
## Reliability analysis
## Call: psych::alpha(x = data %>% filter(timePoint_factor == "1") %>%
##     select(starts_with("T1Dep")))
##
##   raw_alpha std.alpha G6(smc) average_r S/N    ase mean   sd
##       0.93      0.93    0.94      0.51  14 0.0045  1.9 0.73
##
##  lower alpha upper     95% confidence boundaries
## 0.92 0.93 0.94
##
##  Reliability if an item is dropped:
##         raw_alpha std.alpha G6(smc) average_r S/N alpha se
## T1Dep1       0.93      0.93    0.94      0.53  14   0.0046
## T1Dep2       0.93      0.93    0.93      0.51  13   0.0049
## T1Dep3       0.93      0.93    0.94      0.52  13   0.0047
## T1Dep4       0.93      0.93    0.94      0.52  13   0.0048
## T1Dep5       0.93      0.93    0.93      0.51  12   0.0050
## T1Dep6       0.93      0.92    0.93      0.51  12   0.0050
## T1Dep7       0.93      0.93    0.93      0.51  12   0.0050
## T1Dep8       0.92      0.92    0.93      0.50  12   0.0051
## T1Dep9       0.93      0.93    0.93      0.51  13   0.0050
## T1Dep10      0.93      0.93    0.93      0.51  13   0.0049
## T1Dep11      0.93      0.93    0.93      0.52  13   0.0048
## T1Dep12      0.93      0.93    0.94      0.53  13   0.0047
## T1Dep13      0.93      0.93    0.93      0.51  12   0.0050
##
##  Item statistics
##           n raw.r std.r r.cor r.drop mean   sd
## T1Dep1  477  0.62  0.63  0.59   0.56  2.1 0.90
## T1Dep2  471  0.76  0.77  0.76   0.72  2.1 0.95
## T1Dep3  472  0.68  0.68  0.64   0.61  2.6 0.99
## T1Dep4  471  0.71  0.71  0.67   0.65  1.8 1.01
## T1Dep5  474  0.79  0.79  0.77   0.75  1.8 0.95
## T1Dep6  476  0.80  0.80  0.79   0.76  2.1 0.99
## T1Dep7  476  0.79  0.79  0.78   0.74  1.9 1.02
## T1Dep8  474  0.82  0.82  0.81   0.78  2.1 0.97
## T1Dep9  472  0.78  0.77  0.75   0.73  1.8 1.00
## T1Dep10 469  0.75  0.75  0.72   0.70  1.7 1.02
## T1Dep11 473  0.71  0.71  0.68   0.65  1.6 0.98
## T1Dep12 475  0.65  0.65  0.62   0.59  1.5 0.95
## T1Dep13 476  0.80  0.79  0.78   0.75  1.9 1.06
##
```

```
## Non missing response frequency for each item
##            1    2    3    4 miss
## T1Dep1  0.28 0.44 0.20 0.08 0.01
## T1Dep2  0.32 0.35 0.24 0.08 0.02
## T1Dep3  0.14 0.33 0.30 0.23 0.02
## T1Dep4  0.57 0.18 0.16 0.09 0.02
## T1Dep5  0.51 0.26 0.15 0.07 0.01
## T1Dep6  0.34 0.33 0.22 0.11 0.01
## T1Dep7  0.45 0.26 0.19 0.10 0.01
## T1Dep8  0.34 0.32 0.25 0.09 0.01
## T1Dep9  0.52 0.22 0.17 0.09 0.02
## T1Dep10 0.60 0.16 0.14 0.09 0.02
## T1Dep11 0.66 0.16 0.09 0.09 0.01
## T1Dep12 0.73 0.11 0.08 0.08 0.01
## T1Dep13 0.49 0.20 0.20 0.11 0.01
```

```
psych::alpha(data %>% filter(timePoint_factor == "1") %>% select(matches("^T1PTSD.*([0-9]|b)$"), -T1PTSD18))
```

```
##
## Reliability analysis
## Call: psych::alpha(x = data %>% filter(timePoint_factor == "1") %>%
##     select(matches("^T1PTSD.*([0-9]|b)$"), -T1PTSD18))
##
##   raw_alpha std.alpha G6(smc) average_r S/N    ase mean   sd
##       0.96      0.96    0.99      0.45  27 0.0025    1 0.94
##
##  lower alpha upper     95% confidence boundaries
## 0.95 0.96 0.96
##
##  Reliability if an item is dropped:
##           raw_alpha std.alpha G6(smc) average_r S/N alpha se
## T1PTSD1        0.96      0.96    0.99      0.45  27   0.0026
## T1PTSD1b       0.96      0.96    0.99      0.45  27   0.0025
## T1PTSD2        0.96      0.96    0.99      0.45  27   0.0026
## T1PTSD2b       0.96      0.96    0.99      0.45  27   0.0026
## T1PTSD3        0.96      0.96    0.99      0.45  27   0.0026
## T1PTSD3b       0.96      0.96    0.99      0.45  27   0.0026
## T1PTSD4        0.96      0.96    0.99      0.44  26   0.0026
## T1PTSD4b       0.96      0.96    0.99      0.44  26   0.0027
## T1PTSD5        0.96      0.96    0.99      0.44  26   0.0026
## T1PTSD5b       0.96      0.96    0.99      0.44  26   0.0026
## T1PTSD6        0.96      0.96    0.99      0.45  27   0.0026
## T1PTSD6b       0.96      0.96    0.99      0.44  26   0.0026
## T1PTSD7        0.96      0.96    0.99      0.45  27   0.0026
## T1PTSD7b       0.96      0.96    0.99      0.44  26   0.0026
## T1PTSD8        0.96      0.96    0.99      0.45  27   0.0026
## T1PTSD8b       0.96      0.96    0.99      0.45  27   0.0025
## T1PTSD9        0.96      0.96    0.99      0.44  26   0.0026
## T1PTSD9b       0.96      0.96    0.99      0.44  26   0.0026
## T1PTSD10       0.96      0.96    0.99      0.45  27   0.0025
## T1PTSD10b      0.96      0.96    0.99      0.45  27   0.0025
## T1PTSD11       0.96      0.96    0.99      0.45  27   0.0026
## T1PTSD11b      0.96      0.96    0.99      0.45  27   0.0026
## T1PTSD12       0.96      0.96    0.99      0.44  26   0.0026
## T1PTSD12b      0.96      0.96    0.99      0.44  26   0.0026
## T1PTSD13       0.96      0.96    0.99      0.45  27   0.0026
## T1PTSD13b      0.96      0.96    0.99      0.44  26   0.0026
## T1PTSD14       0.96      0.96    0.99      0.44  26   0.0026
## T1PTSD14b      0.96      0.96    0.99      0.44  26   0.0026
## T1PTSD15       0.96      0.96    0.99      0.45  27   0.0026
## T1PTSD15b      0.96      0.96    0.99      0.45  27   0.0026
```

```
## T1PTSD16       0.96      0.96    0.99      0.44  26   0.0026
## T1PTSD16b      0.96      0.96    0.99      0.44  26   0.0026
## T1PTSD17       0.96      0.96    0.99      0.44  26   0.0026
## T1PTSD17b      0.96      0.96    0.99      0.45  27   0.0026
##
##  Item statistics
##              n raw.r std.r r.cor r.drop mean   sd
## T1PTSD1    478  0.58  0.57  0.57   0.56 0.97 1.04
## T1PTSD1b   479  0.56  0.55  0.54   0.52 1.88 1.94
## T1PTSD2    477  0.66  0.66  0.66   0.64 0.82 0.96
## T1PTSD2b   479  0.66  0.65  0.65   0.62 1.57 1.84
## T1PTSD3    477  0.68  0.68  0.68   0.66 0.72 0.92
## T1PTSD3b   479  0.65  0.64  0.64   0.62 1.51 1.85
## T1PTSD4    476  0.80  0.79  0.79   0.78 0.98 1.00
## T1PTSD4b   479  0.79  0.78  0.77   0.76 1.95 1.91
## T1PTSD5    476  0.70  0.71  0.71   0.69 0.68 0.96
## T1PTSD5b   479  0.73  0.73  0.73   0.70 1.22 1.71
## T1PTSD6    477  0.67  0.68  0.68   0.65 0.60 0.94
## T1PTSD6b   479  0.71  0.71  0.71   0.68 1.10 1.70
## T1PTSD7    476  0.65  0.67  0.66   0.64 0.56 0.88
## T1PTSD7b   479  0.70  0.70  0.70   0.67 1.09 1.70
## T1PTSD8    477  0.57  0.59  0.58   0.55 0.49 0.89
## T1PTSD8b   479  0.59  0.60  0.60   0.55 0.87 1.58
## T1PTSD9    477  0.75  0.75  0.75   0.73 0.65 0.96
## T1PTSD9b   479  0.74  0.75  0.74   0.72 1.36 1.91
## T1PTSD10   477  0.51  0.53  0.53   0.49 0.24 0.63
## T1PTSD10b 479  0.54  0.56  0.56   0.51 0.48 1.23
## T1PTSD11   477  0.69  0.68  0.68   0.67 0.79 1.04
## T1PTSD11b 479  0.68  0.67  0.67   0.65 1.57 2.00
## T1PTSD12   477  0.76  0.75  0.75   0.74 0.84 1.09
## T1PTSD12b 479  0.74  0.73  0.72   0.71 1.61 1.97
## T1PTSD13   477  0.67  0.68  0.68   0.66 0.57 0.97
## T1PTSD13b 479  0.70  0.70  0.70   0.67 1.01 1.71
## T1PTSD14   477  0.71  0.72  0.72   0.70 0.58 0.94
## T1PTSD14b 479  0.72  0.72  0.72   0.70 1.13 1.76
## T1PTSD15   476  0.65  0.65  0.64   0.63 0.57 0.91
## T1PTSD15b 479  0.66  0.64  0.64   0.62 1.13 1.75
## T1PTSD16   476  0.74  0.73  0.73   0.72 0.70 1.03
## T1PTSD16b 479  0.74  0.73  0.73   0.71 1.30 1.87
## T1PTSD17   477  0.71  0.71  0.71   0.70 0.78 0.99
## T1PTSD17b 479  0.69  0.68  0.68   0.66 1.62 1.96
##
## Non missing response frequency for each item
##                0    1    2    3    4    5 miss
## T1PTSD1    0.47 0.19 0.25 0.09 0.00 0.00 0.00
## T1PTSD1b   0.47 0.02 0.10 0.06 0.27 0.08 0.00
## T1PTSD2    0.51 0.23 0.20 0.06 0.00 0.00 0.01
## T1PTSD2b   0.51 0.06 0.09 0.07 0.20 0.06 0.00
## T1PTSD3    0.56 0.21 0.20 0.04 0.00 0.00 0.01
## T1PTSD3b   0.56 0.02 0.10 0.07 0.19 0.06 0.00
## T1PTSD4    0.43 0.25 0.24 0.08 0.00 0.00 0.01
## T1PTSD4b   0.43 0.04 0.13 0.08 0.24 0.10 0.00
## T1PTSD5    0.61 0.16 0.17 0.06 0.00 0.00 0.01
## T1PTSD5b   0.61 0.04 0.11 0.06 0.13 0.05 0.00
## T1PTSD6    0.67 0.13 0.15 0.06 0.00 0.00 0.01
## T1PTSD6b   0.67 0.02 0.08 0.05 0.13 0.05 0.00
## T1PTSD7    0.66 0.15 0.15 0.04 0.00 0.00 0.01
## T1PTSD7b   0.66 0.03 0.09 0.04 0.13 0.05 0.00
## T1PTSD8    0.73 0.11 0.11 0.05 0.00 0.00 0.01
## T1PTSD8b   0.73 0.04 0.06 0.03 0.10 0.04 0.00
```

```
## T1PTSD9   0.63 0.15 0.15 0.06 0.00 0.00 0.01
## T1PTSD9b  0.63 0.01 0.07 0.03 0.16 0.09 0.00
## T1PTSD10  0.85 0.08 0.05 0.02 0.00 0.00 0.01
## T1PTSD10b 0.85 0.01 0.04 0.02 0.05 0.02 0.00
## T1PTSD11  0.57 0.17 0.17 0.09 0.00 0.00 0.01
## T1PTSD11b 0.57 0.03 0.08 0.05 0.14 0.14 0.00
## T1PTSD12  0.56 0.15 0.17 0.12 0.00 0.00 0.01
## T1PTSD12b 0.56 0.02 0.06 0.07 0.17 0.11 0.00
## T1PTSD13  0.70 0.12 0.11 0.08 0.00 0.00 0.01
## T1PTSD13b 0.70 0.04 0.05 0.04 0.10 0.07 0.00
## T1PTSD14  0.68 0.13 0.14 0.06 0.00 0.00 0.01
## T1PTSD14b 0.68 0.01 0.08 0.05 0.12 0.07 0.00
## T1PTSD15  0.67 0.15 0.13 0.05 0.00 0.00 0.01
## T1PTSD15b 0.67 0.02 0.07 0.05 0.12 0.06 0.00
## T1PTSD16  0.63 0.13 0.15 0.09 0.00 0.00 0.01
## T1PTSD16b 0.63 0.02 0.07 0.05 0.14 0.09 0.00
## T1PTSD17  0.55 0.20 0.17 0.08 0.00 0.00 0.01
## T1PTSD17b 0.55 0.01 0.09 0.06 0.16 0.12 0.00
```

```
psych::alpha(data %>% filter(timePoint_factor == "1") %>% select(starts_with("T1Anx")))
```

```
##
## Reliability analysis
## Call: psych::alpha(x = data %>% filter(timePoint_factor == "1") %>%
##     select(starts_with("T1Anx")))
##
##   raw_alpha std.alpha G6(smc) average_r S/N   ase mean   sd
##       0.94      0.94    0.95      0.41  15 0.004 0.74 0.66
##
##  lower alpha upper     95% confidence boundaries
## 0.93 0.94 0.95
##
##  Reliability if an item is dropped:
##         raw_alpha std.alpha G6(smc) average_r S/N alpha se
## T1Anx1       0.94      0.94    0.95      0.42  15   0.0040
## T1Anx2       0.93      0.93    0.95      0.41  14   0.0042
## T1Anx3       0.93      0.93    0.95      0.41  14   0.0042
## T1Anx4       0.93      0.93    0.95      0.41  14   0.0043
## T1Anx5       0.94      0.93    0.95      0.42  14   0.0041
## T1Anx6       0.93      0.93    0.95      0.41  14   0.0043
## T1Anx7       0.93      0.93    0.95      0.41  14   0.0043
## T1Anx8       0.93      0.93    0.95      0.41  14   0.0043
## T1Anx9       0.93      0.93    0.95      0.41  14   0.0042
## T1Anx10      0.94      0.93    0.95      0.41  14   0.0042
## T1Anx11      0.93      0.93    0.95      0.41  14   0.0043
## T1Anx12      0.93      0.93    0.95      0.41  14   0.0043
## T1Anx13      0.93      0.93    0.95      0.41  14   0.0043
## T1Anx14      0.93      0.93    0.95      0.41  14   0.0043
## T1Anx15      0.93      0.93    0.95      0.41  14   0.0042
## T1Anx16      0.94      0.94    0.95      0.42  15   0.0039
## T1Anx17      0.94      0.94    0.95      0.42  15   0.0040
## T1Anx18      0.94      0.94    0.95      0.43  15   0.0040
## T1Anx19      0.93      0.93    0.95      0.41  14   0.0042
## T1Anx20      0.94      0.94    0.95      0.44  16   0.0040
## T1Anx21      0.93      0.93    0.95      0.41  14   0.0042
##
##  Item statistics
##           n raw.r std.r r.cor r.drop mean   sd
## T1Anx1  477  0.58  0.58  0.55   0.52 0.96 1.11
## T1Anx2  475  0.71  0.71  0.70   0.67 0.90 1.06
## T1Anx3  477  0.71  0.70  0.69   0.67 1.05 1.09
```

```
## T1Anx4  470  0.73  0.73  0.71   0.70 0.85 1.04
## T1Anx5  475  0.65  0.64  0.62   0.60 1.05 1.12
## T1Anx6  469  0.73  0.73  0.71   0.69 0.94 1.03
## T1Anx7  477  0.73  0.72  0.71   0.69 0.96 1.09
## T1Anx8  466  0.75  0.76  0.75   0.73 0.66 0.96
## T1Anx9  468  0.67  0.67  0.66   0.63 0.85 1.03
## T1Anx10 473  0.67  0.67  0.65   0.63 0.78 0.97
## T1Anx11 472  0.74  0.75  0.74   0.71 0.66 0.96
## T1Anx12 474  0.77  0.76  0.77   0.74 0.91 1.05
## T1Anx13 476  0.74  0.73  0.74   0.70 0.80 1.05
## T1Anx14 472  0.74  0.75  0.73   0.71 0.62 0.97
## T1Anx15 473  0.68  0.69  0.68   0.65 0.54 0.92
## T1Anx16 473  0.53  0.53  0.52   0.47 0.76 1.13
## T1Anx17 473  0.55  0.56  0.54   0.51 0.67 0.95
## T1Anx18 471  0.49  0.51  0.47   0.45 0.31 0.70
## T1Anx19 474  0.71  0.72  0.70   0.67 0.51 0.86
## T1Anx20 473  0.29  0.33  0.28   0.26 0.14 0.48
## T1Anx21 476  0.74  0.74  0.73   0.70 0.64 0.96
##
## Non missing response frequency for each item
##            0    1    2    3 miss
## T1Anx1  0.48 0.22 0.14 0.15 0.01
## T1Anx2  0.51 0.19 0.20 0.10 0.01
## T1Anx3  0.43 0.23 0.21 0.14 0.01
## T1Anx4  0.53 0.20 0.17 0.10 0.02
## T1Anx5  0.46 0.18 0.23 0.14 0.01
## T1Anx6  0.46 0.24 0.20 0.10 0.02
## T1Anx7  0.48 0.19 0.20 0.13 0.01
## T1Anx8  0.62 0.19 0.12 0.08 0.03
## T1Anx9  0.53 0.18 0.20 0.09 0.03
## T1Anx10 0.54 0.21 0.19 0.07 0.01
## T1Anx11 0.62 0.17 0.14 0.07 0.02
## T1Anx12 0.50 0.20 0.19 0.11 0.01
## T1Anx13 0.57 0.17 0.16 0.11 0.01
## T1Anx14 0.66 0.12 0.16 0.06 0.02
## T1Anx15 0.70 0.13 0.11 0.06 0.01
## T1Anx16 0.64 0.10 0.12 0.14 0.01
## T1Anx17 0.61 0.16 0.17 0.06 0.01
## T1Anx18 0.80 0.10 0.07 0.02 0.02
## T1Anx19 0.71 0.11 0.15 0.03 0.01
## T1Anx20 0.90 0.05 0.04 0.00 0.01
## T1Anx21 0.65 0.13 0.17 0.06 0.01
```

```
psych::alpha(data %>% filter(timePoint_factor == "1") %>% select(T1FuncMen1, T1FuncMen2, T1FuncMen3, T1FuncMen
```

```
##
## Reliability analysis
## Call: psych::alpha(x = data %>% filter(timePoint_factor == "1") %>%
##     select(T1FuncMen1, T1FuncMen2, T1FuncMen3, T1FuncMen4))
##
##   raw_alpha std.alpha G6(smc) average_r S/N   ase mean  sd
##       0.78      0.78    0.75      0.47 3.5 0.016  2.4 1.2
##
##  lower alpha upper     95% confidence boundaries
## 0.75 0.78 0.81
##
##  Reliability if an item is dropped:
##            raw_alpha std.alpha G6(smc) average_r S/N alpha se
## T1FuncMen1      0.69      0.69    0.60      0.43 2.2    0.025
## T1FuncMen2      0.69      0.70    0.61      0.43 2.3    0.024
## T1FuncMen3      0.78      0.77    0.72      0.53 3.4    0.018
```

```
## T1FuncMen4      0.74      0.74    0.69      0.48 2.8    0.019
##
##  Item statistics
##              n raw.r std.r r.cor r.drop mean  sd
## T1FuncMen1 225  0.84  0.81  0.76   0.66  2.8 1.6
## T1FuncMen2 229  0.83  0.81  0.75   0.66  3.0 1.6
## T1FuncMen3 227  0.68  0.71  0.55   0.48  1.6 1.2
## T1FuncMen4 217  0.76  0.76  0.63   0.55  1.9 1.4
##
## Non missing response frequency for each item
##                1    2    3    4    5 miss
## T1FuncMen1 0.36 0.12 0.08 0.24 0.20 0.53
## T1FuncMen2 0.29 0.12 0.11 0.26 0.22 0.52
## T1FuncMen3 0.73 0.10 0.04 0.07 0.06 0.53
## T1FuncMen4 0.66 0.09 0.02 0.14 0.09 0.55
```

```
psych::alpha(data %>% filter(timePoint_factor == "1") %>% select(T1FuncWom1, T1FuncWom2, T1FuncWom3, T1FuncWom
```

```
##
## Reliability analysis
## Call: psych::alpha(x = data %>% filter(timePoint_factor == "1") %>%
##     select(T1FuncWom1, T1FuncWom2, T1FuncWom3, T1FuncWom4, T1FuncWom5))
##
##   raw_alpha std.alpha G6(smc) average_r S/N   ase mean  sd
##       0.83      0.83    0.84      0.49 4.9 0.013  2.5 1.2
##
##  lower alpha upper     95% confidence boundaries
## 0.8 0.83 0.85
##
##  Reliability if an item is dropped:
##            raw_alpha std.alpha G6(smc) average_r S/N alpha se
## T1FuncWom1      0.80      0.80    0.79      0.50 3.9    0.016
## T1FuncWom2      0.79      0.79    0.80      0.49 3.9    0.016
## T1FuncWom3      0.82      0.82    0.81      0.53 4.5    0.014
## T1FuncWom4      0.78      0.78    0.74      0.48 3.6    0.016
## T1FuncWom5      0.78      0.78    0.74      0.47 3.5    0.017
##
##  Item statistics
##              n raw.r std.r r.cor r.drop mean  sd
## T1FuncWom1 226  0.77  0.77  0.68   0.62  3.1 1.4
## T1FuncWom2 235  0.78  0.77  0.68   0.63  2.3 1.5
## T1FuncWom3 229  0.73  0.71  0.60   0.54  2.9 1.6
## T1FuncWom4 211  0.80  0.80  0.78   0.66  2.2 1.5
## T1FuncWom5 206  0.82  0.81  0.79   0.68  2.1 1.5
##
## Non missing response frequency for each item
##                1    2    3    4    5 miss
## T1FuncWom1 0.22 0.14 0.15 0.31 0.18 0.53
## T1FuncWom2 0.46 0.17 0.11 0.14 0.13 0.51
## T1FuncWom3 0.31 0.18 0.09 0.19 0.24 0.52
## T1FuncWom4 0.53 0.14 0.06 0.15 0.12 0.56
## T1FuncWom5 0.56 0.13 0.06 0.13 0.13 0.57
```

```
psych::alpha(data %>% filter(timePoint_factor == "1") %>% select(starts_with("T1SocCoh1")))
```

```
##
## Reliability analysis
## Call: psych::alpha(x = data %>% filter(timePoint_factor == "1") %>%
##     select(starts_with("T1SocCoh1")))
##
##   raw_alpha std.alpha G6(smc) average_r S/N   ase mean   sd
```

```
##       0.76      0.76    0.85      0.39 3.2 0.019  2.7 0.97
##
##  lower alpha upper     95% confidence boundaries
## 0.72 0.76 0.8
##
##  Reliability if an item is dropped:
##            raw_alpha std.alpha G6(smc) average_r S/N alpha se
## T1SocCoh1a      0.67      0.67    0.75      0.34 2.1    0.026
## T1SocCoh1b      0.67      0.67    0.75      0.34 2.0    0.027
## T1SocCoh1c      0.67      0.67    0.80      0.34 2.0    0.027
## T1SocCoh1d      0.80      0.80    0.82      0.49 3.9    0.016
## T1SocCoh1e      0.75      0.76    0.80      0.44 3.1    0.019
##
##  Item statistics
##              n raw.r std.r r.cor r.drop mean  sd
## T1SocCoh1a 476  0.80  0.80  0.80   0.64  2.8 1.4
## T1SocCoh1b 476  0.81  0.80  0.81   0.66  2.8 1.4
## T1SocCoh1c 474  0.79  0.80  0.75   0.66  2.5 1.3
## T1SocCoh1d 476  0.55  0.54  0.42   0.29  2.6 1.4
## T1SocCoh1e 473  0.63  0.63  0.52   0.42  2.7 1.3
##
## Non missing response frequency for each item
##                1    2    3    4    5 miss
## T1SocCoh1a 0.24 0.20 0.24 0.15 0.17 0.01
## T1SocCoh1b 0.24 0.20 0.25 0.15 0.17 0.01
## T1SocCoh1c 0.29 0.26 0.25 0.12 0.09 0.01
## T1SocCoh1d 0.32 0.20 0.20 0.14 0.14 0.01
## T1SocCoh1e 0.25 0.21 0.26 0.16 0.12 0.01
```

```
psych::alpha(data %>% filter(timePoint_factor == "1") %>% select(HGDfuturedisprephelp_T, HGDfutureafterdishelp
```

```
##
## Reliability analysis
## Call: psych::alpha(x = data %>% filter(timePoint_factor == "1") %>%
##     select(HGDfuturedisprephelp_T, HGDfutureafterdishelp_T))
##
##   raw_alpha std.alpha G6(smc) average_r S/N   ase mean   sd
##       0.61      0.61    0.44      0.44 1.6 0.035 0.32 0.39
##
##  lower alpha upper     95% confidence boundaries
## 0.54 0.61 0.68
##
##  Reliability if an item is dropped:
##                          raw_alpha std.alpha G6(smc) average_r S/N alpha se
## HGDfuturedisprephelp_T       0.44      0.44    0.19      0.44  NA       NA
## HGDfutureafterdishelp_T      0.44      0.44    0.19      0.44  NA       NA
##
##  Item statistics
##                            n raw.r std.r r.cor r.drop mean   sd
## HGDfuturedisprephelp_T   473  0.84  0.85  0.56   0.44 0.29 0.45
## HGDfutureafterdishelp_T 475  0.86  0.85  0.56   0.44 0.35 0.48
##
## Non missing response frequency for each item
##                             0    1 miss
## HGDfuturedisprephelp_T  0.71 0.29 0.01
## HGDfutureafterdishelp_T 0.65 0.35 0.01
```

```
psych::alpha(data %>% filter(timePoint_factor == "1") %>% select(HGMHfuturehelp_T, HGMHskillshelp_T))
```

```
##
## Reliability analysis
```

```
## Call: psych::alpha(x = data %>% filter(timePoint_factor == "1") %>%
##     select(HGMHfuturehelp_T, HGMHskillshelp_T))
##
##   raw_alpha std.alpha G6(smc) average_r  S/N   ase mean  sd
##        0.26      0.32    0.19      0.19 0.47 0.053 0.25 0.3
##
##  lower alpha upper     95% confidence boundaries
## 0.16 0.26 0.37
##
##  Reliability if an item is dropped:
##                   raw_alpha std.alpha G6(smc) average_r S/N alpha se
## HGMHfuturehelp_T       0.19      0.19   0.037      0.19  NA       NA
## HGMHskillshelp_T       0.19      0.19   0.037      0.19  NA       NA
##
##  Item statistics
##                      n raw.r std.r r.cor r.drop  mean   sd
## HGMHfuturehelp_T 475  0.92  0.77  0.34   0.19 0.432 0.50
## HGMHskillshelp_T 469  0.57  0.77  0.34   0.19 0.064 0.24
##
## Non missing response frequency for each item
##                       0    1 miss
## HGMHfuturehelp_T 0.57 0.43 0.01
## HGMHskillshelp_T 0.94 0.06 0.02
```

We also want to examine test-retest reliability for our various scales by doing a simple Pearson correlation from time 1 to time 2 in untreated subjects. We have to restructure our data using `tidyr::spread` to get it in the proper wide format.

```
#chronic stress
cor.test( ~ `1` + `2`, data = data %>% filter(timePoint_factor != "3" & interventiongroup == "Control") %>% se
```

```
##
##  Pearson's product-moment correlation
##
## data:  1 and 2
## t = 3.1866, df = 99, p-value = 0.001926
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.1165092 0.4722897
## sample estimates:
##       cor
## 0.3050034
```

```
#natural trauma
cor.test( ~ TraumaNatural_T1 + TraumaNatural_T3, data = data %>% filter(timePoint_factor == "1" & intervention
```

```
##
##  Pearson's product-moment correlation
##
## data:  TraumaNatural_T1 and TraumaNatural_T3
## t = 2.1772, df = 149, p-value = 0.03104
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.01632247 0.32617335
## sample estimates:
##       cor
## 0.1755931
```

```
#other trauma
cor.test( ~ TraumaOther_T1 + TraumaOther_T3, data = data %>% filter(timePoint_factor == "1" & interventiongrou
```

```
##
##  Pearson's product-moment correlation
##
```

```
## data:  TraumaOther_T1 and TraumaOther_T3
## t = 3.9764, df = 135, p-value = 0.0001135
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.1650461 0.4661968
## sample estimates:
##       cor
## 0.3237986
```

```
#disaster preparedness
cor.test( ~ `1` + `2`, data = data %>% filter(timePoint_factor != "3" & interventiongroup == "Control") %>% se
```

```
##
##  Pearson's product-moment correlation
##
## data:  1 and 2
## t = 5.8764, df = 101, p-value = 5.422e-08
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.3449371 0.6361492
## sample estimates:
##       cor
## 0.5047666
```

```
#depression
cor.test( ~ `1` + `2`, data = data %>% filter(timePoint_factor != "3" & interventiongroup == "Control") %>% se
```

```
##
##  Pearson's product-moment correlation
##
## data:  1 and 2
## t = 5.4738, df = 144, p-value = 1.905e-07
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.2708233 0.5409891
## sample estimates:
##       cor
## 0.4150132
```

```
#ptsd
cor.test( ~ `1` + `2`, data = data %>% filter(timePoint_factor != "3" & interventiongroup == "Control") %>% se
```

```
##
##  Pearson's product-moment correlation
##
## data:  1 and 2
## t = 5.0715, df = 144, p-value = 1.196e-06
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.2421529 0.5189200
## sample estimates:
##       cor
## 0.3892877
```

```
#anxiety
cor.test( ~ `1` + `2`, data = data %>% filter(timePoint_factor != "3" & interventiongroup == "Control") %>% se
```

```
##
##  Pearson's product-moment correlation
##
## data:  1 and 2
## t = 4.8835, df = 144, p-value = 2.738e-06
## alternative hypothesis: true correlation is not equal to 0
```

```
## 95 percent confidence interval:
##  0.2284816 0.5082650
## sample estimates:
##       cor
## 0.3769393
```

```
# functioning men
cor.test( ~ `1` + `2`, data = data %>% filter(timePoint_factor != "3" & interventiongroup == "Control" & T1Fun
```

```
##
##  Pearson's product-moment correlation
##
## data:  1 and 2
## t = 4.7588, df = 67, p-value = 1.078e-05
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.3018372 0.6606970
## sample estimates:
##       cor
## 0.5026118
```

```
# functioning women
cor.test( ~ `1` + `2`, data = data %>% filter(timePoint_factor != "3" & interventiongroup == "Control" & T1Fun
```

```
##
##  Pearson's product-moment correlation
##
## data:  1 and 2
## t = 4.8078, df = 70, p-value = 8.441e-06
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.3013579 0.6543774
## sample estimates:
##       cor
## 0.4982416
```

```
# functioning all
cor.test( ~ `1` + `2`, data = data %>% filter(timePoint_factor != "3" & interventiongroup == "Control") %>% se
```

```
##
##  Pearson's product-moment correlation
##
## data:  1 and 2
## t = 6.8227, df = 139, p-value = 2.528e-10
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.3658538 0.6152429
## sample estimates:
##       cor
## 0.5008731
```

```
#social cohesion
cor.test( ~ `1` + `2`, data = data %>% filter(timePoint_factor != "3" & interventiongroup == "Control") %>% se
```

```
##
##  Pearson's product-moment correlation
##
## data:  1 and 2
## t = 4.5805, df = 135, p-value = 1.043e-05
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.2120841 0.5034993
## sample estimates:
```

```
##       cor
## 0.3667542
```

```
# help giving disaster
cor.test( ~ `1` + `2`, data = data %>% filter(timePoint_factor != "3" & interventiongroup == "Control") %>% se
```

```
##
##  Pearson's product-moment correlation
##
## data:  1 and 2
## t = 3.0991, df = 144, p-value = 0.002335
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.09131444 0.39639987
## sample estimates:
##       cor
## 0.2500536
```

```
# help giving mental
cor.test( ~ `1` + `2`, data = data %>% filter(timePoint_factor != "3" & interventiongroup == "Control") %>% se
```

```
##
##  Pearson's product-moment correlation
##
## data:  1 and 2
## t = 2.7144, df = 137, p-value = 0.007494
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.06173022 0.37818485
## sample estimates:
##       cor
## 0.2259091
```

```
# help seeking disaster
cor.test( ~ `1` + `2`, data = data %>% filter(timePoint_factor != "3" & interventiongroup == "Control") %>% se
```

```
##
##  Pearson's product-moment correlation
##
## data:  1 and 2
## t = 3.382, df = 144, p-value = 0.0009267
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.1138342 0.4154090
## sample estimates:
##       cor
## 0.2712663
```

```
# help seeking mental
cor.test( ~ `1` + `2`, data = data %>% filter(timePoint_factor != "3" & interventiongroup == "Control") %>% se
```

```
##
##  Pearson's product-moment correlation
##
## data:  1 and 2
## t = 2.0645, df = 141, p-value = 0.0408
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.007349637 0.326266410
## sample estimates:
##       cor
## 0.1712916
```

Having done that, we can ask whether disaster preparedness is correlated with our mental health measures (a primary

assumption of the intervention).

```
rcorr(as.matrix(data %>% filter(timePoint_factor == "1") %>% select(DP_cleaned_T, Depmean_T, PTSD_T, Anxmean_T
```

```
##               DP_cleaned_T Depmean_T PTSD_T Anxmean_T Funcmean_T
## DP_cleaned_T          1.00     -0.16  -0.28     -0.20      -0.33
## Depmean_T            -0.16      1.00   0.72      0.70       0.49
## PTSD_T               -0.28      0.72   1.00      0.63       0.44
## Anxmean_T            -0.20      0.70   0.63      1.00       0.46
## Funcmean_T           -0.33      0.49   0.44      0.46       1.00
## SocCohmean_T          0.09     -0.11  -0.11     -0.07      -0.06
##               SocCohmean_T
## DP_cleaned_T          0.09
## Depmean_T            -0.11
## PTSD_T               -0.11
## Anxmean_T            -0.07
## Funcmean_T           -0.06
## SocCohmean_T          1.00
##
## n
##               DP_cleaned_T Depmean_T PTSD_T Anxmean_T Funcmean_T
## DP_cleaned_T           405       402    404       402        394
## Depmean_T              402       477    477       477        468
## PTSD_T                 404       477    479       477        468
## Anxmean_T              402       477    477       477        468
## Funcmean_T             394       468    468       468        468
## SocCohmean_T           398       471    471       471        463
##               SocCohmean_T
## DP_cleaned_T           398
## Depmean_T              471
## PTSD_T                 471
## Anxmean_T              471
## Funcmean_T             463
## SocCohmean_T           471
##
## P
##               DP_cleaned_T Depmean_T PTSD_T Anxmean_T Funcmean_T
## DP_cleaned_T                0.0010    0.0000 0.0000    0.0000
## Depmean_T     0.0010                  0.0000 0.0000    0.0000
## PTSD_T        0.0000       0.0000            0.0000    0.0000
## Anxmean_T     0.0000       0.0000    0.0000            0.0000
## Funcmean_T    0.0000       0.0000    0.0000 0.0000
## SocCohmean_T  0.0875       0.0140    0.0226 0.1460    0.2127
##               SocCohmean_T
## DP_cleaned_T  0.0875
## Depmean_T     0.0140
## PTSD_T        0.0226
## Anxmean_T     0.1460
## Funcmean_T    0.2127
## SocCohmean_T
```

```
chart.Correlation(data %>% filter(timePoint_factor == "1") %>% select(DP_cleaned_T, Depmean_T, PTSD_T, Anxmean
```

```
## Warning in plot.window(...): "method" is not a graphical parameter

## Warning in plot.xy(xy, type, ...): "method" is not a graphical parameter

## Warning in title(...): "method" is not a graphical parameter

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```

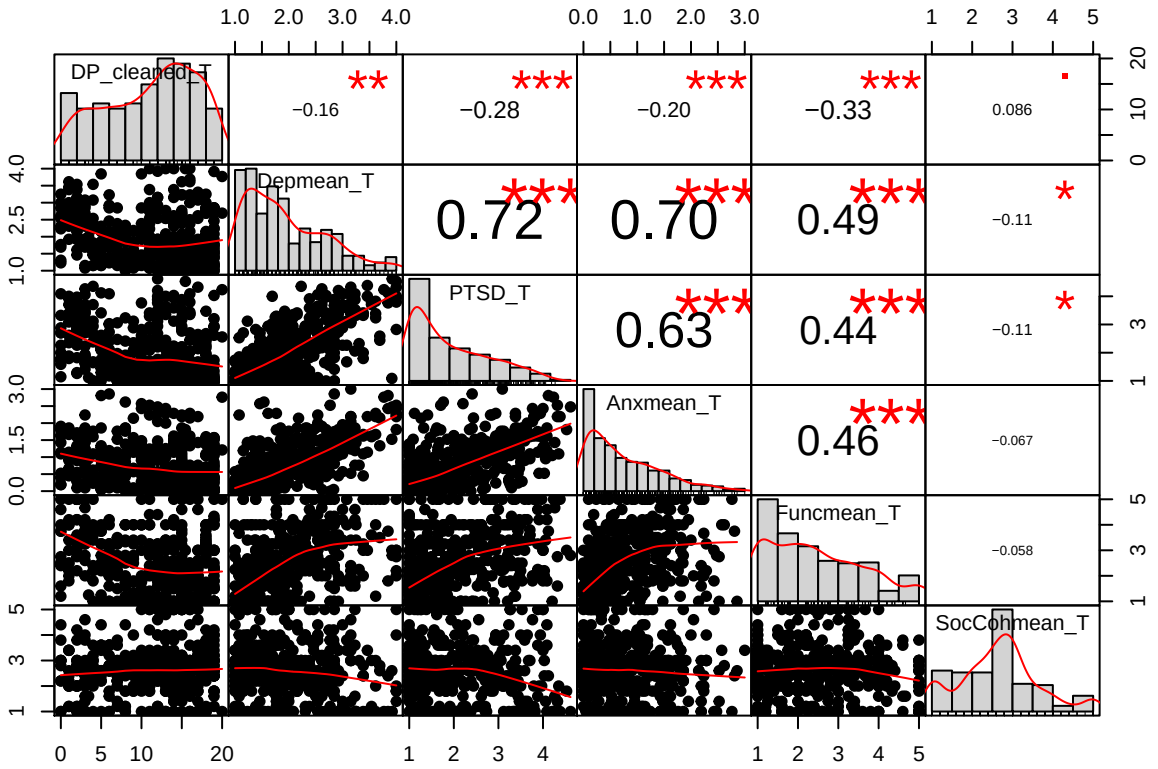

Finally, let's plot the % of people that respond yes in the summed measure across time points.

```
plot_line_bar <- function(dv, limits, theme_style = theme_grey(), title = "", position=c(.8825, .25), by=.5, l


  if(is.factor(filtered[[dv]])) {
    filtered[[paste0(dv, '_numeric')]] <- as.numeric(filtered[[dv]])
    dv <- paste0(dv, '_numeric')
  }

  breaks <- seq(limits[1], limits[2], by=by)
  wrap_113 <- wrap_format(113)

  line <- ggplot(filtered[!is.na(filtered$interventiongroup),], aes_string(x="timePoint_factor", y=dv, group="
        stat_summary(geom="errorbar", fun.data=mean_se, fun.args=list(mult=1), width=.09, size=1, alpha=.8, ae
        stat_summary(aes(color=interventiongroup), geom="line", fun.y="mean", size=1, alpha=.8, linetype=1) +
        stat_summary(geom="point", fun.y="mean", size=4, aes(color=interventiongroup))  +
        coord_cartesian(ylim=limits) +
        scale_shape_discrete("") +
        scale_color_discrete("",labels=c('Control', 'Intervention')) +
        labs(color="Condition", shape="Condition", x="Time point", y=title, caption = wrap_113(sprintf(caption
        theme_style +
        theme(
            legend.position=position,
            plot.caption=element_text(hjust=0),
            legend.box.just="left",
            legend.background = element_rect(color = "transparent", fill = "transparent"),
            legend.key = element_rect(color = "transparent", fill = "transparent"),
            legend.title = element_blank()
        )
  line
  if(save) {
    ggsave(paste0(title, '.pdf'), device=cairo_pdf, width = 7.5, height = 5)
```

```
  }
  print(line)
}
```

```
limits <- c(8,16)
theme <- theme_minimal()
rnge <- round(range(filtered$DP_cleaned_T, na.rm = TRUE),0)
caption = "20-item yes/no scale (range %d - %d), with greater values indicating greater engagement in disaster
plot_line_bar("DP_cleaned_T", limits, theme, "Disaster Preparation Behaviors", logit=FALSE, rnge = rnge, by =
```

```
## Warning: Removed 450 rows containing non-finite values (stat_summary).

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```

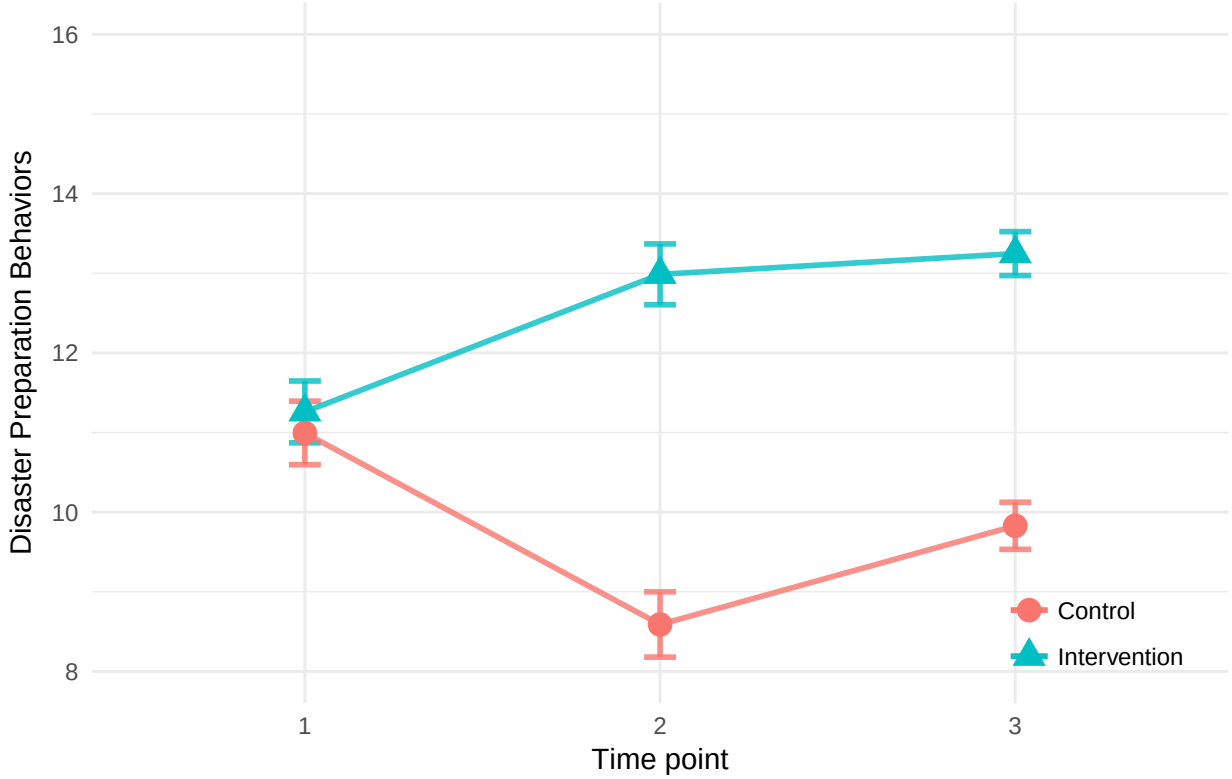

20−item yes/no scale (range 0 − 20), with greater values indicating greater engagement in disaste
behaviors

```
DPT_model <- lmer(DP_cleaned_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID), data = filtered)
summary(DPT_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula:
## DP_cleaned_T ~ interventiongroup * timePoint_factor + (1 | T1ParticipantID)
##    Data: filtered
##
## REML criterion at convergence: 5774.9
##
```

```
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -2.78843 -0.53725  0.06456  0.58376  2.25402
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept)  9.493   3.081
##  Residual                    13.088   3.618
## Number of obs: 990, groups:  T1ParticipantID, 470
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                     10.9203     0.3316
## interventiongroupIntervention                    0.4336     0.4653
## timePoint_factor2                               -2.5509     0.4387
## timePoint_factor3                               -1.0527     0.4135
## interventiongroupIntervention:timePoint_factor2  4.1816     0.6041
## interventiongroupIntervention:timePoint_factor3  2.9047     0.5737
##                                                      df t value Pr(>|t|)
## (Intercept)                                     869.8000  32.937  < 2e-16
## interventiongroupIntervention                   865.7000   0.932   0.3517
## timePoint_factor2                               662.2000  -5.814 9.48e-09
## timePoint_factor3                               657.6000  -2.546   0.0111
## interventiongroupIntervention:timePoint_factor2 652.7000   6.922 1.07e-11
## interventiongroupIntervention:timePoint_factor3 637.8000   5.063 5.40e-07
##
## (Intercept)                                     ***
## interventiongroupIntervention
## timePoint_factor2                               ***
## timePoint_factor3                               *
## interventiongroupIntervention:timePoint_factor2 ***
## interventiongroupIntervention:timePoint_factor3 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.713
## tmPnt_fctr2 -0.487  0.347
## tmPnt_fctr3 -0.520  0.371  0.428
## intrvnI:P_2  0.353 -0.494 -0.726 -0.311
## intrvnI:P_3  0.375 -0.518 -0.308 -0.721  0.427
```

```
Anova(DPT_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: DP_cleaned_T
##                                       Chisq Df Pr(>Chisq)
## (Intercept)                        1084.8375  1  < 2.2e-16 ***
## interventiongroup                     0.8684  1     0.3514
## timePoint_factor                     33.8090  2  4.555e-08 ***
## interventiongroup:timePoint_factor   53.3395  2  2.615e-12 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
#summary(rbind(pairs(lsmeans::lsmeans(DPT_model, ~ interventiongroup * timePoint_factor), by = "timePoint_fact
DPT_MM <- lsmeans::lsmeans(DPT_model, ~ timePoint_factor * interventiongroup)
summary(rbind(pairs(DPT_MM, by="interventiongroup")[c(1,3,4,6)], pairs(DPT_MM, by="timePoint_factor")))
```

```
##  timePoint_factor contrast              interventiongroup   estimate
```

```
##  .               1 - 2                 Control            2.5509218
##  .               2 - 3                 Control           -1.4982447
##  .               1 - 2                 Intervention      -1.6307213
##  .               2 - 3                 Intervention      -0.2212905
##  1               Control - Intervention .                -0.4336076
##  2               Control - Intervention .                -4.6152507
##  3               Control - Intervention .                -3.3382965
##         SE     df t.ratio p.value
##  0.4387400 662.17   5.814  <.0001
##  0.4563507 618.54  -3.283  0.0076
##  0.4152455 642.27  -3.927  0.0007
##  0.4354237 619.99  -0.508  1.0000
##  0.4652986 865.75  -0.932  1.0000
##  0.5510532 967.65  -8.375  <.0001
##  0.5189329 940.19  -6.433  <.0001
##
## P value adjustment: bonferroni method for 7 tests
```

```
DPT_excludedItems_model <- lmer(DP_cleaned_excludedItems_T ~ interventiongroup * timePoint_factor + (1|T1Parti
summary(DPT_excludedItems_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula:
## DP_cleaned_excludedItems_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
##    Data: filtered
##
## REML criterion at convergence: 5665.7
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -2.77069 -0.54270  0.06417  0.56455  2.22584
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept)  8.246   2.872
##  Residual                    11.755   3.428
## Number of obs: 991, groups:  T1ParticipantID, 470
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                     10.2500     0.3122
## interventiongroupIntervention                    0.5214     0.4381
## timePoint_factor2                               -2.1884     0.4153
## timePoint_factor3                               -0.7720     0.3915
## interventiongroupIntervention:timePoint_factor2  3.7426     0.5712
## interventiongroupIntervention:timePoint_factor3  2.5335     0.5432
##                                                      df t value Pr(>|t|)
## (Intercept)                                     874.6000  32.830  < 2e-16
## interventiongroupIntervention                   870.7000   1.190    0.234
## timePoint_factor2                               665.2000  -5.269 1.85e-07
## timePoint_factor3                               660.3000  -1.972    0.049
## interventiongroupIntervention:timePoint_factor2 655.2000   6.552 1.15e-10
## interventiongroupIntervention:timePoint_factor3 640.3000   4.664 3.77e-06
##
## (Intercept)                                     ***
## interventiongroupIntervention
## timePoint_factor2                               ***
## timePoint_factor3                               *
## interventiongroupIntervention:timePoint_factor2 ***
```

```
## interventiongroupIntervention:timePoint_factor3 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.713
## tmPnt_fctr2 -0.490  0.349
## tmPnt_fctr3 -0.523  0.373  0.427
## intrvnI:P_2  0.356 -0.498 -0.727 -0.311
## intrvnI:P_3  0.377 -0.521 -0.308 -0.721  0.428
```

```
Anova(DPT_excludedItems_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: DP_cleaned_excludedItems_T
##                                      Chisq Df Pr(>Chisq)
## (Intercept)                       1077.8206  1  < 2.2e-16 ***
## interventiongroup                    1.4163  1      0.234
## timePoint_factor                    27.8595  2  8.920e-07 ***
## interventiongroup:timePoint_factor  47.1731  2  5.708e-11 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
#summary(rbind(pairs(lsmeans::lsmeans(DPT_model, ~ interventiongroup * timePoint_factor), by = "timePoint_fact
DPT_excludedItems_MM <- lsmeans::lsmeans(DPT_excludedItems_model, ~ timePoint_factor * interventiongroup)
summary(rbind(pairs(DPT_excludedItems_MM, by="interventiongroup")[c(1,3,4,6)], pairs(DPT_excludedItems_MM, by=
```

```
##  timePoint_factor contrast              interventiongroup   estimate
##  .                1 - 2                 Control            2.1884311
##  .                2 - 3                 Control           -1.4164229
##  .                1 - 2                 Intervention      -1.5541385
##  .                2 - 3                 Intervention      -0.2073338
##  1                Control - Intervention .                 -0.5214170
##  2                Control - Intervention .                 -4.2639866
##  3                Control - Intervention .                 -3.0548975
##         SE     df t.ratio p.value
##  0.4153327 665.25   5.269  <.0001
##  0.4321589 621.27  -3.278  0.0077
##  0.3921351 644.07  -3.963  0.0006
##  0.4113064 621.50  -0.504  1.0000
##  0.4381389 870.67  -1.190  1.0000
##  0.5187950 969.23  -8.219  <.0001
##  0.4890141 943.12  -6.247  <.0001
##
## P value adjustment: bonferroni method for 7 tests
```

```
PTSD_T_model <- lmer(PTSD_T ~ interventiongroup * timePoint_factor + (1|Locationcode/T1ParticipantID), data = 
summary(PTSD_T_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula:
## PTSD_T ~ interventiongroup * timePoint_factor + (1 | Locationcode/T1ParticipantID)
##    Data: filtered
##
## REML criterion at convergence: 2681.3
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -2.0577 -0.6263 -0.1821  0.5325  3.5371
```

```
##
## Random effects:
##  Groups                        Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 0.26929  0.5189
##  Locationcode                  (Intercept) 0.02147  0.1465
##  Residual                                  0.43155  0.6569
## Number of obs: 1121, groups:
## T1ParticipantID:Locationcode, 479; Locationcode, 3
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                     1.95997    0.10046
## interventiongroupIntervention                   0.07636    0.07651
## timePoint_factor2                              -0.01830    0.07170
## timePoint_factor3                              -0.08240    0.06934
## interventiongroupIntervention:timePoint_factor2 -0.45932    0.09941
## interventiongroupIntervention:timePoint_factor3 -0.28337    0.09649
##                                                      df t value Pr(>|t|)
## (Intercept)                                     3.10000  19.511 0.000261
## interventiongroupIntervention                 897.20000   0.998 0.318489
## timePoint_factor2                             729.50000  -0.255 0.798584
## timePoint_factor3                             719.50000  -1.188 0.235070
## interventiongroupIntervention:timePoint_factor2 719.70000  -4.620 4.54e-06
## interventiongroupIntervention:timePoint_factor3 710.90000  -2.937 0.003425
##
## (Intercept)                                    ***
## interventiongroupIntervention
## timePoint_factor2
## timePoint_factor3
## interventiongroupIntervention:timePoint_factor2 ***
## interventiongroupIntervention:timePoint_factor3 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.382
## tmPnt_fctr2 -0.250  0.329
## tmPnt_fctr3 -0.259  0.340  0.395
## intrvnI:P_2  0.181 -0.474 -0.721 -0.285
## intrvnI:P_3  0.186 -0.488 -0.283 -0.718  0.402
```

```
Anova(PTSD_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: PTSD_T
##                                     Chisq Df Pr(>Chisq)
## (Intercept)                      380.6620  1  < 2.2e-16 ***
## interventiongroup                  0.9962  1     0.3182
## timePoint_factor                   1.4664  2     0.4804
## interventiongroup:timePoint_factor  22.7346  2  1.157e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(PTSD_T_model, ~ interventiongroup * timePoint_factor), by = "timePoint_fa
```

```
##  timePoint_factor contrast               estimate        SE     df
##  2                Control - Intervention 0.3829609 0.0923438 1066.5
##  t.ratio p.value
##    4.147  <.0001
```

```r
PTSD_avoid_T_model <- lmer(PTSD_avoid_T ~ interventiongroup * timePoint_factor + (1|Locationcode/T1Participant
summary(PTSD_avoid_T_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula:
## PTSD_avoid_T ~ interventiongroup * timePoint_factor + (1 | Locationcode/T1ParticipantID)
##    Data: filtered
##
## REML criterion at convergence: 4092.7
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -1.8542 -0.6149 -0.2346  0.4373  3.4217
##
## Random effects:
##  Groups                       Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 0.78886  0.8882
##  Locationcode                 (Intercept) 0.03951  0.1988
##  Residual                                 1.65788  1.2876
## Number of obs: 1116, groups:
## T1ParticipantID:Locationcode, 477; Locationcode, 3
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                     1.25627    0.15343
## interventiongroupIntervention                   0.04347    0.14339
## timePoint_factor2                               0.07258    0.14048
## timePoint_factor3                              -0.13267    0.13550
## interventiongroupIntervention:timePoint_factor2 -0.70448    0.19463
## interventiongroupIntervention:timePoint_factor3 -0.43346    0.18851
##                                                      df t value Pr(>|t|)
## (Intercept)                                     4.10000   8.188 0.001119
## interventiongroupIntervention                 946.40000   0.303 0.761828
## timePoint_factor2                             737.70000   0.517 0.605565
## timePoint_factor3                             721.40000  -0.979 0.327885
## interventiongroupIntervention:timePoint_factor2 726.60000  -3.620 0.000316
## interventiongroupIntervention:timePoint_factor3 713.40000  -2.299 0.021769
##
## (Intercept)                                    **
## interventiongroupIntervention
## timePoint_factor2
## timePoint_factor3
## interventiongroupIntervention:timePoint_factor2 ***
## interventiongroupIntervention:timePoint_factor3 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.471
## tmPnt_fctr2 -0.326  0.349
## tmPnt_fctr3 -0.338  0.361  0.395
## intrvnI:P_2  0.236 -0.500 -0.721 -0.285
## intrvnI:P_3  0.243 -0.516 -0.283 -0.718  0.401
```

```r
Anova(PTSD_avoid_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
```

```
## Response: PTSD_avoid_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                      67.0440  1  2.655e-16 ***
## interventiongroup                 0.0919  1  0.7617617
## timePoint_factor                  1.9242  2  0.3820961
## interventiongroup:timePoint_factor 13.9552  2  0.0009325 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(PTSD_avoid_T_model, ~ interventiongroup * timePoint_factor), by = "timePo
```

```
##  timePoint_factor contrast               estimate        SE      df
##  2                Control - Intervention 0.6610053 0.1747572 1079.76
##  t.ratio p.value
##    3.782  0.0002
```

```
idioms1_T_model <- clmm(idioms1_T ~ interventiongroup * timePoint_factor + (1|Locationcode/T1ParticipantID), d
summary(idioms1_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula:
## idioms1_T ~ interventiongroup * timePoint_factor + (1 | Locationcode/T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik   AIC     niter     max.grad cond.H
##  logit flexible  1113 -1397.23 2816.47 875(2628) 8.49e-04 1.3e+02
##
## Random effects:
##  Groups                       Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 0.8830   0.9397
##  Locationcode                 (Intercept) 0.0984   0.3137
## Number of groups:  T1ParticipantID:Locationcode 476,  Locationcode 3
##
## Coefficients:
##                                              Estimate Std. Error
## interventiongroupIntervention                  0.1776     0.1964
## timePoint_factor2                             -0.2354     0.2067
## timePoint_factor3                             -0.5734     0.2062
## interventiongroupIntervention:timePoint_factor2  -0.8253     0.2978
## interventiongroupIntervention:timePoint_factor3  -0.7320     0.2934
##                                              z value Pr(>|z|)
## interventiongroupIntervention                  0.905  0.36563
## timePoint_factor2                             -1.139  0.25466
## timePoint_factor3                             -2.782  0.00541 **
## interventiongroupIntervention:timePoint_factor2  -2.771  0.00558 **
## interventiongroupIntervention:timePoint_factor3  -2.494  0.01262 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2  -0.4197     0.2313  -1.815
## 2|3   0.9237     0.2340   3.947
## 3|4   2.0741     0.2483   8.353
## 4|5   2.9293     0.2682  10.921
## (327 observations deleted due to missingness)
```

```
Anova(idioms1_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
```

```
## Response: idioms1_T
##                                   LR Chisq Df Pr(>Chisq)
## interventiongroup                    0.000  1   1.000000
## timePoint_factor                     0.000  2   1.000000
## interventiongroup:timePoint_factor  10.239  2   0.005979 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(idioms1_T_model, ~ interventiongroup * timePoint_factor), by = "timePoint
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 0.6476719 0.2554728 NA   2.535
##  p.value
##   0.0112
```

```
idioms2_T_model <- clmm(idioms2_T ~ interventiongroup * timePoint_factor + (1|Locationcode/T1ParticipantID), d
summary(idioms2_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula:
## idioms2_T ~ interventiongroup * timePoint_factor + (1 | Locationcode/T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik   AIC     niter      max.grad cond.H
##  logit flexible  1115 -1672.26 3366.51 1094(3285) 1.44e-03 1.0e+02
##
## Random effects:
##  Groups                       Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 1.02755  1.014
##  Locationcode                 (Intercept) 0.03028  0.174
## Number of groups:  T1ParticipantID:Locationcode 477,  Locationcode 3
##
## Coefficients:
##                                                Estimate Std. Error
## interventiongroupIntervention                   0.08617    0.19333
## timePoint_factor2                              -1.04235    0.20407
## timePoint_factor3                              -0.70724    0.19449
## interventiongroupIntervention:timePoint_factor2 -0.53537    0.28001
## interventiongroupIntervention:timePoint_factor3 -0.35838    0.26903
##                                                z value Pr(>|z|)
## interventiongroupIntervention                    0.446 0.655792
## timePoint_factor2                               -5.108 3.26e-07 ***
## timePoint_factor3                               -3.636 0.000276 ***
## interventiongroupIntervention:timePoint_factor2  -1.912 0.055878 .
## interventiongroupIntervention:timePoint_factor3  -1.332 0.182827
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2  -1.8908     0.1884 -10.037
## 2|3  -0.5722     0.1754  -3.262
## 3|4   0.8133     0.1767   4.603
## 4|5   1.9545     0.1921  10.174
## (325 observations deleted due to missingness)
```

```
Anova(idioms2_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: idioms2_T
```

```
##                                   LR Chisq Df Pr(>Chisq)
## interventiongroup                   0.0000  1     1.0000
## timePoint_factor                    0.0000  2     1.0000
## interventiongroup:timePoint_factor  4.0467  2     0.1322
```

```
summary(rbind(pairs(lsmeans::lsmeans(idioms2_T_model, ~ interventiongroup * timePoint_factor), by = "timePoint
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 0.4491921 0.2418954 NA   1.857
##  p.value
##   0.0633
```

```
idioms3_T_model <- clmm(idioms3_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID), data = filtere
summary(idioms3_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula:
## idioms3_T ~ interventiongroup * timePoint_factor + (1 | T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik   AIC     niter     max.grad cond.H
##  logit flexible  1102 -1286.59 2593.18 788(3099) 2.31e-03 1.3e+02
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 1.602    1.266
## Number of groups:  T1ParticipantID 475
##
## Coefficients:
##                                                Estimate Std. Error
## interventiongroupIntervention                    0.2216     0.2262
## timePoint_factor2                               -0.2756     0.2288
## timePoint_factor3                               -0.7465     0.2274
## interventiongroupIntervention:timePoint_factor2 -0.7502     0.3244
## interventiongroupIntervention:timePoint_factor3 -0.3740     0.3178
##                                                z value Pr(>|z|)
## interventiongroupIntervention                    0.980  0.32712
## timePoint_factor2                               -1.205  0.22824
## timePoint_factor3                               -3.283  0.00103 **
## interventiongroupIntervention:timePoint_factor2 -2.312  0.02075 *
## interventiongroupIntervention:timePoint_factor3 -1.177  0.23922
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2   0.1432     0.1647    0.87
## 2|3   1.1682     0.1743    6.70
## 3|4   2.1012     0.1919   10.95
## 4|5   3.1092     0.2233   13.92
## (338 observations deleted due to missingness)
```

```
Anova(idioms3_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: idioms3_T
##                                   LR Chisq Df Pr(>Chisq)
## interventiongroup                   0.0000  1    0.99981
## timePoint_factor                    0.0000  2    1.00000
## interventiongroup:timePoint_factor  5.4772  2    0.06466 .
```

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(idioms3_T_model, ~ interventiongroup * timePoint_factor), by = "timePoint
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 0.5285835 0.2880768 NA   1.835
##  p.value
##   0.0665
```

```
DisMHmean_T_model <- lmer(DisMHmean_T ~ interventiongroup * timePoint_factor + (1|Locationcode/T1ParticipantID
summary(DisMHmean_T_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula:
## DisMHmean_T ~ interventiongroup * timePoint_factor + (1 | Locationcode/T1ParticipantID)
##    Data: filtered
##
## REML criterion at convergence: 4280.2
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -2.30173 -0.66297 -0.03527  0.66029  2.58867
##
## Random effects:
##  Groups                       Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 0.52478  0.7244
##  Locationcode                 (Intercept) 0.05669  0.2381
##  Residual                                 2.24802  1.4993
## Number of obs: 1114, groups:
## T1ParticipantID:Locationcode, 479; Locationcode, 3
##
## Fixed effects:
##                                              Estimate Std. Error
## (Intercept)                                    4.0532     0.1748
## interventiongroupIntervention                  0.1309     0.1525
## timePoint_factor2                             -0.4978     0.1614
## timePoint_factor3                              0.1882     0.1570
## interventiongroupIntervention:timePoint_factor2  -0.8307     0.2239
## interventiongroupIntervention:timePoint_factor3  -1.1464     0.2184
##                                                    df t value Pr(>|t|)
## (Intercept)                                     3.8000  23.190 3.41e-05
## interventiongroupIntervention                1048.7000   0.858 0.390890
## timePoint_factor2                             781.1000  -3.085 0.002109
## timePoint_factor3                             766.8000   1.199 0.231066
## interventiongroupIntervention:timePoint_factor2  768.4000  -3.710 0.000222
## interventiongroupIntervention:timePoint_factor3  755.5000  -5.249 1.98e-07
##
## (Intercept)                                   ***
## interventiongroupIntervention
## timePoint_factor2                             **
## timePoint_factor3
## interventiongroupIntervention:timePoint_factor2 ***
## interventiongroupIntervention:timePoint_factor3 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.437
```

```
## tmPnt_fctr2 -0.335  0.384
## tmPnt_fctr3 -0.344  0.395  0.389
## intrvnI:P_2  0.241 -0.553 -0.720 -0.280
## intrvnI:P_3  0.248 -0.567 -0.279 -0.719  0.399
```

```
Anova(DisMHmean_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: DisMHmean_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                     537.7824  1  < 2.2e-16 ***
## interventiongroup                 0.7368  1  0.3906940
## timePoint_factor                 16.2861  2  0.0002907 ***
## interventiongroup:timePoint_factor  30.6658  2  2.193e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisMHmean_T_model, ~ interventiongroup * timePoint_factor), by = "timePoi
```

```
##  timePoint_factor contrast               estimate        SE      df
##  2                Control - Intervention 0.699829 0.1887539 1099.48
##  t.ratio p.value
##    3.708  0.0002
```

```
DisMH1AnxT_model <- clmm(DisMH1AnxT ~ interventiongroup * timePoint_factor + (1|Locationcode/T1ParticipantID),
summary(DisMH1AnxT_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula:
## DisMH1AnxT ~ interventiongroup * timePoint_factor + (1 | Locationcode/T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik   AIC     niter      max.grad cond.H
##  logit flexible  1119 -2083.55 4193.11 1445(4338) 6.83e-04 3.1e+02
##
## Random effects:
##  Groups                       Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 0.77474  0.8802
##  Locationcode                 (Intercept) 0.04083  0.2021
## Number of groups:  T1ParticipantID:Locationcode 479,  Locationcode 3
##
## Coefficients:
##                                                Estimate Std. Error
## interventiongroupIntervention                    0.1085     0.1839
## timePoint_factor2                               -0.5581     0.1896
## timePoint_factor3                                0.3326     0.1885
## interventiongroupIntervention:timePoint_factor2 -0.9905     0.2663
## interventiongroupIntervention:timePoint_factor3 -1.3110     0.2662
##                                                z value Pr(>|z|)
## interventiongroupIntervention                    0.590  0.55531
## timePoint_factor2                               -2.943  0.00325 **
## timePoint_factor3                                1.764  0.07775 .
## interventiongroupIntervention:timePoint_factor2 -3.719  0.00020 ***
## interventiongroupIntervention:timePoint_factor3 -4.925 8.45e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2  -2.8297     0.2091 -13.532
```

```
## 2|3  -1.4895     0.1876  -7.941
## 3|4  -0.8359     0.1819  -4.596
## 4|5  -0.3393     0.1796  -1.889
## 5|6   0.6122     0.1809   3.384
## 6|7   1.7214     0.1929   8.925
## (321 observations deleted due to missingness)
```

```
Anova(DisMH1AnxT_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisMH1AnxT
##                                  LR Chisq Df Pr(>Chisq)
## interventiongroup                   0.000  1     0.9998
## timePoint_factor                    0.000  2     1.0000
## interventiongroup:timePoint_factor   27.999  2   8.32e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisMH1AnxT_model, ~ interventiongroup * timePoint_factor), by = "timePoin
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 0.8820038 0.2247967 NA   3.924
##  p.value
##   0.0001
```

```
DisMH2DepT_model <- clmm(DisMH2DepT ~ interventiongroup * timePoint_factor + (1|Locationcode/T1ParticipantID),
summary(DisMH2DepT_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula:
## DisMH2DepT ~ interventiongroup * timePoint_factor + (1 | Locationcode/T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik   AIC     niter      max.grad cond.H
##  logit flexible  1118 -2080.32 4186.65 1454(4365) 9.55e-03 2.6e+02
##
## Random effects:
##  Groups                       Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 0.88376  0.9401
##  Locationcode                 (Intercept) 0.04216  0.2053
## Number of groups:  T1ParticipantID:Locationcode 479,  Locationcode 3
##
## Coefficients:
##                                                Estimate Std. Error
## interventiongroupIntervention                    0.1137     0.1866
## timePoint_factor2                               -0.7038     0.1896
## timePoint_factor3                               -0.1717     0.1885
## interventiongroupIntervention:timePoint_factor2  -1.0826     0.2667
## interventiongroupIntervention:timePoint_factor3  -1.1725     0.2674
##                                                z value Pr(>|z|)
## interventiongroupIntervention                    0.610 0.542072
## timePoint_factor2                               -3.713 0.000205 ***
## timePoint_factor3                               -0.911 0.362229
## interventiongroupIntervention:timePoint_factor2  -4.060 4.91e-05 ***
## interventiongroupIntervention:timePoint_factor3  -4.385 1.16e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##      Estimate Std. Error z value
```

```
## 1|2 -2.630267   0.207442 -12.680
## 2|3 -1.355261   0.189218  -7.162
## 3|4 -0.741075   0.183900  -4.030
## 4|5 -0.001108   0.181805  -0.006
## 5|6  0.791005   0.185027   4.275
## 6|7  1.888412   0.199588   9.462
## (322 observations deleted due to missingness)
```

```
Anova(DisMH2DepT_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisMH2DepT
##                                   LR Chisq Df Pr(>Chisq)
## interventiongroup                    0.000  1          1
## timePoint_factor                     0.000  2          1
## interventiongroup:timePoint_factor  25.639  2  2.707e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisMH2DepT_model, ~ interventiongroup * timePoint_factor), by = "timePoin
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 0.9688649 0.2276287 NA   4.256
##  p.value
##   <.0001
```

```
DisMH3AvoidT_model <- clmm(DisMH3AvoidT ~ interventiongroup * timePoint_factor + (1|Locationcode/T1Participant
summary(DisMH3AvoidT_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula:
## DisMH3AvoidT ~ interventiongroup * timePoint_factor + (1 | Locationcode/T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik   AIC     niter      max.grad cond.H
##  logit flexible  1119 -2062.21 4150.42 1538(4616) 2.60e-03 2.8e+02
##
## Random effects:
##  Groups                       Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 0.47964  0.6926
##  Locationcode                 (Intercept) 0.01327  0.1152
## Number of groups:  T1ParticipantID:Locationcode 479,  Locationcode 3
##
## Coefficients:
##                                              Estimate Std. Error
## interventiongroupIntervention                  0.1645     0.1776
## timePoint_factor2                             -0.1252     0.1853
## timePoint_factor3                              0.3639     0.1868
## interventiongroupIntervention:timePoint_factor2 -0.6005     0.2615
## interventiongroupIntervention:timePoint_factor3 -1.0577     0.2650
##                                              z value Pr(>|z|)
## interventiongroupIntervention                  0.926   0.3542
## timePoint_factor2                             -0.675   0.4994
## timePoint_factor3                              1.949   0.0513 .
## interventiongroupIntervention:timePoint_factor2 -2.297   0.0216 *
## interventiongroupIntervention:timePoint_factor3 -3.991 6.58e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
```

```
##     Estimate Std. Error z value
## 1|2  -1.3284     0.1552  -8.558
## 2|3  -0.2916     0.1473  -1.980
## 3|4   0.3604     0.1475   2.442
## 4|5   0.9275     0.1513   6.131
## 5|6   1.5341     0.1591   9.640
## 6|7   2.6849     0.1872  14.344
## (321 observations deleted due to missingness)
```

```
Anova(DisMH3AvoidT_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisMH3AvoidT
##                                   LR Chisq Df Pr(>Chisq)
## interventiongroup                    0.000  1  0.9998405
## timePoint_factor                     0.000  2  1.0000000
## interventiongroup:timePoint_factor  16.575  2  0.0002517 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisMH3AvoidT_model, ~ interventiongroup * timePoint_factor), by = "timePo
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 0.436029 0.2123302 NA   2.054
##  p.value
##   0.0400
```

```
Funcmean_T_model <- lmer(Funcmean_T ~ interventiongroup * timePoint_factor + (1|Locationcode/T1ParticipantID),
summary(Funcmean_T_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula:
## Funcmean_T ~ interventiongroup * timePoint_factor + (1 | Locationcode/T1ParticipantID)
##    Data: filtered
##
## REML criterion at convergence: 3145.2
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -2.21578 -0.66087 -0.09761  0.56085  3.06641
##
## Random effects:
##  Groups                       Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 0.4280   0.6542
##  Locationcode                 (Intercept) 0.0233   0.1527
##  Residual                                 0.7792   0.8827
## Number of obs: 1065, groups:
## T1ParticipantID:Locationcode, 475; Locationcode, 3
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                     2.48149    0.11385
## interventiongroupIntervention                  -0.02811    0.10148
## timePoint_factor2                               0.11413    0.09758
## timePoint_factor3                              -0.51557    0.09760
## interventiongroupIntervention:timePoint_factor2 -0.34576    0.13470
## interventiongroupIntervention:timePoint_factor3 -0.14705    0.13645
##                                                      df t value Pr(>|t|)
## (Intercept)                                     3.70000  21.796 4.45e-05
## interventiongroupIntervention                 890.50000  -0.277   0.7818
```

```
## timePoint_factor2                                681.90000   1.170   0.2426
## timePoint_factor3                                690.20000  -5.282 1.71e-07
## interventiongroupIntervention:timePoint_factor2 674.00000  -2.567   0.0105
## interventiongroupIntervention:timePoint_factor3 681.70000  -1.078   0.2815
##
## (Intercept)                                      ***
## interventiongroupIntervention
## timePoint_factor2
## timePoint_factor3                                ***
## interventiongroupIntervention:timePoint_factor2 *
## interventiongroupIntervention:timePoint_factor3
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.449
## tmPnt_fctr2 -0.303  0.340
## tmPnt_fctr3 -0.305  0.343  0.379
## intrvnI:P_2  0.220 -0.490 -0.724 -0.275
## intrvnI:P_3  0.219 -0.485 -0.271 -0.715  0.386
```

```
Anova(Funcmean_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: Funcmean_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                     475.0786  1  < 2.2e-16 ***
## interventiongroup                 0.0767  1    0.78177
## timePoint_factor                 39.6520  2  2.453e-09 ***
## interventiongroup:timePoint_factor  6.5974  2    0.03693 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(Funcmean_T_model, ~ interventiongroup * timePoint_factor), by = "timePoint
```

```
##  timePoint_factor contrast               estimate        SE      df
##  2                Control - Intervention 0.3738675 0.1227183 1026.65
##  t.ratio p.value
##    3.047  0.0024
```

```
Depmean_T_model <- lmer(Depmean_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID), data = filtered
summary(Depmean_T_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula:
## Depmean_T ~ interventiongroup * timePoint_factor + (1 | T1ParticipantID)
##    Data: filtered
##
## REML criterion at convergence: 2198.5
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -2.4082 -0.6334 -0.1526  0.5022  3.6414
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 0.1756   0.4190
##  Residual                    0.2822   0.5312
## Number of obs: 1119, groups:  T1ParticipantID, 477
```

```
##
## Fixed effects:
##                                                 Estimate Std. Error
## (Intercept)                                     1.912251   0.043949
## interventiongroupIntervention                   0.038463   0.061958
## timePoint_factor2                              -0.008769   0.058006
## timePoint_factor3                              -0.120994   0.056106
## interventiongroupIntervention:timePoint_factor2 -0.347058   0.080398
## interventiongroupIntervention:timePoint_factor3 -0.209148   0.078059
##                                                       df t value
## (Intercept)                                     893.900000  43.511
## interventiongroupIntervention                   893.900000   0.621
## timePoint_factor2                               721.300000  -0.151
## timePoint_factor3                               710.900000  -2.157
## interventiongroupIntervention:timePoint_factor2 712.500000  -4.317
## interventiongroupIntervention:timePoint_factor3 702.900000  -2.679
##                                                 Pr(>|t|)
## (Intercept)                                      < 2e-16 ***
## interventiongroupIntervention                    0.53489
## timePoint_factor2                                0.87989
## timePoint_factor3                                0.03138 *
## interventiongroupIntervention:timePoint_factor2 1.81e-05 ***
## interventiongroupIntervention:timePoint_factor3  0.00755 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.709
## tmPnt_fctr2 -0.467  0.331
## tmPnt_fctr3 -0.483  0.342  0.396
## intrvnI:P_2  0.337 -0.475 -0.721 -0.285
## intrvnI:P_3  0.347 -0.489 -0.284 -0.719  0.403
```

```
Anova(Depmean_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: Depmean_T
##                                      Chisq Df Pr(>Chisq)
## (Intercept)                       1893.2175  1  < 2.2e-16 ***
## interventiongroup                    0.3854  1    0.53473
## timePoint_factor                     5.2344  2    0.07301 .
## interventiongroup:timePoint_factor  19.6900  2  5.301e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(Depmean_T_model, ~ interventiongroup * timePoint_factor), by = "timePoint
```

```
##  timePoint_factor contrast               estimate         SE      df
##  2                Control - Intervention 0.3085944 0.07463444 1064.24
##  t.ratio p.value
##    4.135  <.0001
```

```
Anxmean_T_model <- lmer(Anxmean_T ~ interventiongroup * timePoint_factor + (1|Locationcode/T1ParticipantID), d
summary(Anxmean_T_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula:
## Anxmean_T ~ interventiongroup * timePoint_factor + (1 | Locationcode/T1ParticipantID)
##    Data: filtered
```

```
##
## REML criterion at convergence: 1830.7
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -2.1754 -0.6068 -0.1652  0.4430  3.4789
##
## Random effects:
##  Groups                       Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 0.12130  0.3483
##  Locationcode                 (Intercept) 0.01229  0.1109
##  Residual                                 0.20422  0.4519
## Number of obs: 1119, groups:
## T1ParticipantID:Locationcode, 477; Locationcode, 3
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                     0.71110    0.07398
## interventiongroupIntervention                   0.05910    0.05225
## timePoint_factor2                              -0.04465    0.04932
## timePoint_factor3                              -0.22560    0.04771
## interventiongroupIntervention:timePoint_factor2 -0.27076    0.06836
## interventiongroupIntervention:timePoint_factor3 -0.15165    0.06636
##                                                      df t value Pr(>|t|)
## (Intercept)                                     2.90000   9.613  0.00279
## interventiongroupIntervention                 903.10000   1.131  0.25833
## timePoint_factor2                             727.70000  -0.905  0.36556
## timePoint_factor3                             717.20000  -4.729 2.72e-06
## interventiongroupIntervention:timePoint_factor2 718.60000  -3.961 8.22e-05
## interventiongroupIntervention:timePoint_factor3 709.40000  -2.285  0.02260
##
## (Intercept)                                   **
## interventiongroupIntervention
## timePoint_factor2
## timePoint_factor3                             ***
## interventiongroupIntervention:timePoint_factor2 ***
## interventiongroupIntervention:timePoint_factor3 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.355
## tmPnt_fctr2 -0.236  0.334
## tmPnt_fctr3 -0.244  0.346  0.396
## intrvnI:P_2  0.170 -0.480 -0.721 -0.285
## intrvnI:P_3  0.176 -0.494 -0.284 -0.718  0.403
```

```
Anova(Anxmean_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: Anxmean_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                      92.4019  1  < 2.2e-16 ***
## interventiongroup                 1.2793  1  0.2580317
## timePoint_factor                 23.4686  2  8.014e-06 ***
## interventiongroup:timePoint_factor 16.2556  2  0.0002952 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```r
summary(rbind(pairs(lsmeans::lsmeans(Anxmean_T_model, ~ interventiongroup * timePoint_factor), by = "timePoint
```

```
##  timePoint_factor contrast                estimate         SE      df
##  2                Control - Intervention 0.2116557 0.06307092 1066.44
##  t.ratio p.value
##    3.356  0.0008
```

```r
Cope_T_model <- lmer(Cope_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID), data = filtered)
summary(Cope_T_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula:
## Cope_T ~ interventiongroup * timePoint_factor + (1 | T1ParticipantID)
##    Data: filtered
##
## REML criterion at convergence: 2015.7
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -3.3781 -0.5224  0.0088  0.5170  3.2608
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 0.3059   0.5531
##  Residual                    0.1784   0.4224
## Number of obs: 1118, groups:  T1ParticipantID, 477
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                     3.05626    0.04520
## interventiongroupIntervention                   0.01334    0.06376
## timePoint_factor2                               0.00286    0.04699
## timePoint_factor3                               0.28175    0.04537
## interventiongroupIntervention:timePoint_factor2   0.29207    0.06506
## interventiongroupIntervention:timePoint_factor3   0.31498    0.06307
##                                                      df t value Pr(>|t|)
## (Intercept)                                     696.70000  67.612  < 2e-16
## interventiongroupIntervention                   697.80000   0.209    0.834
## timePoint_factor2                               691.30000   0.061    0.951
## timePoint_factor3                               687.00000   6.210 9.19e-10
## interventiongroupIntervention:timePoint_factor2 686.30000   4.489 8.40e-06
## interventiongroupIntervention:timePoint_factor3 682.20000   4.994 7.51e-07
##
## (Intercept)                                     ***
## interventiongroupIntervention
## timePoint_factor2
## timePoint_factor3                               ***
## interventiongroupIntervention:timePoint_factor2 ***
## interventiongroupIntervention:timePoint_factor3 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.709
## tmPnt_fctr2 -0.354  0.251
## tmPnt_fctr3 -0.367  0.260  0.401
## intrvnI:P_2  0.256 -0.362 -0.722 -0.290
## intrvnI:P_3  0.264 -0.373 -0.289 -0.719  0.408
```

```r
Anova(Cope_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: Cope_T
##                                      Chisq Df Pr(>Chisq)
## (Intercept)                       4571.4438  1  < 2.2e-16 ***
## interventiongroup                    0.0437  1     0.8343
## timePoint_factor                    45.6005  2  1.253e-10 ***
## interventiongroup:timePoint_factor  32.1506  2  1.044e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```r
summary(rbind(pairs(lsmeans::lsmeans(Cope_T_model, ~ interventiongroup * timePoint_factor), by = "timePoint_fa
```

```
##  timePoint_factor contrast                estimate         SE     df
##  2                Control - Intervention -0.3054038 0.07277554 923.89
##  t.ratio p.value
##   -4.197  <.0001
```

```r
cope_models <- lapply(cope_var_names, function(x) clmm(as.formula(paste0(x, ' ~ interventiongroup * timePoint_
cope_models[[1]] <- update(cope_models[[1]], . ~ interventiongroup * timePoint_factor + (1|Locationcode/T1Part
cope_models[[2]] <- update(cope_models[[2]], . ~ interventiongroup * timePoint_factor + (1|Locationcode/T1Part
cope_models[[14]] <- update(cope_models[[14]], . ~ interventiongroup * timePoint_factor + (1|Locationcode/T1Pa
```

```r
SocCohmean_T_model <- lmer(SocCohmean_T ~ interventiongroup * timePoint_factor + (1|Locationcode/T1Participant
summary(SocCohmean_T_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula:
## SocCohmean_T ~ interventiongroup * timePoint_factor + (1 | Locationcode/T1ParticipantID)
##    Data: filtered
##
## REML criterion at convergence: 2858.4
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -2.4394 -0.5574 -0.0190  0.5713  2.9175
##
## Random effects:
##  Groups                       Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 0.25783  0.5078
##  Locationcode                 (Intercept) 0.01036  0.1018
##  Residual                                 0.58236  0.7631
## Number of obs: 1094, groups:
## T1ParticipantID:Locationcode, 476; Locationcode, 3
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                   2.664e+00  8.390e-02
## interventiongroupIntervention                 8.891e-04  8.441e-02
## timePoint_factor2                            -8.833e-02  8.461e-02
## timePoint_factor3                             4.798e-01  8.085e-02
## interventiongroupIntervention:timePoint_factor2  2.112e-01  1.174e-01
## interventiongroupIntervention:timePoint_factor3  3.361e-02  1.123e-01
##                                                      df t value
## (Intercept)                                   4.800e+00  31.754
## interventiongroupIntervention                 9.519e+02   0.011
## timePoint_factor2                             7.337e+02  -1.044
## timePoint_factor3                             7.194e+02   5.935
```

```
## interventiongroupIntervention:timePoint_factor2  7.245e+02   1.799
## interventiongroupIntervention:timePoint_factor3  7.088e+02   0.299
##                                                 Pr(>|t|)
## (Intercept)                                     8.76e-07 ***
## interventiongroupIntervention                     0.9916
## timePoint_factor2                                 0.2968
## timePoint_factor3                               4.58e-09 ***
## interventiongroupIntervention:timePoint_factor2   0.0725 .
## interventiongroupIntervention:timePoint_factor3   0.7649
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.506
## tmPnt_fctr2 -0.351  0.350
## tmPnt_fctr3 -0.369  0.367  0.389
## intrvnI:P_2  0.253 -0.501 -0.720 -0.280
## intrvnI:P_3  0.266 -0.524 -0.279 -0.719  0.395
```

```
Anova(SocCohmean_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: SocCohmean_T
##                                      Chisq Df Pr(>Chisq)
## (Intercept)                       1008.3170  1  < 2.2e-16 ***
## interventiongroup                    0.0001  1     0.9916
## timePoint_factor                    48.4637  2  2.994e-11 ***
## interventiongroup:timePoint_factor   3.4366  2     0.1794
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(SocCohmean_T_model, ~ interventiongroup * timePoint_factor), by = "timePo
```

```
##  timePoint_factor contrast                estimate        SE      df
##  2                Control - Intervention -0.2121278 0.1048338 1070.87
##  t.ratio p.value
##   -2.023  0.0433
```

```
Fatalism_T_model <- lmer(Fatalism_T ~ interventiongroup * timePoint_factor + (1|Locationcode/T1ParticipantID),
summary(Fatalism_T_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula:
## Fatalism_T ~ interventiongroup * timePoint_factor + (1 | Locationcode/T1ParticipantID)
##    Data: filtered
##
## REML criterion at convergence: 3898.1
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -2.70354 -0.65907  0.05332  0.68847  2.56530
##
## Random effects:
##  Groups                       Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 0.77690  0.8814
##  Locationcode                 (Intercept) 0.01323  0.1150
##  Residual                                 1.30202  1.1411
## Number of obs: 1121, groups:
## T1ParticipantID:Locationcode, 479; Locationcode, 3
```

```
##
## Fixed effects:
##                                             Estimate Std. Error
## (Intercept)                                   3.7614     0.1145
## interventiongroupIntervention                -0.1151     0.1318
## timePoint_factor2                            -0.6673     0.1244
## timePoint_factor3                            -0.4631     0.1203
## interventiongroupIntervention:timePoint_factor2  -0.3132     0.1725
## interventiongroupIntervention:timePoint_factor3  -0.6936     0.1675
##                                                  df t value Pr(>|t|)
## (Intercept)                                    6.3000  32.850 3.06e-08
## interventiongroupIntervention                922.0000  -0.874 0.382592
## timePoint_factor2                            756.7000  -5.364 1.08e-07
## timePoint_factor3                            746.6000  -3.848 0.000129
## interventiongroupIntervention:timePoint_factor2 747.1000  -1.815 0.069857
## interventiongroupIntervention:timePoint_factor3 738.0000  -4.141 3.86e-05
##
## (Intercept)                                  ***
## interventiongroupIntervention
## timePoint_factor2                            ***
## timePoint_factor3                            ***
## interventiongroupIntervention:timePoint_factor2 .
## interventiongroupIntervention:timePoint_factor3 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.577
## tmPnt_fctr2 -0.382  0.332
## tmPnt_fctr3 -0.395  0.343  0.394
## intrvnI:P_2  0.276 -0.478 -0.721 -0.284
## intrvnI:P_3  0.284 -0.493 -0.283 -0.718  0.402
```

```
Anova(Fatalism_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: Fatalism_T
##                                     Chisq Df Pr(>Chisq)
## (Intercept)                      1079.0938  1  < 2.2e-16 ***
## interventiongroup                   0.7631  1  0.3823643
## timePoint_factor                   32.3260  2  9.561e-08 ***
## interventiongroup:timePoint_factor   17.1747  2  0.0001865 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(Fatalism_T_model, ~ interventiongroup * timePoint_factor), by = "timePoint
```

```
##  timePoint_factor contrast               estimate       SE      df
##  2                Control - Intervention 0.4283111 0.159313 1073.74
##  t.ratio p.value
##    2.688  0.0073
```

```
HGMHhelpedsomeonerecentflood_T2_model <- glmer(HGMHhelpedsomeonerecentflood_T2 ~ interventiongroup + (1|Locati
summary(HGMHhelpedsomeonerecentflood_T2_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula:
## HGMHhelpedsomeonerecentflood_T2 ~ interventiongroup + (1 | Locationcode)
```

```
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##    172.4    183.6    -83.2    166.4      302
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -0.3713 -0.3703 -0.2083 -0.2078  4.8959
##
## Random effects:
##  Groups       Name        Variance Std.Dev.
##  Locationcode (Intercept) 0.006593 0.0812
## Number of obs: 305, groups:  Locationcode, 3
##
## Fixed effects:
##                               Estimate Std. Error z value Pr(>|z|)
## (Intercept)                    -3.1522     0.4216  -7.478 7.57e-14 ***
## interventiongroupIntervention   1.1557     0.4859   2.378   0.0174 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr)
## intrvntngrI -0.858
```

```
HSDpasthelp_T_model <- glmer(HSDpasthelp_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID), data =
summary(HSDpasthelp_T_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula:
## HSDpasthelp_T ~ interventiongroup * timePoint_factor + (1 | T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##    859.0    881.4   -424.5    849.0      637
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -1.1404 -0.7722 -0.5408  0.6882  1.2495
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 1.174    1.084
## Number of obs: 642, groups:  T1ParticipantID, 389
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                    -0.68453    0.21984
## interventiongroupIntervention                   1.09029    0.30425
## timePoint_factor3                               0.06523    0.27171
## interventiongroupIntervention:timePoint_factor3 -0.10097    0.37345
##                                                z value Pr(>|z|)
## (Intercept)                                     -3.114 0.001847 **
## interventiongroupIntervention                    3.584 0.000339 ***
## timePoint_factor3                                0.240 0.810272
## interventiongroupIntervention:timePoint_factor3  -0.270 0.786880
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
```

```
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_3
## intrvntngrI -0.748
## tmPnt_fctr3 -0.658  0.478
## intrvnI:P_3  0.482 -0.652 -0.728
```

```
summary(rbind(pairs(lsmeans::lsmeans(HSDpasthelp_T_model, ~ interventiongroup * timePoint_factor), by = "timeP
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention -1.090294 0.3042506 NA  -3.584
##  p.value
##   0.0003
##
## Results are given on the log odds ratio (not the response) scale.
```

```
HSDpasthelp_T_ME_model <- glmer(HSDpasthelp_T ~ timePoint_factor + interventiongroup + (1|T1ParticipantID), da
summary(HSDpasthelp_T_ME_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula:
## HSDpasthelp_T ~ timePoint_factor + interventiongroup + (1 | T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##    857.1    875.0   -424.6    849.1      638
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -1.1333 -0.7770 -0.5486  0.6854  1.2324
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 1.172    1.083
## Number of obs: 642, groups:  T1ParticipantID, 389
##
## Fixed effects:
##                               Estimate Std. Error z value Pr(>|z|)
## (Intercept)                   -0.65613    0.19237  -3.411 0.000648 ***
## timePoint_factor3              0.01178    0.18626   0.063 0.949580
## interventiongroupIntervention  1.03703    0.23062   4.497 6.91e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) tmPn_3
## tmPnt_fctr3 -0.510
## intrvntngrI -0.654  0.006
```

```
SocCoh3floodreceivedhelp_T2_model <- glm(SocCoh3floodreceivedhelp_T2 ~ interventiongroup, data = filtered, fam
summary(SocCoh3floodreceivedhelp_T2_model)
```

```
##
## Call:
## glm(formula = SocCoh3floodreceivedhelp_T2 ~ interventiongroup,
##     family = "binomial", data = filtered)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -0.2918  -0.2918  -0.2512  -0.2512   2.6351
##
```

```
## Coefficients:
##                               Estimate Std. Error z value Pr(>|z|)
## (Intercept)                    -3.1355     0.4170  -7.519 5.53e-14 ***
## interventiongroupIntervention  -0.3049     0.6167  -0.494    0.621
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 94.692  on 304  degrees of freedom
## Residual deviance: 94.446  on 303  degrees of freedom
##   (1135 observations deleted due to missingness)
## AIC: 98.446
##
## Number of Fisher Scoring iterations: 6
```

```
SocCoh3dispreprecеivedhelp_T3_model <- glm(SocCoh3dispreprecеivedhelp_T3 ~ interventiongroup, data = filtered,
summary(SocCoh3dispreprecеivedhelp_T3_model)
```

```
##
## Call:
## glm(formula = SocCoh3dispreprecеivedhelp_T3 ~ interventiongroup,
##     family = "binomial", data = filtered)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -0.2774  -0.2774  -0.2429  -0.2429   2.6601
##
## Coefficients:
##                               Estimate Std. Error z value Pr(>|z|)
## (Intercept)                    -3.2387     0.4162  -7.782 7.14e-15 ***
## interventiongroupIntervention  -0.2699     0.6158  -0.438    0.661
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 96.523  on 330  degrees of freedom
## Residual deviance: 96.330  on 329  degrees of freedom
##   (1109 observations deleted due to missingness)
## AIC: 100.33
##
## Number of Fisher Scoring iterations: 6
```

```
HSMHfloodsadness_T_model <- clmm(HSMHfloodsadness_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantI
summary(HSMHfloodsadness_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: HSMHfloodsadness_T ~ interventiongroup * timePoint_factor + (1 |
##     T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik  AIC     niter     max.grad cond.H
##  logit flexible  640  -886.44 1788.88 517(1074) 2.75e-03 1.1e+02
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 0.4252   0.6521
## Number of groups:  T1ParticipantID 389
##
```

```
## Coefficients:
##                                                Estimate Std. Error
## interventiongroupIntervention                  -0.20258    0.22231
## timePoint_factor3                              -0.06801    0.21738
## interventiongroupIntervention:timePoint_factor3  0.21472    0.29987
##                                                z value Pr(>|z|)
## interventiongroupIntervention                   -0.911    0.362
## timePoint_factor3                               -0.313    0.754
## interventiongroupIntervention:timePoint_factor3   0.716    0.474
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 0|1  -0.4651     0.1653  -2.814
## 1|2   0.3440     0.1649   2.086
## 2|3   1.2866     0.1816   7.086
## 3|4   3.9263     0.3261  12.040
## (800 observations deleted due to missingness)
```

```
summary(rbind(pairs(lsmeans::lsmeans(HSMHfloodsadness_T_model, ~ interventiongroup * timePoint_factor), by = "
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 0.2025781 0.2223082 NA   0.911
##  p.value
##   0.3622
```

```
HSMHfloodsadness_T_ME_model <- clmm(HSMHfloodsadness_T ~  timePoint_factor + interventiongroup + (1|T1Particip
summary(HSMHfloodsadness_T_ME_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: HSMHfloodsadness_T ~ timePoint_factor + interventiongroup + (1 |
##     T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik  AIC     niter    max.grad cond.H
##  logit flexible  640  -886.69 1787.39 457(950) 8.64e-04 7.4e+01
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 0.4254   0.6522
## Number of groups:  T1ParticipantID 389
##
## Coefficients:
##                               Estimate Std. Error z value Pr(>|z|)
## timePoint_factor3              0.04470    0.15001   0.298    0.766
## interventiongroupIntervention -0.09453    0.16328  -0.579    0.563
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 0|1  -0.4094     0.1460  -2.803
## 1|2   0.3986     0.1467   2.717
## 2|3   1.3414     0.1655   8.106
## 3|4   3.9821     0.3174  12.545
## (800 observations deleted due to missingness)
```

```
HSMHpasthelp_T_model <- glmer(HSMHpasthelp_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID), dat
summary(HSMHpasthelp_T_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula: HSMHpasthelp_T ~ interventiongroup * timePoint_factor + (1 |
```

```
##     T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##    397.0    416.1   -193.5    387.0      338
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -0.7401 -0.4803 -0.4207  0.9147  1.7854
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 1.216    1.103
## Number of obs: 343, groups:  T1ParticipantID, 266
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                     -1.3608     0.3812
## interventiongroupIntervention                   -0.2937     0.4554
## timePoint_factor3                                0.0315     0.4141
## interventiongroupIntervention:timePoint_factor3  0.5258     0.5830
##                                                z value Pr(>|z|)
## (Intercept)                                     -3.570 0.000358 ***
## interventiongroupIntervention                   -0.645 0.519040
## timePoint_factor3                                0.076 0.939360
## interventiongroupIntervention:timePoint_factor3  0.902 0.367102
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_3
## intrvntngrI -0.558
## tmPnt_fctr3 -0.570  0.475
## intrvnI:P_3  0.373 -0.728 -0.710
```

```
HSMHpasthelp_T_ME_model <- glmer(HSMHpasthelp_T ~ timePoint_factor + interventiongroup + (1|T1ParticipantID),
summary(HSMHpasthelp_T_ME_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula: HSMHpasthelp_T ~ timePoint_factor + interventiongroup + (1 |
##     T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##    395.8    411.1   -193.9    387.8      339
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -0.7031 -0.4849 -0.4280  0.9592  1.6556
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 1.246    1.116
## Number of obs: 343, groups:  T1ParticipantID, 266
##
## Fixed effects:
##                              Estimate Std. Error z value Pr(>|z|)
## (Intercept)                  -1.51023    0.35830  -4.215  2.5e-05 ***
## timePoint_factor3             0.30001    0.29117   1.030    0.303
```

```
## interventiongroupIntervention  0.00604    0.31273   0.019    0.985
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) tmPn_3
## tmPnt_fctr3 -0.472
## intrvntngrI -0.459 -0.053
```

```
HSMHDistressfault_T_model <- clmm(HSMHDistressfault_T ~ interventiongroup * timePoint_factor + (1|T1Participan
summary(HSMHDistressfault_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: HSMHDistressfault_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik  AIC    niter     max.grad cond.H
##  logit flexible  1113 -469.08 956.16 568(4055) 1.33e-04 1.0e+03
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 11.67    3.416
## Number of groups:  T1ParticipantID 476
##
## Coefficients:
##                                              Estimate Std. Error
## interventiongroupIntervention                -0.43050    0.50516
## timePoint_factor2                             0.53449    0.41032
## timePoint_factor3                             0.47328    0.38901
## interventiongroupIntervention:timePoint_factor2 -0.54295    0.61792
## interventiongroupIntervention:timePoint_factor3 -0.08641    0.58242
##                                              z value Pr(>|z|)
## interventiongroupIntervention                 -0.852    0.394
## timePoint_factor2                              1.303    0.193
## timePoint_factor3                              1.217    0.224
## interventiongroupIntervention:timePoint_factor2  -0.879    0.380
## interventiongroupIntervention:timePoint_factor3  -0.148    0.882
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2   4.6785     0.9845   4.752
## 2|3   5.7584     1.0711   5.376
## 3|4   7.5476     1.2158   6.208
## (327 observations deleted due to missingness)
```

```
Anova(HSMHDistressfault_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: HSMHDistressfault_T
##                                    LR Chisq Df Pr(>Chisq)
## interventiongroup                   0.00096  1     0.9753
## timePoint_factor                   -0.00331  2     1.0000
## interventiongroup:timePoint_factor  0.90205  2     0.6370
```

```
summary(rbind(pairs(lsmeans::lsmeans(HSMHDistressfault_T_model, ~ interventiongroup * timePoint_factor), by =
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 0.9734562 0.5766404 NA   1.688
##  p.value
```

```
##   0.0914
```

```
HelpGivingDisGen_T_model <- glmer(cbind(HelpGivingDisGen_T, 2-HelpGivingDisGen_T) ~ interventiongroup * timePo
summary(HelpGivingDisGen_T_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula:
## cbind(HelpGivingDisGen_T, 2 - HelpGivingDisGen_T) ~ interventiongroup *
##     timePoint_factor + (1 | T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##   2211.6   2246.7  -1098.8   2197.6     1104
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -4.2768 -0.6326  0.0914  0.6656  4.2404
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 2.475    1.573
## Number of obs: 1111, groups:  T1ParticipantID, 476
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                     -1.2932     0.1678
## interventiongroupIntervention                    0.3561     0.2259
## timePoint_factor2                                0.3165     0.2023
## timePoint_factor3                                1.6599     0.2044
## interventiongroupIntervention:timePoint_factor2  1.7053     0.2819
## interventiongroupIntervention:timePoint_factor3  1.3728     0.2929
##                                                z value Pr(>|z|)
## (Intercept)                                     -7.708 1.27e-14 ***
## interventiongroupIntervention                    1.577    0.115
## timePoint_factor2                                1.564    0.118
## timePoint_factor3                                8.121 4.61e-16 ***
## interventiongroupIntervention:timePoint_factor2  6.050 1.45e-09 ***
## interventiongroupIntervention:timePoint_factor3  4.687 2.77e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.713
## tmPnt_fctr2 -0.458  0.332
## tmPnt_fctr3 -0.525  0.361  0.414
## intrvnI:P_2  0.287 -0.447 -0.706 -0.255
## intrvnI:P_3  0.304 -0.453 -0.272 -0.636  0.402
```

```
Anova(HelpGivingDisGen_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: cbind(HelpGivingDisGen_T, 2 - HelpGivingDisGen_T)
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                      59.4183  1  1.275e-14 ***
## interventiongroup                 2.4854  1     0.1149
## timePoint_factor                 69.8510  2  6.793e-16 ***
## interventiongroup:timePoint_factor 42.6549  2  5.465e-10 ***
```

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(HelpGivingDisGen_T_model, ~ interventiongroup * timePoint_factor), by = "
```

```
##  timePoint_factor contrast               estimate       SE df z.ratio
##  2                Control - Intervention -2.061375 0.271179 NA  -7.602
##  p.value
##   <.0001
##
## Results are given on the log odds ratio (not the response) scale.
```

```
HGDfuturedisprephelp_T_model <- glmer(HGDfuturedisprephelp_T ~ interventiongroup * timePoint_factor + (1|T1Par
summary(HGDfuturedisprephelp_T_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula: HGDfuturedisprephelp_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##   1330.9   1366.1   -658.5   1316.9     1108
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -2.5746 -0.6162 -0.3809  0.6218  2.1793
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 1.045    1.022
## Number of obs: 1115, groups:  T1ParticipantID, 476
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                     -1.2594     0.1872
## interventiongroupIntervention                    0.2424     0.2441
## timePoint_factor2                                0.2996     0.2597
## timePoint_factor3                                1.3203     0.2542
## interventiongroupIntervention:timePoint_factor2  1.5431     0.3632
## interventiongroupIntervention:timePoint_factor3  1.4634     0.3655
##                                                z value Pr(>|z|)
## (Intercept)                                     -6.728 1.72e-11 ***
## interventiongroupIntervention                    0.993    0.321
## timePoint_factor2                                1.153    0.249
## timePoint_factor3                                5.195 2.05e-07 ***
## interventiongroupIntervention:timePoint_factor2  4.249 2.15e-05 ***
## interventiongroupIntervention:timePoint_factor3  4.004 6.24e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.692
## tmPnt_fctr2 -0.560  0.415
## tmPnt_fctr3 -0.648  0.439  0.426
## intrvnI:P_2  0.318 -0.560 -0.699 -0.241
## intrvnI:P_3  0.332 -0.563 -0.272 -0.603  0.424
```

```
Anova(HGDfuturedisprephelp_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: HGDfuturedisprephelp_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                      45.2691  1  1.717e-11 ***
## interventiongroup                 0.9863  1     0.3207
## timePoint_factor                 28.3499  2  6.981e-07 ***
## interventiongroup:timePoint_factor 23.9729  2  6.228e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(HGDfuturedisprephelp_T_model, ~ interventiongroup * timePoint_factor), by
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention -1.785542 0.3036791 NA   -5.88
##  p.value
##   <.0001
##
## Results are given on the log odds ratio (not the response) scale.
```

```
HGDfutureafterdishelp_T_model <- glmer(HGDfutureafterdishelp_T ~ interventiongroup * timePoint_factor + (1|T1P
summary(HGDfutureafterdishelp_T_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula: HGDfutureafterdishelp_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##   1345.5   1380.6   -665.8   1331.5     1106
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -2.6988 -0.6437  0.2593  0.6015  1.9150
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 1.073    1.036
## Number of obs: 1113, groups:  T1ParticipantID, 476
##
## Fixed effects:
##                                              Estimate Std. Error
## (Intercept)                                   -0.8955     0.1753
## interventiongroupIntervention                  0.2687     0.2353
## timePoint_factor2                              0.1731     0.2515
## timePoint_factor3                              1.4454     0.2569
## interventiongroupIntervention:timePoint_factor2   1.6382     0.3604
## interventiongroupIntervention:timePoint_factor3   1.1620     0.3670
##                                              z value Pr(>|z|)
## (Intercept)                                   -5.109 3.24e-07 ***
## interventiongroupIntervention                  1.142  0.25341
## timePoint_factor2                              0.688  0.49135
## timePoint_factor3                              5.626 1.84e-08 ***
## interventiongroupIntervention:timePoint_factor2   4.546 5.48e-06 ***
## interventiongroupIntervention:timePoint_factor3   3.166  0.00155 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
```

```
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.704
## tmPnt_fctr2 -0.553  0.403
## tmPnt_fctr3 -0.618  0.415  0.397
## intrvnI:P_2  0.320 -0.532 -0.683 -0.203
## intrvnI:P_3  0.349 -0.533 -0.260 -0.605  0.380
```

```
Anova(HGDfutureafterdishelp_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: HGDfutureafterdishelp_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                      26.0989  1  3.244e-07 ***
## interventiongroup                 1.3044  1     0.2534
## timePoint_factor                 34.4987  2  3.226e-08 ***
## interventiongroup:timePoint_factor 23.0842  2  9.712e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(HGDfutureafterdishelp_T_model, ~ interventiongroup * timePoint_factor), by
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention -1.906866 0.3082797 NA  -6.186
##  p.value
##   <.0001
##
## Results are given on the log odds ratio (not the response) scale.
```

```
HelpGivingMental_T_model <- glmer(cbind(HelpGivingMental_T, 2-HelpGivingMental_T) ~ interventiongroup * timePo
summary(HelpGivingMental_T_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula:
## cbind(HelpGivingMental_T, 2 - HelpGivingMental_T) ~ interventiongroup *
##     timePoint_factor + (1 | T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##   2051.9   2086.9  -1019.0   2037.9     1092
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -2.3136 -0.6616 -0.3799  0.7474  3.2564
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 0.7911   0.8894
## Number of obs: 1099, groups:  T1ParticipantID, 475
##
## Fixed effects:
##                                             Estimate Std. Error
## (Intercept)                                -1.26709    0.13269
## interventiongroupIntervention              -0.04363    0.18191
## timePoint_factor2                          -0.75970    0.21429
## timePoint_factor3                           0.34970    0.17791
## interventiongroupIntervention:timePoint_factor2  2.62127    0.28133
## interventiongroupIntervention:timePoint_factor3  1.39445    0.24694
##                                            z value Pr(>|z|)
## (Intercept)                                 -9.549  < 2e-16 ***
```

```
## interventiongroupIntervention                    -0.240 0.810474
## timePoint_factor2                                -3.545 0.000392 ***
## timePoint_factor3                                 1.966 0.049347 *
## interventiongroupIntervention:timePoint_factor2   9.317  < 2e-16 ***
## interventiongroupIntervention:timePoint_factor3   5.647 1.63e-08 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.688
## tmPnt_fctr2 -0.440  0.332
## tmPnt_fctr3 -0.567  0.405  0.353
## intrvnI:P_2  0.301 -0.512 -0.771 -0.262
## intrvnI:P_3  0.372 -0.586 -0.265 -0.713  0.416
```

```
Anova(HelpGivingMental_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: cbind(HelpGivingMental_T, 2 - HelpGivingMental_T)
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                      91.1923  1  < 2.2e-16 ***
## interventiongroup                 0.0575  1     0.8105
## timePoint_factor                 24.3947  2  5.044e-06 ***
## interventiongroup:timePoint_factor 90.5972  2  < 2.2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(HelpGivingMental_T_model, ~ interventiongroup * timePoint_factor), by = "
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention -2.577645 0.2446188 NA -10.537
##  p.value
##   <.0001
##
## Results are given on the log odds ratio (not the response) scale.
```

```
HGMHfuturehelp_T_model <- glmer(HGMHfuturehelp_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID),
summary(HGMHfuturehelp_T_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula: HGMHfuturehelp_T ~ interventiongroup * timePoint_factor + (1 |
##     T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##   1440.7   1475.8   -713.4   1426.7     1108
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -1.7505 -0.7578 -0.3983  0.8799  2.0339
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 0.5652   0.7518
## Number of obs: 1115, groups:  T1ParticipantID, 476
##
## Fixed effects:
##                                          Estimate Std. Error
```

```
## (Intercept)                                       -0.28051    0.14862
## interventiongroupIntervention                     -0.06809    0.20970
## timePoint_factor2                                 -1.11077    0.25571
## timePoint_factor3                                  0.03775    0.22277
## interventiongroupIntervention:timePoint_factor2  2.16301    0.34941
## interventiongroupIntervention:timePoint_factor3  1.35751    0.32294
##                                                  z value Pr(>|z|)
## (Intercept)                                       -1.887   0.0591 .
## interventiongroupIntervention                     -0.325   0.7454
## timePoint_factor2                                 -4.344 1.40e-05 ***
## timePoint_factor3                                  0.169   0.8654
## interventiongroupIntervention:timePoint_factor2   6.190 6.00e-10 ***
## interventiongroupIntervention:timePoint_factor3   4.204 2.63e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.703
## tmPnt_fctr2 -0.501  0.368
## tmPnt_fctr3 -0.592  0.419  0.349
## intrvnI:P_2  0.357 -0.540 -0.751 -0.254
## intrvnI:P_3  0.395 -0.583 -0.268 -0.688  0.393
```

```
Anova(HGMHfuturehelp_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: HGMHfuturehelp_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                       3.5621  1    0.05911 .
## interventiongroup                 0.1054  1    0.74542
## timePoint_factor                 22.1059  2  1.584e-05 ***
## interventiongroup:timePoint_factor 42.0322  2  7.462e-10 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(HGMHfuturehelp_T_model, ~ interventiongroup * timePoint_factor), by = "ti
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention -2.094924 0.2948614 NA  -7.105
##  p.value
##   <.0001
##
## Results are given on the log odds ratio (not the response) scale.
```

```
HGMHskillshelp_T_model <- glmer(HGMHskillshelp_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID),
summary(HGMHskillshelp_T_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula: HGMHskillshelp_T ~ interventiongroup * timePoint_factor + (1 |
##     T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##    901.9    936.9   -444.0    887.9     1093
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -1.6797 -0.3575 -0.2005 -0.1502  4.7399
```

```
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 1.036    1.018
## Number of obs: 1100, groups:  T1ParticipantID, 475
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                     -3.1741     0.3407
## interventiongroupIntervention                    0.1414     0.4011
## timePoint_factor2                                0.1511     0.4435
## timePoint_factor3                                1.3088     0.3641
## interventiongroupIntervention:timePoint_factor2  3.3261     0.5829
## interventiongroupIntervention:timePoint_factor3  1.5769     0.4934
##                                                z value Pr(>|z|)
## (Intercept)                                     -9.316  < 2e-16 ***
## interventiongroupIntervention                    0.353 0.724436
## timePoint_factor2                                0.341 0.733356
## timePoint_factor3                                3.595 0.000325 ***
## interventiongroupIntervention:timePoint_factor2  5.706 1.16e-08 ***
## interventiongroupIntervention:timePoint_factor3  3.196 0.001392 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.644
## tmPnt_fctr2 -0.514  0.445
## tmPnt_fctr3 -0.698  0.551  0.496
## intrvnI:P_2  0.228 -0.631 -0.767 -0.343
## intrvnI:P_3  0.366 -0.754 -0.372 -0.707  0.599
```

```
Anova(HGMHskillshelp_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: HGMHskillshelp_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                      86.7836  1  < 2.2e-16 ***
## interventiongroup                 0.1243  1  0.7244359
## timePoint_factor                 15.6715  2  0.0003953 ***
## interventiongroup:timePoint_factor 32.6364  2  8.186e-08 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(HGMHskillshelp_T_model, ~ interventiongroup * timePoint_factor), by = "ti
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention -3.467524 0.4533331 NA  -7.649
##  p.value
##   <.0001
##
## Results are given on the log odds ratio (not the response) scale.
```

```
HSDfuturehelp_T_model <- clmm(HSDfuturehelp_T ~ interventiongroup * timePoint_factor + (1|Locationcode/T1Parti
summary(HSDfuturehelp_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: HSDfuturehelp_T ~ interventiongroup * timePoint_factor + (1 |
##     Locationcode/T1ParticipantID)
## data:    filtered
```

```
##
##  link  threshold nobs logLik   AIC     niter      max.grad cond.H
##  logit flexible  1115 -1474.01 2968.03 1007(3024) 1.70e-03 1.0e+02
##
## Random effects:
##  Groups                       Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 1.00332  1.0017
##  Locationcode                 (Intercept) 0.03682  0.1919
## Number of groups:  T1ParticipantID:Locationcode 475,  Locationcode 3
##
## Coefficients:
##                                                Estimate Std. Error
## interventiongroupIntervention                   0.07983    0.20617
## timePoint_factor2                              -0.07062    0.20588
## timePoint_factor3                               0.12199    0.19846
## interventiongroupIntervention:timePoint_factor2  0.59114    0.28566
## interventiongroupIntervention:timePoint_factor3  0.52937    0.27663
##                                                z value Pr(>|z|)
## interventiongroupIntervention                    0.387   0.6986
## timePoint_factor2                               -0.343   0.7316
## timePoint_factor3                                0.615   0.5388
## interventiongroupIntervention:timePoint_factor2   2.069   0.0385 *
## interventiongroupIntervention:timePoint_factor3   1.914   0.0557 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2  -0.5546     0.1868  -2.969
## 2|3   0.8045     0.1889   4.258
## 3|4   2.1639     0.2043  10.589
## (325 observations deleted due to missingness)
```

```
Anova(HSDfuturehelp_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: HSDfuturehelp_T
##                                   LR Chisq Df Pr(>Chisq)
## interventiongroup                   0.0000  1    0.99997
## timePoint_factor                    0.0000  2    1.00000
## interventiongroup:timePoint_factor   5.5236  2    0.06318 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(HSDfuturehelp_T_model, ~ interventiongroup * timePoint_factor), by = "tim
```

```
##  timePoint_factor contrast                estimate        SE df z.ratio
##  2                Control - Intervention -0.6709773 0.2377609 NA  -2.822
##  p.value
##   0.0048
```

```
HSMHfuturehelp_T_model <- clmm(HSMHfuturehelp_T ~ interventiongroup * timePoint_factor + (1|Locationcode/T1Par
summary(HSMHfuturehelp_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: HSMHfuturehelp_T ~ interventiongroup * timePoint_factor + (1 |
##     Locationcode/T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik   AIC     niter     max.grad cond.H
```

```
##  logit flexible  1112 -1486.74 2993.48 821(2464) 2.92e-03 1.2e+02
##
## Random effects:
##  Groups                       Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 0.43237  0.65755
##  Locationcode                 (Intercept) 0.00303  0.05505
## Number of groups:  T1ParticipantID:Locationcode 476,  Locationcode 3
##
## Coefficients:
##                                                Estimate Std. Error
## interventiongroupIntervention                   0.36627    0.18865
## timePoint_factor2                               0.09957    0.20176
## timePoint_factor3                               0.50985    0.19274
## interventiongroupIntervention:timePoint_factor2  0.20163    0.27771
## interventiongroupIntervention:timePoint_factor3  0.20479    0.26676
##                                                z value Pr(>|z|)
## interventiongroupIntervention                    1.941  0.05220 .
## timePoint_factor2                                0.494  0.62164
## timePoint_factor3                                2.645  0.00816 **
## interventiongroupIntervention:timePoint_factor2   0.726  0.46782
## interventiongroupIntervention:timePoint_factor3   0.768  0.44268
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2  -0.2918     0.1407  -2.073
## 2|3   0.9047     0.1448   6.248
## 3|4   1.9963     0.1591  12.551
## (328 observations deleted due to missingness)
```

```
Anova(HSMHfuturehelp_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: HSMHfuturehelp_T
##                                  LR Chisq Df Pr(>Chisq)
## interventiongroup                 0.00000  1     1.0000
## timePoint_factor                  0.00000  2     1.0000
## interventiongroup:timePoint_factor  0.77797  2     0.6777
```

```
summary(rbind(pairs(lsmeans::lsmeans(HSMHfuturehelp_T_model, ~ interventiongroup * timePoint_factor), by = "ti
```

```
##  timePoint_factor contrast                estimate       SE df z.ratio
##  2                Control - Intervention -0.5679013 0.221691 NA  -2.562
##  p.value
##   0.0104
```

```
HSMHfuturehelp1god_T_model <- glmer(HSMHfuturehelp1god_T ~ interventiongroup * timePoint_factor + (1|T1Partici
summary(HSMHfuturehelp1god_T_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula: HSMHfuturehelp1god_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##    313.4    348.4   -149.7    299.4     1101
##
## Scaled residuals:
```

```
##     Min      1Q  Median      3Q     Max
## -5.4338  0.0050  0.0068  0.0184  2.4480
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 70.21    8.379
## Number of obs: 1108, groups:  T1ParticipantID, 476
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                      9.5016     1.0497
## interventiongroupIntervention                    2.2998     1.4164
## timePoint_factor2                               -1.5438     0.8365
## timePoint_factor3                                0.4767     0.8893
## interventiongroupIntervention:timePoint_factor2 -2.8894     1.3338
## interventiongroupIntervention:timePoint_factor3 -1.7401     1.3434
##                                                z value Pr(>|z|)
## (Intercept)                                      9.052   <2e-16 ***
## interventiongroupIntervention                    1.624   0.1044
## timePoint_factor2                               -1.846   0.0650 .
## timePoint_factor3                                0.536   0.5919
## interventiongroupIntervention:timePoint_factor2 -2.166   0.0303 *
## interventiongroupIntervention:timePoint_factor3 -1.295   0.1952
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.364
## tmPnt_fctr2 -0.580  0.359
## tmPnt_fctr3 -0.303  0.234  0.445
## intrvnI:P_2  0.197 -0.770 -0.596 -0.284
## intrvnI:P_3  0.181 -0.453 -0.291 -0.663  0.500
```

```
Anova(HSMHfuturehelp1god_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: HSMHfuturehelp1god_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                      81.9309  1    < 2e-16 ***
## interventiongroup                 2.6363  1    0.10445
## timePoint_factor                  5.7037  2    0.05774 .
## interventiongroup:timePoint_factor  4.7528  2    0.09288 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(HSMHfuturehelp1god_T_model, ~ interventiongroup * timePoint_factor), by =
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 0.5895617 0.9358256 NA    0.63
##  p.value
##   0.5287
##
## Results are given on the log odds ratio (not the response) scale.
```

```
HSMHfuturehelp2pastor_T_model <- glmer(HSMHfuturehelp2pastor_T ~ interventiongroup * timePoint_factor + (1|Loc
summary(HSMHfuturehelp2pastor_T_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
```

```
## Formula: HSMHfuturehelp2pastor_T ~ interventiongroup * timePoint_factor +
##     (1 | Locationcode/T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##   1340.8   1380.8   -662.4   1324.8     1095
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -1.1203 -0.6578 -0.5073  1.0272  2.6118
##
## Random effects:
##  Groups                       Name        Variance  Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 4.411e-08 0.00021
##  Locationcode                 (Intercept) 6.407e-02 0.25312
## Number of obs: 1103, groups:
## T1ParticipantID:Locationcode, 476; Locationcode, 3
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                     -0.1570     0.1969
## interventiongroupIntervention                    0.1016     0.1860
## timePoint_factor2                               -1.1114     0.2416
## timePoint_factor3                               -1.4829     0.2503
## interventiongroupIntervention:timePoint_factor2  0.3272     0.3244
## interventiongroupIntervention:timePoint_factor3  0.3273     0.3345
##                                                z value Pr(>|z|)
## (Intercept)                                     -0.797    0.425
## interventiongroupIntervention                    0.546    0.585
## timePoint_factor2                               -4.600 4.23e-06 ***
## timePoint_factor3                               -5.925 3.13e-09 ***
## interventiongroupIntervention:timePoint_factor2  1.009    0.313
## interventiongroupIntervention:timePoint_factor3  0.978    0.328
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.475
## tmPnt_fctr2 -0.364  0.386
## tmPnt_fctr3 -0.351  0.372  0.291
## intrvnI:P_2  0.272 -0.573 -0.743 -0.215
## intrvnI:P_3  0.264 -0.556 -0.215 -0.744  0.319
```

```
Anova(HSMHfuturehelp2pastor_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: HSMHfuturehelp2pastor_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                       0.6359  1     0.4252
## interventiongroup                 0.2984  1     0.5849
## timePoint_factor                 44.1359  2  2.606e-10 ***
## interventiongroup:timePoint_factor  1.4973  2     0.4730
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(HSMHfuturehelp2pastor_T_model, ~ interventiongroup * timePoint_factor), by
```

```
##  timePoint_factor contrast                estimate        SE df z.ratio
##  2                Control - Intervention -0.4288665 0.2658814 NA  -1.613
```

```
##  p.value
##   0.1067
##
## Results are given on the log odds ratio (not the response) scale.
```

```
HSMHfuturehelp3voodoo_T_model <- glmer(HSMHfuturehelp3voodoo_T ~ interventiongroup * timePoint_factor + (1|T1P
summary(HSMHfuturehelp3voodoo_T_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula: HSMHfuturehelp3voodoo_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##    442.8    477.8   -214.4    428.8     1087
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -1.66223 -0.02128 -0.01735 -0.01539  2.75886
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 55.99    7.482
## Number of obs: 1094, groups:  T1ParticipantID, 474
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                     -8.0618     0.8447
## interventiongroupIntervention                   -0.2254     0.8742
## timePoint_factor2                               -1.3151     0.8177
## timePoint_factor3                                0.4083     0.6790
## interventiongroupIntervention:timePoint_factor2  1.5102     1.0645
## interventiongroupIntervention:timePoint_factor3  0.4734     0.9267
##                                                z value Pr(>|z|)
## (Intercept)                                     -9.544   <2e-16 ***
## interventiongroupIntervention                   -0.258    0.797
## timePoint_factor2                               -1.608    0.108
## timePoint_factor3                                0.601    0.548
## interventiongroupIntervention:timePoint_factor2  1.419    0.156
## interventiongroupIntervention:timePoint_factor3  0.511    0.609
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.491
## tmPnt_fctr2 -0.154  0.221
## tmPnt_fctr3 -0.411  0.371  0.381
## intrvnI:P_2  0.108 -0.377 -0.770 -0.292
## intrvnI:P_3  0.252 -0.554 -0.287 -0.730  0.411
```

```
Anova(HSMHfuturehelp3voodoo_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: HSMHfuturehelp3voodoo_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                      91.0955  1     <2e-16 ***
## interventiongroup                 0.0665  1     0.7965
```

```
## timePoint_factor                    4.3129  2     0.1157
## interventiongroup:timePoint_factor  2.0191  2     0.3644
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(HSMHfuturehelp3voodoo_T_model, ~ interventiongroup * timePoint_factor), by
```

```
##  timePoint_factor contrast               estimate       SE df z.ratio
##  2                Control - Intervention -1.284789 1.093698 NA  -1.175
##  p.value
##   0.2401
##
## Results are given on the log odds ratio (not the response) scale.
```

```
HSMHfuturehelp4neighbor_T_model <- glmer(HSMHfuturehelp4neighbor_T ~ interventiongroup * timePoint_factor + (1
summary(HSMHfuturehelp4neighbor_T_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula:
## HSMHfuturehelp4neighbor_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##   1428.6   1463.6   -707.3   1414.6     1097
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -1.0945 -0.7483 -0.5482  1.0374  1.8660
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 0.31     0.5568
## Number of obs: 1104, groups:  T1ParticipantID, 476
##
## Fixed effects:
##                                             Estimate Std. Error
## (Intercept)                                -0.40700    0.14301
## interventiongroupIntervention               0.38295    0.20005
## timePoint_factor2                          -0.61305    0.23970
## timePoint_factor3                          -0.87125    0.23938
## interventiongroupIntervention:timePoint_factor2 -0.07505    0.32574
## interventiongroupIntervention:timePoint_factor3  0.36456    0.31921
##                                            z value Pr(>|z|)
## (Intercept)                                 -2.846 0.004429 **
## interventiongroupIntervention                1.914 0.055585 .
## timePoint_factor2                           -2.558 0.010540 *
## timePoint_factor3                           -3.640 0.000273 ***
## interventiongroupIntervention:timePoint_factor2  -0.230 0.817779
## interventiongroupIntervention:timePoint_factor3   1.142 0.253424
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.715
## tmPnt_fctr2 -0.544  0.388
## tmPnt_fctr3 -0.538  0.384  0.342
## intrvnI:P_2  0.412 -0.575 -0.729 -0.238
```

```
## intrvnI:P_3  0.411 -0.580 -0.252 -0.741  0.360
```

```
Anova(HSMHfuturehelp4neighbor_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: HSMHfuturehelp4neighbor_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                       8.0991  1  0.0044287 **
## interventiongroup                 3.6644  1  0.0555851 .
## timePoint_factor                 15.2028  2  0.0004997 ***
## interventiongroup:timePoint_factor  1.7778  2  0.4111068
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(HSMHfuturehelp4neighbor_T_model, ~ interventiongroup * timePoint_factor),
```

```
##  timePoint_factor contrast                estimate        SE df z.ratio
##  2                Control - Intervention -0.3078993 0.2668796 NA  -1.154
##  p.value
##   0.2486
##
## Results are given on the log odds ratio (not the response) scale.
```

```
HSMHfuturehelp5familyfriend_T_model <- glmer(HSMHfuturehelp5familyfriend_T ~ interventiongroup * timePoint_fac
summary(HSMHfuturehelp5familyfriend_T_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula:
## HSMHfuturehelp5familyfriend_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##   1185.0   1220.0   -585.5   1171.0     1095
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -2.2845  0.3667  0.4294  0.5199  0.8678
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 0.4214   0.6491
## Number of obs: 1102, groups:  T1ParticipantID, 476
##
## Fixed effects:
##                                              Estimate Std. Error
## (Intercept)                                    1.6513     0.1943
## interventiongroupIntervention                  0.1498     0.2600
## timePoint_factor2                             -0.9788     0.2610
## timePoint_factor3                             -0.9691     0.2534
## interventiongroupIntervention:timePoint_factor2   0.2806     0.3673
## interventiongroupIntervention:timePoint_factor3   0.6536     0.3675
##                                              z value Pr(>|z|)
## (Intercept)                                    8.499  < 2e-16 ***
## interventiongroupIntervention                  0.576 0.564546
## timePoint_factor2                             -3.750 0.000177 ***
## timePoint_factor3                             -3.824 0.000131 ***
## interventiongroupIntervention:timePoint_factor2   0.764 0.444861
## interventiongroupIntervention:timePoint_factor3   1.779 0.075281 .
```

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.633
## tmPnt_fctr2 -0.667  0.448
## tmPnt_fctr3 -0.694  0.461  0.500
## intrvnI:P_2  0.450 -0.667 -0.700 -0.343
## intrvnI:P_3  0.465 -0.665 -0.339 -0.683  0.481
```

```
Anova(HSMHfuturehelp5familyfriend_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: HSMHfuturehelp5familyfriend_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                      72.2331  1  < 2.2e-16 ***
## interventiongroup                 0.3319  1     0.5645
## timePoint_factor                 19.1242  2  7.034e-05 ***
## interventiongroup:timePoint_factor  3.1749  2     0.2044
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(HSMHfuturehelp5familyfriend_T_model, ~ interventiongroup * timePoint_fact
```

```
##  timePoint_factor contrast                estimate        SE df z.ratio
##  2                Control - Intervention -0.4303598 0.2741907 NA   -1.57
##  p.value
##   0.1165
##
## Results are given on the log odds ratio (not the response) scale.
```

```
HSMHfuturehelp6hospital_T_model <- glmer(HSMHfuturehelp6hospital_T ~ interventiongroup * timePoint_factor + (1
summary(HSMHfuturehelp6hospital_T_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula:
## HSMHfuturehelp6hospital_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##   1407.5   1442.5   -696.7   1393.5     1089
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -1.8452 -0.5838 -0.3204  0.7122  2.0186
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 2.411    1.553
## Number of obs: 1096, groups:  T1ParticipantID, 476
##
## Fixed effects:
##                                            Estimate Std. Error
## (Intercept)                                 -0.1838     0.1926
## interventiongroupIntervention                0.0458     0.2712
## timePoint_factor2                           -1.0412     0.2865
## timePoint_factor3                            0.2331     0.2615
```

```
## interventiongroupIntervention:timePoint_factor2   0.3316     0.3882
## interventiongroupIntervention:timePoint_factor3   0.6122     0.3681
##                                                  z value Pr(>|z|)
## (Intercept)                                       -0.955 0.339795
## interventiongroupIntervention                      0.169 0.865922
## timePoint_factor2                                 -3.634 0.000279 ***
## timePoint_factor3                                  0.891 0.372685
## interventiongroupIntervention:timePoint_factor2   0.854 0.393003
## interventiongroupIntervention:timePoint_factor3   1.663 0.096288 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.709
## tmPnt_fctr2 -0.466  0.335
## tmPnt_fctr3 -0.525  0.372  0.363
## intrvnI:P_2  0.349 -0.495 -0.722 -0.272
## intrvnI:P_3  0.368 -0.523 -0.273 -0.706  0.382
```

```
Anova(HSMHfuturehelp6hospital_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: HSMHfuturehelp6hospital_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                       0.9112  1     0.3398
## interventiongroup                 0.0285  1     0.8659
## timePoint_factor                 18.8238  2  8.174e-05 ***
## interventiongroup:timePoint_factor  2.8223  2     0.2439
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(HSMHfuturehelp6hospital_T_model, ~ interventiongroup * timePoint_factor),
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention -0.377422 0.3463447 NA   -1.09
##  p.value
##   0.2758
##
## Results are given on the log odds ratio (not the response) scale.
```

```
HSMHfuturehelp7MHworker_T_model <- glmer(HSMHfuturehelp7MHworker_T ~ interventiongroup * timePoint_factor + (1
summary(HSMHfuturehelp7MHworker_T_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula:
## HSMHfuturehelp7MHworker_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
##   1387.4   1422.4   -686.7   1373.4     1097
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -2.2497 -0.6003 -0.2728  0.6036  2.0964
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
```

```
##  T1ParticipantID (Intercept) 2.575    1.605
## Number of obs: 1104, groups:  T1ParticipantID, 476
##
## Fixed effects:
##                                             Estimate Std. Error
## (Intercept)                                  -0.6115     0.1999
## interventiongroupIntervention                 0.1601     0.2769
## timePoint_factor2                            -0.6593     0.2883
## timePoint_factor3                             1.1874     0.2757
## interventiongroupIntervention:timePoint_factor2   0.8199     0.3902
## interventiongroupIntervention:timePoint_factor3   0.4910     0.3796
##                                             z value Pr(>|z|)
## (Intercept)                                  -3.059  0.00222 **
## interventiongroupIntervention                 0.578  0.56324
## timePoint_factor2                            -2.287  0.02221 *
## timePoint_factor3                             4.306 1.66e-05 ***
## interventiongroupIntervention:timePoint_factor2   2.101  0.03564 *
## interventiongroupIntervention:timePoint_factor3   1.293  0.19585
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.706
## tmPnt_fctr2 -0.452  0.333
## tmPnt_fctr3 -0.542  0.369  0.334
## intrvnI:P_2  0.331 -0.491 -0.740 -0.243
## intrvnI:P_3  0.358 -0.516 -0.258 -0.678  0.377
```

```
Anova(HSMHfuturehelp7MHworker_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: HSMHfuturehelp7MHworker_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                       9.3567  1   0.002222 **
## interventiongroup                 0.3341  1   0.563237
## timePoint_factor                 34.1745  2  3.794e-08 ***
## interventiongroup:timePoint_factor  4.7073  2   0.095021 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(HSMHfuturehelp7MHworker_T_model, ~ interventiongroup * timePoint_factor),
```

```
##  timePoint_factor contrast                estimate        SE df z.ratio
##  2                Control - Intervention -0.9799864 0.3504609 NA  -2.796
##  p.value
##   0.0052
##
## Results are given on the log odds ratio (not the response) scale.
```

```
HSMHfuturehelp8other_T_model <- glmer(HSMHfuturehelp8other_T ~ interventiongroup * timePoint_factor + (1|T1Par
summary(HSMHfuturehelp8other_T_model)
```

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
##   Approximation) [glmerMod]
##  Family: binomial  ( logit )
## Formula: HSMHfuturehelp8other_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
##    Data: filtered
##
##      AIC      BIC   logLik deviance df.resid
```

```
##    518.2    550.1   -252.1    504.2      697
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -1.72126 -0.02612 -0.01117 -0.00910  2.56944
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 123.3    11.1
## Number of obs: 704, groups:  T1ParticipantID, 354
##
## Fixed effects:
##                                              Estimate Std. Error
## (Intercept)                                   -8.8882     0.9697
## interventiongroupIntervention                 -0.4898     1.0944
## timePoint_factor2                              0.4408     0.7977
## timePoint_factor3                              1.7203     0.7501
## interventiongroupIntervention:timePoint_factor2 -0.3021     1.1233
## interventiongroupIntervention:timePoint_factor3  0.8280     1.0537
##                                              z value Pr(>|z|)
## (Intercept)                                   -9.166   <2e-16 ***
## interventiongroupIntervention                 -0.448   0.6545
## timePoint_factor2                              0.553   0.5806
## timePoint_factor3                              2.294   0.0218 *
## interventiongroupIntervention:timePoint_factor2 -0.269   0.7880
## interventiongroupIntervention:timePoint_factor3  0.786   0.4320
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.428
## tmPnt_fctr2 -0.384  0.307
## tmPnt_fctr3 -0.578  0.410  0.482
## intrvnI:P_2  0.254 -0.411 -0.709 -0.338
## intrvnI:P_3  0.280 -0.677 -0.333 -0.682  0.440
```

```
Anova(HSMHfuturehelp8other_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: HSMHfuturehelp8other_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                      84.0081  1    < 2e-16 ***
## interventiongroup                 0.2003  1    0.65447
## timePoint_factor                  5.6573  2    0.05909 .
## interventiongroup:timePoint_factor  1.0858  2    0.58105
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(HSMHfuturehelp8other_T_model, ~ interventiongroup * timePoint_factor), by
```

```
##  timePoint_factor contrast               estimate       SE df z.ratio
##  2                Control - Intervention 0.7918679 1.203288 NA   0.658
##  p.value
##   0.5105
##
## Results are given on the log odds ratio (not the response) scale.
```

```
DisAtNatural_mean_T_model <- lmer(DisAtNatural_mean_T ~ interventiongroup * timePoint_factor + (1|T1Participan
summary(DisAtNatural_mean_T_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula: DisAtNatural_mean_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
##    Data: filtered
##
## REML criterion at convergence: 3199.9
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -2.7171 -0.5331  0.1180  0.6378  2.4611
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 0.5291   0.7274
##  Residual                    0.6801   0.8247
## Number of obs: 1104, groups:  T1ParticipantID, 477
##
## Fixed effects:
##                                                 Estimate Std. Error
## (Intercept)                                      2.84964    0.07173
## interventiongroupIntervention                    0.01518    0.10118
## timePoint_factor2                                0.33088    0.09159
## timePoint_factor3                                0.42381    0.08836
## interventiongroupIntervention:timePoint_factor2  0.33715    0.12670
## interventiongroupIntervention:timePoint_factor3  0.14634    0.12260
##                                                       df t value Pr(>|t|)
## (Intercept)                                     851.10000  39.725  < 2e-16
## interventiongroupIntervention                   848.60000   0.150 0.880745
## timePoint_factor2                               708.10000   3.613 0.000324
## timePoint_factor3                               701.10000   4.796 1.98e-06
## interventiongroupIntervention:timePoint_factor2 697.20000   2.661 0.007968
## interventiongroupIntervention:timePoint_factor3 690.40000   1.194 0.233026
##
## (Intercept)                                     ***
## interventiongroupIntervention
## timePoint_factor2                               ***
## timePoint_factor3                               ***
## interventiongroupIntervention:timePoint_factor2 **
## interventiongroupIntervention:timePoint_factor3
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.709
## tmPnt_fctr2 -0.446  0.316
## tmPnt_fctr3 -0.463  0.328  0.399
## intrvnI:P_2  0.322 -0.453 -0.723 -0.288
## intrvnI:P_3  0.334 -0.469 -0.287 -0.721  0.404
```

```
Anova(DisAtNatural_mean_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: DisAtNatural_mean_T
##                                       Chisq Df Pr(>Chisq)
## (Intercept)                        1578.0431  1  < 2.2e-16 ***
## interventiongroup                     0.0225  1    0.88071
## timePoint_factor                     26.4406  2  1.813e-06 ***
## interventiongroup:timePoint_factor    7.0983  2    0.02875 *
```

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtNatural_mean_T_model, ~ interventiongroup * timePoint_factor), by =
```

```
##  timePoint_factor contrast                estimate        SE     df
##  2                Control - Intervention -0.3523343 0.1211569 1038.7
##  t.ratio p.value
##   -2.908  0.0037
```

```
DisAtGodswill_mean_T_model <- lmer(DisAtGodswill_mean_T ~ interventiongroup * timePoint_factor + (1|T1Particip
summary(DisAtGodswill_mean_T_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula: DisAtGodswill_mean_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
##    Data: filtered
##
## REML criterion at convergence: 3478.9
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -2.2813 -0.7179  0.2705  0.6518  1.8700
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 0.4548   0.6744
##  Residual                    0.9978   0.9989
## Number of obs: 1104, groups:  T1ParticipantID, 478
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                     3.16696    0.07856
## interventiongroupIntervention                  -0.03004    0.11128
## timePoint_factor2                              -0.18693    0.10928
## timePoint_factor3                              -0.23706    0.10580
## interventiongroupIntervention:timePoint_factor2 -0.38225    0.15193
## interventiongroupIntervention:timePoint_factor3 -0.34144    0.14726
##                                                      df t value Pr(>|t|)
## (Intercept)                                     970.20000  40.315   <2e-16
## interventiongroupIntervention                   973.30000  -0.270   0.7873
## timePoint_factor2                               764.00000  -1.711   0.0876
## timePoint_factor3                               754.50000  -2.241   0.0253
## interventiongroupIntervention:timePoint_factor2 757.40000  -2.516   0.0121
## interventiongroupIntervention:timePoint_factor3 745.20000  -2.319   0.0207
##
## (Intercept)                                     ***
## interventiongroupIntervention
## timePoint_factor2                               .
## timePoint_factor3                               *
## interventiongroupIntervention:timePoint_factor2 *
## interventiongroupIntervention:timePoint_factor3 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.706
## tmPnt_fctr2 -0.497  0.351
## tmPnt_fctr3 -0.514  0.363  0.394
```

```
## intrvnI:P_2  0.357 -0.508 -0.719 -0.284
## intrvnI:P_3  0.369 -0.524 -0.283 -0.718  0.405
```

```
Anova(DisAtGodswill_mean_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: DisAtGodswill_mean_T
##                                     Chisq Df Pr(>Chisq)
## (Intercept)                      1625.2881  1    < 2e-16 ***
## interventiongroup                   0.0729  1    0.78722
## timePoint_factor                    5.8310  2    0.05418 .
## interventiongroup:timePoint_factor  8.3482  2    0.01539 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtGodswill_mean_T_model, ~ interventiongroup * timePoint_factor), by =
```

```
##  timePoint_factor contrast               estimate        SE      df
##  2                Control - Intervention 0.4122819 0.1352073 1077.05
##  t.ratio p.value
##    3.049  0.0024
```

```
DisAtVoodoo_mean_T_model <- lmer(DisAtVoodoo_mean_T ~ interventiongroup * timePoint_factor + (1|Locationcode/T
summary(DisAtVoodoo_mean_T_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula: DisAtVoodoo_mean_T ~ interventiongroup * timePoint_factor + (1 |
##     Locationcode/T1ParticipantID)
##    Data: filtered
##
## REML criterion at convergence: -289.9
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -0.6212 -0.2095 -0.1095 -0.0693 14.0424
##
## Random effects:
##  Groups                       Name        Variance  Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 0.0008946 0.02991
##  Locationcode                 (Intercept) 0.0004425 0.02103
##  Residual                                 0.0425753 0.20634
## Number of obs: 1093, groups:
## T1ParticipantID:Locationcode, 476; Locationcode, 3
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                     1.00680    0.01832
## interventiongroupIntervention                   0.04419    0.01934
## timePoint_factor2                               0.02452    0.02212
## timePoint_factor3                               0.02135    0.02144
## interventiongroupIntervention:timePoint_factor2  -0.05017    0.03062
## interventiongroupIntervention:timePoint_factor3  -0.04278    0.02989
##                                                      df t value
## (Intercept)                                     6.40000  54.950
## interventiongroupIntervention                1084.40000   2.285
## timePoint_factor2                             834.30000   1.108
## timePoint_factor3                             806.20000   0.996
## interventiongroupIntervention:timePoint_factor2  815.10000  -1.638
## interventiongroupIntervention:timePoint_factor3  794.30000  -1.431
##                                                Pr(>|t|)
```

```
## (Intercept)                                       7.38e-10 ***
## interventiongroupIntervention                       0.0225 *
## timePoint_factor2                                   0.2680
## timePoint_factor3                                   0.3196
## interventiongroupIntervention:timePoint_factor2     0.1017
## interventiongroupIntervention:timePoint_factor3     0.1527
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.531
## tmPnt_fctr2 -0.455  0.431
## tmPnt_fctr3 -0.469  0.445  0.391
## intrvnI:P_2  0.329 -0.619 -0.722 -0.283
## intrvnI:P_3  0.337 -0.634 -0.280 -0.717  0.402
```

```
Anova(DisAtVoodoo_mean_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: DisAtVoodoo_mean_T
##                                      Chisq Df Pr(>Chisq)
## (Intercept)                       3019.5332  1     <2e-16 ***
## interventiongroup                    5.2223  1     0.0223 *
## timePoint_factor                     1.6020  2     0.4489
## interventiongroup:timePoint_factor   3.3970  2     0.1830
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtVoodoo_mean_T_model, ~ interventiongroup * timePoint_factor), by = "
```

```
##  timePoint_factor contrast                  estimate         SE     df
##  2                Control - Intervention 0.005982384 0.02405878 1085.6
##  t.ratio p.value
##    0.249  0.8037
```

```
DisAtBadluck_mean_T_model <- lmer(DisAtBadluck_mean_T ~ interventiongroup * timePoint_factor + (1|Locationcode
summary(DisAtBadluck_mean_T_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula: DisAtBadluck_mean_T ~ interventiongroup * timePoint_factor +
##     (1 | Locationcode/T1ParticipantID)
##    Data: filtered
##
## REML criterion at convergence: 291.9
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -1.1532 -0.2912 -0.2117 -0.1778 10.4985
##
## Random effects:
##  Groups                        Name        Variance  Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 0.0058071 0.07620
##  Locationcode                 (Intercept) 0.0005117 0.02262
##  Residual                                 0.0686664 0.26204
## Number of obs: 1101, groups:
## T1ParticipantID:Locationcode, 477; Locationcode, 3
##
## Fixed effects:
##                                             Estimate Std. Error
```

```
## (Intercept)                                          1.074e+00  2.208e-02
## interventiongroupIntervention                       -6.797e-05  2.515e-02
## timePoint_factor2                                   -8.451e-03  2.820e-02
## timePoint_factor3                                    2.148e-03  2.713e-02
## interventiongroupIntervention:timePoint_factor2 -2.119e-02  3.904e-02
## interventiongroupIntervention:timePoint_factor3  2.145e-02  3.798e-02
##                                                            df t value
## (Intercept)                                          7.900e+00  48.627
## interventiongroupIntervention                        1.083e+03  -0.003
## timePoint_factor2                                    7.961e+02  -0.300
## timePoint_factor3                                    7.712e+02   0.079
## interventiongroupIntervention:timePoint_factor2  7.797e+02  -0.543
## interventiongroupIntervention:timePoint_factor3  7.629e+02   0.565
##                                                     Pr(>|t|)
## (Intercept)                                         4.63e-11 ***
## interventiongroupIntervention                          0.998
## timePoint_factor2                                      0.765
## timePoint_factor3                                      0.937
## interventiongroupIntervention:timePoint_factor2    0.587
## interventiongroupIntervention:timePoint_factor3    0.572
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.571
## tmPnt_fctr2 -0.469  0.412
## tmPnt_fctr3 -0.488  0.429  0.390
## intrvnI:P_2  0.339 -0.595 -0.722 -0.282
## intrvnI:P_3  0.349 -0.612 -0.278 -0.714  0.400
```

```
Anova(DisAtBadluck_mean_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: DisAtBadluck_mean_T
##                                      Chisq Df Pr(>Chisq)
## (Intercept)                       2364.5661  1     <2e-16 ***
## interventiongroup                    0.0000  1     0.9978
## timePoint_factor                     0.1352  2     0.9346
## interventiongroup:timePoint_factor    1.0217  2     0.6000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtBadluck_mean_T_model, ~ interventiongroup * timePoint_factor), by =
```

```
##  timePoint_factor contrast                estimate         SE      df
##  2                Control - Intervention 0.02125876 0.03144278 1093.16
##  t.ratio p.value
##    0.676  0.4991
```

```
DisAtFaultHaitians_mean_T_model <- lmer(DisAtFaultHaitians_mean_T ~ interventiongroup * timePoint_factor + (1|
summary(DisAtFaultHaitians_mean_T_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula:
## DisAtFaultHaitians_mean_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
##    Data: filtered
##
## REML criterion at convergence: 1839.3
```

```
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -1.9060 -0.3699 -0.2494 -0.0908  4.9974
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 0.0703   0.2651
##  Residual                    0.2427   0.4927
## Number of obs: 1109, groups:  T1ParticipantID, 478
##
## Fixed effects:
##                                                 Estimate Std. Error
## (Intercept)                                      1.15849    0.03634
## interventiongroupIntervention                    0.10573    0.05133
## timePoint_factor2                                0.12097    0.05336
## timePoint_factor3                                0.13749    0.05167
## interventiongroupIntervention:timePoint_factor2 -0.21208    0.07415
## interventiongroupIntervention:timePoint_factor3 -0.19336    0.07195
##                                                       df t value
## (Intercept)                                     1024.80000  31.883
## interventiongroupIntervention                   1025.20000   2.060
## timePoint_factor2                                769.90000   2.267
## timePoint_factor3                                754.50000   2.661
## interventiongroupIntervention:timePoint_factor2  758.90000  -2.860
## interventiongroupIntervention:timePoint_factor3  745.10000  -2.688
##                                                 Pr(>|t|)
## (Intercept)                                      < 2e-16 ***
## interventiongroupIntervention                    0.03967 *
## timePoint_factor2                                0.02365 *
## timePoint_factor3                                0.00796 **
## interventiongroupIntervention:timePoint_factor2  0.00435 **
## interventiongroupIntervention:timePoint_factor3  0.00736 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.708
## tmPnt_fctr2 -0.529  0.374
## tmPnt_fctr3 -0.546  0.387  0.392
## intrvnI:P_2  0.381 -0.538 -0.720 -0.282
## intrvnI:P_3  0.392 -0.555 -0.281 -0.718  0.401
```

```
Anova(DisAtFaultHaitians_mean_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: DisAtFaultHaitians_mean_T
##                                       Chisq Df Pr(>Chisq)
## (Intercept)                        1016.5391  1  < 2.2e-16 ***
## interventiongroup                     4.2429  1   0.039415 *
## timePoint_factor                      8.8522  2   0.011961 *
## interventiongroup:timePoint_factor   11.0124  2   0.004062 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtFaultHaitians_mean_T_model, ~ interventiongroup * timePoint_factor),
```

```
##  timePoint_factor contrast               estimate         SE      df
##  2                Control - Intervention 0.1063478 0.06355275 1093.07
```

```
##  t.ratio p.value
##    1.673  0.0945
```

```
DisAtHumanmade_mean_T_model <- lmer(DisAtHumanmade_mean_T ~ interventiongroup * timePoint_factor + (1|Location
summary(DisAtHumanmade_mean_T_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##   to degrees of freedom [lmerMod]
## Formula: DisAtHumanmade_mean_T ~ interventiongroup * timePoint_factor +
##     (1 | Locationcode/T1ParticipantID)
##    Data: filtered
##
## REML criterion at convergence: 1174.9
##
## Scaled residuals:
##     Min      1Q  Median      3Q     Max
## -0.9519 -0.3640 -0.2488 -0.0865  6.9412
##
## Random effects:
##  Groups                       Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 0.011788 0.10857
##  Locationcode                 (Intercept) 0.002473 0.04973
##  Residual                                 0.154074 0.39252
## Number of obs: 1105, groups:
## T1ParticipantID:Locationcode, 477; Locationcode, 3
##
## Fixed effects:
##                                                Estimate Std. Error
## (Intercept)                                     1.08392    0.03908
## interventiongroupIntervention                   0.06964    0.03749
## timePoint_factor2                               0.11247    0.04208
## timePoint_factor3                               0.10435    0.04057
## interventiongroupIntervention:timePoint_factor2  -0.19509    0.05839
## interventiongroupIntervention:timePoint_factor3  -0.16803    0.05667
##                                                      df t value
## (Intercept)                                     4.80000  27.736
## interventiongroupIntervention                1087.00000   1.858
## timePoint_factor2                             761.60000   2.673
## timePoint_factor3                             733.00000   2.572
## interventiongroupIntervention:timePoint_factor2  745.00000  -3.341
## interventiongroupIntervention:timePoint_factor3  723.20000  -2.965
##                                                Pr(>|t|)
## (Intercept)                                    1.67e-06 ***
## interventiongroupIntervention                  0.063495 .
## timePoint_factor2                              0.007679 **
## timePoint_factor3                              0.010304 *
## interventiongroupIntervention:timePoint_factor2 0.000876 ***
## interventiongroupIntervention:timePoint_factor3 0.003129 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##             (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.480
## tmPnt_fctr2 -0.397  0.414
## tmPnt_fctr3 -0.412  0.429  0.389
## intrvnI:P_2  0.286 -0.597 -0.720 -0.281
## intrvnI:P_3  0.295 -0.615 -0.278 -0.715  0.400
```

```r
Anova(DisAtHumanmade_mean_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: DisAtHumanmade_mean_T
##                                    Chisq Df Pr(>Chisq)
## (Intercept)                     769.2584  1  < 2.2e-16 ***
## interventiongroup                 3.4507  1  0.0632249 .
## timePoint_factor                  9.9089  2  0.0070521 **
## interventiongroup:timePoint_factor  14.3215  2  0.0007765 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```r
summary(rbind(pairs(lsmeans::lsmeans(DisAtHumanmade_mean_T_model, ~ interventiongroup * timePoint_factor), by =
```

```
##  timePoint_factor contrast               estimate         SE      df
##  2                Control - Intervention 0.1254435 0.04692217 1096.88
##  t.ratio p.value
##    2.673  0.0076
```

```r
DisAtEQ1natural_T_model <- clmm(DisAtEQ1natural_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID)
summary(DisAtEQ1natural_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAtEQ1natural_T ~ interventiongroup * timePoint_factor + (1 |
##     T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik   AIC     niter     max.grad cond.H
##  logit flexible  1114 -1054.56 2127.13 668(2603) 3.77e-04 2.3e+02
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 2.396    1.548
## Number of groups:  T1ParticipantID 478
##
## Coefficients:
##                                              Estimate Std. Error
## interventiongroupIntervention                 -0.1063     0.2508
## timePoint_factor2                              0.7728     0.2541
## timePoint_factor3                              0.9234     0.2520
## interventiongroupIntervention:timePoint_factor2   0.9208     0.3671
## interventiongroupIntervention:timePoint_factor3   0.6253     0.3558
##                                              z value Pr(>|z|)
## interventiongroupIntervention                 -0.424 0.671735
## timePoint_factor2                              3.041 0.002355 **
## timePoint_factor3                              3.664 0.000248 ***
## interventiongroupIntervention:timePoint_factor2   2.508 0.012126 *
## interventiongroupIntervention:timePoint_factor3   1.757 0.078889 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2  -1.3463     0.1945  -6.923
## 2|3  -0.8179     0.1870  -4.373
## 3|4  -0.1732     0.1827  -0.948
## (326 observations deleted due to missingness)
```

```r
Anova(DisAtEQ1natural_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAtEQ1natural_T
##                                  LR Chisq Df Pr(>Chisq)
## interventiongroup                  0.0000  1     0.9999
## timePoint_factor                   0.0000  2     1.0000
## interventiongroup:timePoint_factor   7.2539  2     0.0266 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```r
summary(rbind(pairs(lsmeans::lsmeans(DisAtEQ1natural_T_model, ~ interventiongroup * timePoint_factor), by = "t
```

```
##  timePoint_factor contrast                estimate        SE df z.ratio
##  2                Control - Intervention -0.8144962 0.3393642 NA    -2.4
##  p.value
##   0.0164
```

```r
DisAtEQ2godswill_T_model <- clmm(DisAtEQ2godswill_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantI
summary(DisAtEQ2godswill_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAtEQ2godswill_T ~ interventiongroup * timePoint_factor + (1 |
##     T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik   AIC     niter     max.grad cond.H
##  logit flexible  1116 -1164.77 2347.55 676(2031) 1.00e-04 3.8e+02
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 1.344    1.159
## Number of groups:  T1ParticipantID 478
##
## Coefficients:
##                                              Estimate Std. Error
## interventiongroupIntervention                -0.09849    0.23190
## timePoint_factor2                            -0.43447    0.23007
## timePoint_factor3                            -0.35328    0.23000
## interventiongroupIntervention:timePoint_factor2 -0.55367    0.32251
## interventiongroupIntervention:timePoint_factor3 -0.56694    0.31766
##                                              z value Pr(>|z|)
## interventiongroupIntervention                 -0.425   0.6710
## timePoint_factor2                             -1.888   0.0590 .
## timePoint_factor3                             -1.536   0.1245
## interventiongroupIntervention:timePoint_factor2  -1.717   0.0860 .
## interventiongroupIntervention:timePoint_factor3  -1.785   0.0743 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2  -1.6233     0.1817  -8.931
## 2|3  -1.3095     0.1768  -7.405
## 3|4  -0.7177     0.1696  -4.232
## (324 observations deleted due to missingness)
```

```r
Anova(DisAtEQ2godswill_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
```

```
##
## Response: DisAtEQ2godswill_T
##                                   LR Chisq Df Pr(>Chisq)
## interventiongroup                    0.000  1     1.0000
## timePoint_factor                     0.000  2     1.0000
## interventiongroup:timePoint_factor   4.301  2     0.1164
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtEQ2godswill_T_model, ~ interventiongroup * timePoint_factor), by = "
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 0.6521633 0.2715285 NA   2.402
##  p.value
##   0.0163
```

```
DisAtEQ3voodoo_T_model <- clmm(DisAtEQ3voodoo_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID), 
summary(DisAtEQ3voodoo_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAtEQ3voodoo_T ~ interventiongroup * timePoint_factor + (1 |
##     T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik AIC    niter     max.grad cond.H
##  logit flexible  1113 -90.54 199.08 529(3935) 1.48e-05 6.2e+02
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 66.43    8.15
## Number of groups:  T1ParticipantID 477
##
## Coefficients:
##                                              Estimate Std. Error
## interventiongroupIntervention                  1.6388     1.5497
## timePoint_factor2                              1.3700     1.1842
## timePoint_factor3                              0.3576     1.2977
## interventiongroupIntervention:timePoint_factor2  -3.4084     1.6970
## interventiongroupIntervention:timePoint_factor3  -1.8660     1.6712
##                                              z value Pr(>|z|)
## interventiongroupIntervention                  1.057   0.2903
## timePoint_factor2                              1.157   0.2473
## timePoint_factor3                              0.276   0.7829
## interventiongroupIntervention:timePoint_factor2  -2.008   0.0446 *
## interventiongroupIntervention:timePoint_factor3  -1.117   0.2642
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2   10.465      1.562   6.699
## 2|3   11.879      1.650   7.201
## 3|4   13.242      1.767   7.493
## (327 observations deleted due to missingness)
```

```
Anova(DisAtEQ3voodoo_T_model, type = "III")
```

```
## Warning in update.uC(rho): Non finite negative log-likelihood
##   at iteration 73
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAtEQ3voodoo_T
##                                   LR Chisq Df Pr(>Chisq)
```

```
## interventiongroup                     0.046  1     0.8302
## timePoint_factor                      0.000  2     1.0000
## interventiongroup:timePoint_factor    4.526  2     0.1040
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtEQ3voodoo_T_model, ~ interventiongroup * timePoint_factor), by = "ti
```

```
##  timePoint_factor contrast               estimate       SE df z.ratio
##  2                Control - Intervention 1.769626 1.731125 NA   1.022
##  p.value
##   0.3067
```

```
DisAtEQ4Badluck_T_model <- clmm(DisAtEQ4Badluck_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID)
summary(DisAtEQ4Badluck_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAtEQ4Badluck_T ~ interventiongroup * timePoint_factor + (1 |
##     T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik  AIC    niter     max.grad cond.H
##  logit flexible  1113 -228.66 475.32 493(3367) 6.10e-05 4.8e+02
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 34.4     5.865
## Number of groups:  T1ParticipantID 478
##
## Coefficients:
##                                              Estimate Std. Error
## interventiongroupIntervention                 0.01966    0.81307
## timePoint_factor2                             0.43827    0.64463
## timePoint_factor3                             0.09759    0.63589
## interventiongroupIntervention:timePoint_factor2 -1.12131    1.00981
## interventiongroupIntervention:timePoint_factor3  0.40709    0.89192
##                                              z value Pr(>|z|)
## interventiongroupIntervention                  0.024    0.981
## timePoint_factor2                              0.680    0.497
## timePoint_factor3                              0.153    0.878
## interventiongroupIntervention:timePoint_factor2  -1.110    0.267
## interventiongroupIntervention:timePoint_factor3   0.456    0.648
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2   7.5592     0.8503    8.89
## 2|3   9.6786     0.9577   10.11
## 3|4  10.8488     1.0496   10.34
## (327 observations deleted due to missingness)
```

```
Anova(DisAtEQ4Badluck_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAtEQ4Badluck_T
##                                    LR Chisq Df Pr(>Chisq)
## interventiongroup                    0.0000  1     1.0000
## timePoint_factor                     0.0000  2     1.0000
## interventiongroup:timePoint_factor   2.3805  2     0.3041
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtEQ4Badluck_T_model, ~ interventiongroup * timePoint_factor), by = "t
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 1.101653 0.9750298 NA    1.13
```

```
##  p.value
##   0.2585
```

```
DisAtEQ5faultHaitians_T_model <- clmm(DisAtEQ5faultHaitians_T ~ interventiongroup * timePoint_factor + (1|T1Pa
summary(DisAtEQ5faultHaitians_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAtEQ5faultHaitians_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik  AIC     niter      max.grad cond.H
##  logit flexible  1117 -530.99 1079.97 1151(8536) 5.73e+01 1.0e+06
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 9.885    3.144
## Number of groups:  T1ParticipantID 478
##
## Coefficients:
##                                                Estimate Std. Error
## interventiongroupIntervention                    0.5695     0.4600
## timePoint_factor2                                0.7163     0.4036
## timePoint_factor3                                0.8225     0.3792
## interventiongroupIntervention:timePoint_factor2 -1.4646     0.5882
## interventiongroupIntervention:timePoint_factor3 -1.1042     0.5306
##                                                z value Pr(>|z|)
## interventiongroupIntervention                    1.238   0.2157
## timePoint_factor2                                1.775   0.0759 .
## timePoint_factor3                                2.169   0.0301 *
## interventiongroupIntervention:timePoint_factor2 -2.490   0.0128 *
## interventiongroupIntervention:timePoint_factor3 -2.081   0.0374 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2   4.5892     0.3437   13.35
## 2|3   5.6123     0.3642   15.41
## 3|4   7.0508     0.4108   17.16
## (323 observations deleted due to missingness)
```

```
Anova(DisAtEQ5faultHaitians_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAtEQ5faultHaitians_T
##                                   LR Chisq Df Pr(>Chisq)
## interventiongroup                   0.0026  1    0.95957
## timePoint_factor                    0.0011  2    0.99946
## interventiongroup:timePoint_factor  7.4043  2    0.02467 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtEQ5faultHaitians_T_model, ~ interventiongroup * timePoint_factor), b
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 0.8951043 0.5583558 NA   1.603
##  p.value
##   0.1089
```

```r
DisAtEQ6humanmade_T_model <- clmm(DisAtEQ6humanmade_T ~ interventiongroup * timePoint_factor + (1|T1Participant
summary(DisAtEQ6humanmade_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAtEQ6humanmade_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik  AIC    niter     max.grad cond.H
##  logit flexible  1112 -415.22 848.43 664(3606) 3.96e-04 5.9e+02
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 23.25    4.822
## Number of groups:  T1ParticipantID 477
##
## Coefficients:
##                                                Estimate Std. Error
## interventiongroupIntervention                    0.6690     0.5997
## timePoint_factor2                                1.1197     0.4781
## timePoint_factor3                                1.1848     0.4610
## interventiongroupIntervention:timePoint_factor2  -2.2022     0.7400
## interventiongroupIntervention:timePoint_factor3  -1.5789     0.6708
##                                                z value Pr(>|z|)
## interventiongroupIntervention                    1.116  0.26458
## timePoint_factor2                                2.342  0.01919 *
## timePoint_factor3                                2.570  0.01016 *
## interventiongroupIntervention:timePoint_factor2  -2.976  0.00292 **
## interventiongroupIntervention:timePoint_factor3  -2.354  0.01859 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2   6.5368     0.5552   11.77
## 2|3   7.7595     0.5979   12.98
## 3|4   8.9929     0.6602   13.62
## (328 observations deleted due to missingness)
```

```r
Anova(DisAtEQ6humanmade_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAtEQ6humanmade_T
##                                   LR Chisq Df Pr(>Chisq)
## interventiongroup                   0.0030  1   0.956583
## timePoint_factor                    1.8905  2   0.388578
## interventiongroup:timePoint_factor  11.7112  2   0.002864 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```r
summary(rbind(pairs(lsmeans::lsmeans(DisAtEQ6humanmade_T_model, ~ interventiongroup * timePoint_factor), by =
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention  1.53314 0.7149803 NA   2.144
##  p.value
##   0.0320
```

```r
DisAtflood1natural_T_model <- clmm(DisAtflood1natural_T ~ interventiongroup * timePoint_factor + (1|T1Particip
summary(DisAtflood1natural_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAtflood1natural_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik  AIC     niter     max.grad cond.H
##  logit flexible  1114 -991.98 2001.96 626(2455) 1.83e-05 2.8e+02
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 2.487    1.577
## Number of groups:  T1ParticipantID 478
##
## Coefficients:
##                                                Estimate Std. Error
## interventiongroupIntervention                  0.008489   0.258261
## timePoint_factor2                              0.517880   0.255254
## timePoint_factor3                              1.025452   0.259476
## interventiongroupIntervention:timePoint_factor2 0.908485   0.372643
## interventiongroupIntervention:timePoint_factor3 0.490924   0.368359
##                                                z value Pr(>|z|)
## interventiongroupIntervention                    0.033   0.9738
## timePoint_factor2                                2.029   0.0425 *
## timePoint_factor3                                3.952 7.75e-05 ***
## interventiongroupIntervention:timePoint_factor2   2.438   0.0148 *
## interventiongroupIntervention:timePoint_factor3   1.333   0.1826
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2  -1.3924     0.2014  -6.914
## 2|3  -1.0352     0.1954  -5.297
## 3|4  -0.3464     0.1884  -1.839
## (326 observations deleted due to missingness)
```

```
Anova(DisAtflood1natural_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAtflood1natural_T
##                                    LR Chisq Df Pr(>Chisq)
## interventiongroup                     0.000  1    0.99985
## timePoint_factor                      0.000  2    1.00000
## interventiongroup:timePoint_factor    6.295  2    0.04296 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtflood1natural_T_model, ~ interventiongroup * timePoint_factor), by =
```

```
##  timePoint_factor contrast                estimate        SE df z.ratio
##  2                Control - Intervention -0.9169742 0.3433683 NA  -2.671
##  p.value
##   0.0076
```

```
DisAtflood2godswill_T_model <- clmm(DisAtflood2godswill_T ~ interventiongroup * timePoint_factor + (1|Location
summary(DisAtflood2godswill_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAtflood2godswill_T ~ interventiongroup * timePoint_factor +
```

```
##     (1 | Locationcode/T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik   AIC     niter     max.grad cond.H
##  logit flexible  1116 -1158.83 2337.66 695(2089) 2.83e-03 3.7e+02
##
## Random effects:
##  Groups                       Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 1.553446 1.24637
##  Locationcode                 (Intercept) 0.005677 0.07534
## Number of groups:  T1ParticipantID:Locationcode 478,  Locationcode 3
##
## Coefficients:
##                                              Estimate Std. Error
## interventiongroupIntervention                 -0.2110     0.2400
## timePoint_factor2                             -0.5370     0.2377
## timePoint_factor3                             -0.5242     0.2324
## interventiongroupIntervention:timePoint_factor2  -0.4270     0.3307
## interventiongroupIntervention:timePoint_factor3  -0.4423     0.3204
##                                              z value Pr(>|z|)
## interventiongroupIntervention                 -0.879   0.3794
## timePoint_factor2                             -2.259   0.0239 *
## timePoint_factor3                             -2.255   0.0241 *
## interventiongroupIntervention:timePoint_factor2  -1.291   0.1966
## interventiongroupIntervention:timePoint_factor3  -1.381   0.1674
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2  -1.7533     0.1963  -8.931
## 2|3  -1.4076     0.1909  -7.374
## 3|4  -0.8268     0.1834  -4.507
## (324 observations deleted due to missingness)
```

```
Anova(DisAtflood2godswill_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAtflood2godswill_T
##                                   LR Chisq Df Pr(>Chisq)
## interventiongroup                   0.0000  1     1.0000
## timePoint_factor                    0.0000  2     1.0000
## interventiongroup:timePoint_factor  2.4958  2     0.2871
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtflood2godswill_T_model, ~ interventiongroup * timePoint_factor), by =
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 0.6380057 0.2818044 NA   2.264
##  p.value
##   0.0236
```

```
DisAtflood3voodoo_T_model <- clmm(DisAtflood3voodoo_T ~ interventiongroup * timePoint_factor + (1|T1Participan
summary(DisAtflood3voodoo_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAtflood3voodoo_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik  AIC    niter     max.grad cond.H
```

```
##  logit flexible  1109 -101.05 220.10 485(2654) 9.35e-06 1.0e+03
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 58.15    7.626
## Number of groups:  T1ParticipantID 478
##
## Coefficients:
##                                                Estimate Std. Error
## interventiongroupIntervention                     2.224      1.741
## timePoint_factor2                                 2.531      1.367
## timePoint_factor3                                 2.412      1.463
## interventiongroupIntervention:timePoint_factor2  -3.775      1.870
## interventiongroupIntervention:timePoint_factor3  -2.042      1.761
##                                                z value Pr(>|z|)
## interventiongroupIntervention                    1.277   0.2015
## timePoint_factor2                                1.852   0.0640 .
## timePoint_factor3                                1.649   0.0991 .
## interventiongroupIntervention:timePoint_factor2 -2.019   0.0435 *
## interventiongroupIntervention:timePoint_factor3 -1.160   0.2462
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2   11.312      1.752   6.456
## 2|3   12.570      1.833   6.859
## 3|4   13.654      1.909   7.153
## (331 observations deleted due to missingness)
```

```
Anova(DisAtflood3voodoo_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAtflood3voodoo_T
##                                    LR Chisq Df Pr(>Chisq)
## interventiongroup                    0.0000  1    0.99997
## timePoint_factor                     0.0000  2    1.00000
## interventiongroup:timePoint_factor   4.8415  2    0.08885 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtflood3voodoo_T_model, ~ interventiongroup * timePoint_factor), by =
```

```
##  timePoint_factor contrast               estimate       SE df z.ratio
##  2                Control - Intervention 1.551143 1.645443 NA   0.943
##  p.value
##   0.3458
```

```
DisAtflood4badluck_T_model <- clmm(DisAtflood4badluck_T ~ interventiongroup * timePoint_factor + (1|T1Particip
summary(DisAtflood4badluck_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAtflood4badluck_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik  AIC    niter     max.grad cond.H
##  logit flexible  1114 -245.68 509.37 466(3156) 9.88e-05 5.9e+02
##
## Random effects:
```

```
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 33.52    5.789
## Number of groups:  T1ParticipantID 478
##
## Coefficients:
##                                              Estimate Std. Error
## interventiongroupIntervention                -0.15766    0.85792
## timePoint_factor2                             0.93290    0.63152
## timePoint_factor3                             0.97773    0.60181
## interventiongroupIntervention:timePoint_factor2 -0.82820    0.99165
## interventiongroupIntervention:timePoint_factor3  0.09137    0.89168
##                                              z value Pr(>|z|)
## interventiongroupIntervention                 -0.184    0.854
## timePoint_factor2                              1.477    0.140
## timePoint_factor3                              1.625    0.104
## interventiongroupIntervention:timePoint_factor2  -0.835    0.404
## interventiongroupIntervention:timePoint_factor3   0.102    0.918
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2   7.7462     0.8962   8.644
## 2|3   9.8644     1.0128   9.740
## 3|4  11.3026     1.1230  10.065
## (326 observations deleted due to missingness)
```

```
Anova(DisAtflood4badluck_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAtflood4badluck_T
##                                  LR Chisq Df Pr(>Chisq)
## interventiongroup                  0.0000  1     1.0000
## timePoint_factor                   0.0000  2     1.0000
## interventiongroup:timePoint_factor   1.0605  2     0.5885
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtflood4badluck_T_model, ~ interventiongroup * timePoint_factor), by =
```

```
##  timePoint_factor contrast               estimate       SE df z.ratio
##  2                Control - Intervention 0.9858607 0.907822 NA   1.086
##  p.value
##   0.2775
```

```
DisAtflood5faulthaitians_T_model <- clmm(DisAtflood5faulthaitians_T ~ interventiongroup * timePoint_factor + (
summary(DisAtflood5faulthaitians_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula:
## DisAtflood5faulthaitians_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik  AIC     niter     max.grad cond.H
##  logit flexible  1117 -614.99 1247.99 563(2183) 4.41e-04 2.3e+02
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 1.769    1.33
## Number of groups:  T1ParticipantID 478
##
## Coefficients:
##                                              Estimate Std. Error
```

```
## interventiongroupIntervention                     0.7059     0.3339
## timePoint_factor2                                 0.9110     0.3406
## timePoint_factor3                                 0.8185     0.3287
## interventiongroupIntervention:timePoint_factor2  -1.2933     0.4732
## interventiongroupIntervention:timePoint_factor3  -1.0709     0.4503
##                                                  z value Pr(>|z|)
## interventiongroupIntervention                      2.114  0.03454 *
## timePoint_factor2                                  2.675  0.00747 **
## timePoint_factor3                                  2.490  0.01276 *
## interventiongroupIntervention:timePoint_factor2   -2.733  0.00627 **
## interventiongroupIntervention:timePoint_factor3   -2.378  0.01739 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2   2.8935     0.3158   9.163
## 2|3   3.6126     0.3428  10.540
## 3|4   4.5079     0.3795  11.878
## (323 observations deleted due to missingness)
```

```
Anova(DisAtflood5faulthaitians_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAtflood5faulthaitians_T
##                                   LR Chisq Df Pr(>Chisq)
## interventiongroup                   0.0000  1   1.000000
## timePoint_factor                    0.0000  2   1.000000
## interventiongroup:timePoint_factor   9.3788  2   0.009192 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtflood5faulthaitians_T_model, ~ interventiongroup * timePoint_factor)
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 0.5874124 0.3825507 NA   1.536
##  p.value
##   0.1247
```

```
DisAtflood6humanmade_T_model <- clmm(DisAtflood6humanmade_T ~ interventiongroup * timePoint_factor + (1|T1Part
summary(DisAtflood6humanmade_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAtflood6humanmade_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik  AIC    niter     max.grad cond.H
##  logit flexible  1115 -341.41 700.83 494(3223) 4.83e-05 7.9e+02
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 36.04    6.004
## Number of groups:  T1ParticipantID 478
##
## Coefficients:
##                                                Estimate Std. Error
## interventiongroupIntervention                    1.0387     0.7632
## timePoint_factor2                                2.0686     0.5814
## timePoint_factor3                                1.3404     0.5739
```

```
## interventiongroupIntervention:timePoint_factor2  -2.7181     0.8689
## interventiongroupIntervention:timePoint_factor3  -1.5422     0.8066
##                                                 z value Pr(>|z|)
## interventiongroupIntervention                     1.361 0.173543
## timePoint_factor2                                 3.558 0.000373 ***
## timePoint_factor3                                 2.336 0.019502 *
## interventiongroupIntervention:timePoint_factor2  -3.128 0.001758 **
## interventiongroupIntervention:timePoint_factor3  -1.912 0.055888 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2   8.0238     0.9105   8.813
## 2|3   9.6189     0.9908   9.708
## 3|4  11.1334     1.0780  10.328
## (325 observations deleted due to missingness)
```

```
Anova(DisAtflood6humanmade_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAtflood6humanmade_T
##                                   LR Chisq Df Pr(>Chisq)
## interventiongroup                    0.000  1     1.0000
## timePoint_factor                     0.000  2     1.0000
## interventiongroup:timePoint_factor  10.898  2     0.0043 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtflood6humanmade_T_model, ~ interventiongroup * timePoint_factor), by
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 1.679392 0.7825626 NA   2.146
##  p.value
##   0.0319
```

```
DisAtpeople1natural_T_model <- clmm(DisAtpeople1natural_T ~ interventiongroup * timePoint_factor + (1|T1Partic
summary(DisAtpeople1natural_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAtpeople1natural_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik   AIC     niter     max.grad cond.H
##  logit flexible  1116 -1023.91 2065.83 660(1983) 4.78e-04 3.5e+02
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 1.931    1.39
## Number of groups:  T1ParticipantID 477
##
## Coefficients:
##                                                 Estimate Std. Error
## interventiongroupIntervention                    0.01013    0.24057
## timePoint_factor2                                0.77399    0.24985
## timePoint_factor3                                1.01963    0.24830
## interventiongroupIntervention:timePoint_factor2  1.11731    0.37052
## interventiongroupIntervention:timePoint_factor3  0.27114    0.34462
##                                                 z value Pr(>|z|)
```

```
## interventiongroupIntervention                     0.042  0.96641
## timePoint_factor2                                 3.098  0.00195 **
## timePoint_factor3                                 4.106 4.02e-05 ***
## interventiongroupIntervention:timePoint_factor2   3.015  0.00257 **
## interventiongroupIntervention:timePoint_factor3   0.787  0.43142
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##      Estimate Std. Error z value
## 1|2 -0.858203   0.178228  -4.815
## 2|3 -0.542235   0.175393  -3.092
## 3|4 -0.008162   0.173521  -0.047
## (324 observations deleted due to missingness)
```

```
Anova(DisAtpeople1natural_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAtpeople1natural_T
##                                  LR Chisq Df Pr(>Chisq)
## interventiongroup                  0.0000  1   1.000000
## timePoint_factor                   0.0000  2   1.000000
## interventiongroup:timePoint_factor   9.4428  2   0.008903 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtpeople1natural_T_model, ~ interventiongroup * timePoint_factor), by =
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention -1.127436 0.3376455 NA  -3.339
##  p.value
##   0.0008
```

```
DisAtpeople2godswill_T_model <- clmm(DisAtpeople2godswill_T ~ interventiongroup * timePoint_factor + (1|T1Part
summary(DisAtpeople2godswill_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAtpeople2godswill_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik   AIC     niter     max.grad cond.H
##  logit flexible  1112 -1153.93 2325.86 604(1815) 4.63e-03 4.2e+02
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 0.9638   0.9817
## Number of groups:  T1ParticipantID 478
##
## Coefficients:
##                                              Estimate Std. Error
## interventiongroupIntervention                 -0.1954     0.2237
## timePoint_factor2                             -0.4684     0.2294
## timePoint_factor3                             -0.6336     0.2256
## interventiongroupIntervention:timePoint_factor2  -0.4860     0.3191
## interventiongroupIntervention:timePoint_factor3  -0.3759     0.3093
##                                              z value Pr(>|z|)
## interventiongroupIntervention                 -0.873  0.38247
## timePoint_factor2                             -2.042  0.04117 *
## timePoint_factor3                             -2.809  0.00497 **
```

```
## interventiongroupIntervention:timePoint_factor2  -1.523  0.12775
## interventiongroupIntervention:timePoint_factor3  -1.215  0.22427
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2  -1.6112     0.1749  -9.211
## 2|3  -1.2958     0.1702  -7.613
## 3|4  -0.8071     0.1643  -4.911
## (328 observations deleted due to missingness)
```

```
Anova(DisAtpeople2godswill_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAtpeople2godswill_T
##                                   LR Chisq Df Pr(>Chisq)
## interventiongroup                   0.0000  1     1.0000
## timePoint_factor                    0.0000  2     1.0000
## interventiongroup:timePoint_factor  2.6976  2     0.2596
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtpeople2godswill_T_model, ~ interventiongroup * timePoint_factor), by
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 0.6814041 0.2620058 NA   2.601
##  p.value
##   0.0093
```

```
DisAtpeople4badluck_T_model <- clmm(DisAtpeople4badluck_T ~ interventiongroup * timePoint_factor + (1|T1Partic
summary(DisAtpeople4badluck_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAtpeople4badluck_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik  AIC    niter     max.grad cond.H
##  logit flexible  1114 -296.13 610.27 516(4323) 5.29e-05 3.8e+02
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 41.31    6.427
## Number of groups:  T1ParticipantID 477
##
## Coefficients:
##                                              Estimate Std. Error
## interventiongroupIntervention                 -0.5413     0.7102
## timePoint_factor2                             -0.9102     0.6131
## timePoint_factor3                             -0.8589     0.6082
## interventiongroupIntervention:timePoint_factor2  -0.5537     0.9687
## interventiongroupIntervention:timePoint_factor3   1.5088     0.8261
##                                              z value Pr(>|z|)
## interventiongroupIntervention                 -0.762   0.4460
## timePoint_factor2                             -1.485   0.1376
## timePoint_factor3                             -1.412   0.1579
## interventiongroupIntervention:timePoint_factor2  -0.572   0.5676
## interventiongroupIntervention:timePoint_factor3   1.826   0.0678 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
```

```
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2   6.9380     0.7255   9.562
## 2|3   8.6939     0.8107  10.724
## 3|4   9.4051     0.8570  10.975
## (326 observations deleted due to missingness)
```

```
Anova(DisAtpeople4badluck_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAtpeople4badluck_T
##                                   LR Chisq Df Pr(>Chisq)
## interventiongroup                   0.0000  1    0.99996
## timePoint_factor                    0.0000  2    1.00000
## interventiongroup:timePoint_factor   5.2895  2    0.07102 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtpeople4badluck_T_model, ~ interventiongroup * timePoint_factor), by =
```

```
##  timePoint_factor contrast               estimate       SE df z.ratio
##  2                Control - Intervention 1.094985 1.017782 NA   1.076
##  p.value
##   0.2820
```

```
DisAtpeople5faulthaitians_T_model <- clmm(DisAtpeople5faulthaitians_T ~ interventiongroup * timePoint_factor +
summary(DisAtpeople5faulthaitians_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula:
## DisAtpeople5faulthaitians_T ~ interventiongroup * timePoint_factor +
##     (1 | T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik  AIC     niter     max.grad cond.H
##  logit flexible  1115 -503.02 1024.05 537(2089) 4.92e-05 2.2e+02
##
## Random effects:
##  Groups          Name        Variance Std.Dev.
##  T1ParticipantID (Intercept) 2.36     1.536
## Number of groups:  T1ParticipantID 478
##
## Coefficients:
##                                                Estimate Std. Error
## interventiongroupIntervention                    0.1980     0.3780
## timePoint_factor2                                0.6759     0.3728
## timePoint_factor3                                0.9566     0.3430
## interventiongroupIntervention:timePoint_factor2  -1.1187     0.5599
## interventiongroupIntervention:timePoint_factor3  -0.7866     0.4881
##                                                z value Pr(>|z|)
## interventiongroupIntervention                    0.524  0.60047
## timePoint_factor2                                1.813  0.06983 .
## timePoint_factor3                                2.789  0.00528 **
## interventiongroupIntervention:timePoint_factor2  -1.998  0.04569 *
## interventiongroupIntervention:timePoint_factor3  -1.611  0.10708
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
```

```
## 1|2   3.2294     0.3808   8.480
## 2|3   3.9606     0.4145   9.556
## 3|4   4.9723     0.4627  10.746
## (325 observations deleted due to missingness)
```

```
Anova(DisAtpeople5faulthaitians_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAtpeople5faulthaitians_T
##                                  LR Chisq Df Pr(>Chisq)
## interventiongroup                  0.0000  1    1.00000
## timePoint_factor                   0.0000  2    1.00000
## interventiongroup:timePoint_factor   4.7278  2    0.09405 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtpeople5faulthaitians_T_model, ~ interventiongroup * timePoint_factor
```

```
##  timePoint_factor contrast               estimate       SE df z.ratio
##  2                Control - Intervention 0.920767 0.470272 NA   1.958
##  p.value
##   0.0502
```

```
DisAtpeople6humanmade_T_model <- clmm(DisAtpeople6humanmade_T ~ interventiongroup * timePoint_factor + (1|Loca
summary(DisAtpeople6humanmade_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAtpeople6humanmade_T ~ interventiongroup * timePoint_factor +
##     (1 | Locationcode/T1ParticipantID)
## data:    filtered
##
##  link  threshold nobs logLik  AIC    niter     max.grad cond.H
##  logit flexible  1118 -367.13 754.25 653(2579) 7.19e-05 1.8e+02
##
## Random effects:
##  Groups                       Name        Variance Std.Dev.
##  T1ParticipantID:Locationcode (Intercept) 0.3207   0.5663
##  Locationcode                 (Intercept) 0.1530   0.3911
## Number of groups:  T1ParticipantID:Locationcode 478,  Locationcode 3
##
## Coefficients:
##                                                Estimate Std. Error
## interventiongroupIntervention                    0.5398     0.4231
## timePoint_factor2                                1.3862     0.4102
## timePoint_factor3                                1.1857     0.4095
## interventiongroupIntervention:timePoint_factor2  -2.0199     0.6453
## interventiongroupIntervention:timePoint_factor3  -1.3245     0.5819
##                                                z value Pr(>|z|)
## interventiongroupIntervention                    1.276 0.202062
## timePoint_factor2                                3.379 0.000727 ***
## timePoint_factor3                                2.896 0.003784 **
## interventiongroupIntervention:timePoint_factor2  -3.130 0.001747 **
## interventiongroupIntervention:timePoint_factor3  -2.276 0.022836 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
##     Estimate Std. Error z value
## 1|2   3.3620     0.4454   7.548
## 2|3   4.1857     0.4729   8.851
```

```
## 3|4   5.2832     0.5275  10.016
## (322 observations deleted due to missingness)
```

```
Anova(DisAtpeople6humanmade_T_model, type = "III")
```

```
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAtpeople6humanmade_T
##                                  LR Chisq Df Pr(>Chisq)
## interventiongroup                   0.000  1   0.999931
## timePoint_factor                    0.000  2   1.000000
## interventiongroup:timePoint_factor   11.423  2   0.003307 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(DisAtpeople6humanmade_T_model, ~ interventiongroup * timePoint_factor), b
```

```
##  timePoint_factor contrast               estimate        SE df z.ratio
##  2                Control - Intervention 1.480117 0.4920561 NA   3.008
##  p.value
##   0.0026
```

```
relig_models <- list()
relig_var_names <- c('Relig1 - Voodoo', 'Relig2 - Voodoo private', 'Relig3 - church', 'Relig4 - private relig'
relig_models[[1]] <- clmm(Relig1_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID), data = filter
relig_models[[2]] <- clmm(Relig2_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID), data = filter
relig_models[[3]] <- clmm(Relig3_T ~ interventiongroup * timePoint_factor + (1|Locationcode/T1ParticipantID),
relig_models[[4]] <- clmm(Relig4_T ~ interventiongroup * timePoint_factor + (1|Locationcode/T1ParticipantID),
```

```
models <- list(PTSD_T_model, PTSD_avoid_T_model, DPT_model, DPT_excludedItems_model, idioms1_T_model, idioms2_
dv_names <- c('PTSD', 'PTSD - avoidance items', 'Disaster preparedness','DP - excluded items', 'Idioms 1 - los
models_t2t3 <- list(HGMHhelpedsomeonerecentflood_T2_model, HSDpasthelp_T_model, HSDpasthelp_T_ME_model, SocCoh
dv_names_t2t3 <- c('HG MH - helped someone recent flood - T2', 'HS Dis - past help - T2 T3', 'HS Dis - past he

coefs_2 <- sapply(models, function(x) coef(summary(x))['interventiongroupIntervention:timePoint_factor2',1])
```

```
## Error in calculation of the Satterthwaite's approximation. The output of lme4 package is returned
```

```
## summary from lme4 is returned
## some computational error has occurred in lmerTest
```

```
se_2 <- sapply(models, function(x) coef(summary(x))['interventiongroupIntervention:timePoint_factor2',2])
```

```
## Error in calculation of the Satterthwaite's approximation. The output of lme4 package is returned
## summary from lme4 is returned
## some computational error has occurred in lmerTest
```

```
p_2 <- sapply(models, function(x) coef(summary(x))['interventiongroupIntervention:timePoint_factor2', ncol(coe
```

```
## Error in calculation of the Satterthwaite's approximation. The output of lme4 package is returned
## summary from lme4 is returned
## some computational error has occurred in lmerTest
```

```
## Error in calculation of the Satterthwaite's approximation. The output of lme4 package is returned
```

```
## summary from lme4 is returned
## some computational error has occurred in lmerTest
```

```
d_2 <- vector(mode="numeric", length=length(coefs_2))

coefs_3 <- sapply(models, function(x) coef(summary(x))['interventiongroupIntervention:timePoint_factor3',1])
```

```
## Error in calculation of the Satterthwaite's approximation. The output of lme4 package is returned
## summary from lme4 is returned
## some computational error has occurred in lmerTest
```

```
se_3 <- sapply(models, function(x) coef(summary(x))['interventiongroupIntervention:timePoint_factor3',2])
```

```
## Error in calculation of the Satterthwaite's approximation. The output of lme4 package is returned
## summary from lme4 is returned
## some computational error has occurred in lmerTest
```

```
p_3 <- sapply(models, function(x) coef(summary(x))['interventiongroupIntervention:timePoint_factor3', ncol(coe
```

```
## Error in calculation of the Satterthwaite's approximation. The output of lme4 package is returned
## summary from lme4 is returned
## some computational error has occurred in lmerTest
```

```
## Error in calculation of the Satterthwaite's approximation. The output of lme4 package is returned
```

```
## summary from lme4 is returned
## some computational error has occurred in lmerTest
```

```
d_3 <- vector(mode="numeric", length=length(coefs_3))

for(i in 1:length(coefs_2)){
  if(class(models[[i]]) == "merModLmerTest") {
    y <- getME(models[[i]], name = 'y')
    X <- getME(models[[i]], name = 'X')
    d_2[i] <- coefs_2[i] / sd(y[X[,'timePoint_factor2'] == 0 & X[,'timePoint_factor3'] == 0])
    d_3[i] <- coefs_3[i] / sd(y[X[,'timePoint_factor2'] == 0 & X[,'timePoint_factor3'] == 0])
  }
  else {
    d_2[i] <- NA
    d_3[i] <- NA
  }
}

models_df <- data.frame(row.names = dv_names, 'Time 1vs2' = coefs_2, 'SE 1vs2' = se_2, 'p 1vs2' = p_2, 'CohD 1

coefs_t2t3 <- sapply(models_t2t3, function(x) coef(summary(x))[nrow(coef(summary(x))),1])
se_t2t3 <- sapply(models_t2t3, function(x) coef(summary(x))[nrow(coef(summary(x))),2])
p_t2t3 <- sapply(models_t2t3, function(x) coef(summary(x))[nrow(coef(summary(x))),ncol(coef(summary(x)))])
models_t2t3_df <- data.frame(row.names = dv_names_t2t3, 'Coefficient' = coefs_t2t3, 'Std error' = se_t2t3, 'P

cope_relig_coefs_2 <- sapply(c(cope_models, relig_models), function(x) coef(summary(x))['interventiongroupInte
```

```
## Warning in summary.clmm(x): Variance-covariance matrix of the parameters is
## not defined
```

```
cope_relig_se_2 <- sapply(c(cope_models, relig_models), function(x) coef(summary(x))['interventiongroupInterve
```

```
## Warning in summary.clmm(x): Variance-covariance matrix of the parameters is
## not defined
```

```
cope_relig_p_2 <- sapply(c(cope_models, relig_models), function(x) coef(summary(x))['interventiongroupInterven
```

```
## Warning in summary.clmm(x): Variance-covariance matrix of the parameters is
## not defined

## Warning in summary.clmm(x): Variance-covariance matrix of the parameters is
## not defined
```

```
cope_relig_coefs_3 <- sapply(c(cope_models, relig_models), function(x) coef(summary(x))['interventiongroupInte
```

```
## Warning in summary.clmm(x): Variance-covariance matrix of the parameters is
## not defined
```

```
cope_relig_se_3 <- sapply(c(cope_models, relig_models), function(x) coef(summary(x))['interventiongroupInterve
```

```
## Warning in summary.clmm(x): Variance-covariance matrix of the parameters is
```

```
## not defined
cope_relig_p_3 <- sapply(c(cope_models, relig_models), function(x) coef(summary(x))['interventiongroupInterven

## Warning in summary.clmm(x): Variance-covariance matrix of the parameters is
## not defined

## Warning in summary.clmm(x): Variance-covariance matrix of the parameters is
## not defined
coping_relig_df <- data.frame(row.names = c(cope_var_names, relig_var_names), 'Time 1vs2' = cope_relig_coefs_2

print(xtable(models_df, "Main scales - coefficients are intervention x time point = 2 and intervention x time
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sat Apr 07 18:34:20 2018

```
print(xtable(models_t2t3_df, "Coefficients are intervention effects for models marked with only 1 time point o
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sat Apr 07 18:34:21 2018

```
print(xtable(coping_relig_df, "Coping and religiosity items - coefficients are intervention x time point = 2 a
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sat Apr 07 18:34:21 2018

```
texreg(models, type = "html",  digits = 3, bold = .05, booktabs = TRUE, longtable = FALSE, sideways = TRUE, us
```

{r, results = "asis"} # vars <- filtered %>% select(Depmean_T, PTSD_T, Funcmean_T, DisMH1AnxT, DisMH2DepT, DisMH3AvoidT, timePoint) # vars %<>% rename(Time = timePoint) # tableContinuous(vars = list(vars$Depmean_T, vars$PTSD_T, vars$Funcmean_T, as.numeric(vars$DisMH1AnxT), as.numeric(vars$Di as.numeric(vars$DisMH3AvoidT)), group = vars$Time, stats = c('n', 'min', 'q1', 'median', 'mean','q3', 'max', 's'), cap = "Descriptive statistics" , nams = c('ZLSI', 'PTSD', 'Functioning', 'Dis MH - Anxiety', 'Dis MH - Depression', 'Dis MH - Avoid'), prec = 2) #

% latex table generated in R 3.4.2 by xtable 1.8-2 package % Mon Oct 23 14:55:49 2017

Variable	Time point	n	Min	q_1	$\widetilde{x}$	$\bar{x}$	q_3	Max
ZLSI	1	308	1	1.31	1.69	1.90	2.38	4.00
	2	308	1	1.15	1.54	1.73	2.15	3.92
	3	253	1	1.23	1.54	1.67	2.00	4.00
	all		1	1.23	1.62	1.77	2.15	4.00
PTSD	1	308	1	1.23	1.72	1.99	2.62	4.38
	2	308	1	1.09	1.43	1.72	2.18	4.74
	3	253	1	1.06	1.50	1.75	2.24	4.62
	all		1	1.09	1.56	1.82	2.32	4.74
Functioning	1	303	1	1.50	2.25	2.44	3.25	5.00
	2	304	1	1.24	2.25	2.38	3.20	5.00
	3	221	1	1.00	1.75	1.91	2.50	5.00
	all		1	1.20	2.20	2.28	3.00	5.00
Dis MH - Anxiety	1	308	1	3.00	5.00	4.50	6.00	7.00
	2	308	1	2.00	3.00	3.45	5.00	7.00
	3	251	1	2.00	4.00	4.04	6.00	7.00
	all		1	2.00	4.00	3.99	6.00	7.00
Dis MH - Depression	1	306	1	3.00	4.00	4.32	6.00	7.00
	2	308	1	2.00	2.00	3.07	5.00	7.00
	3	252	1	2.00	3.00	3.51	5.00	7.00
	all		1	2.00	4.00	3.64	5.00	7.00
Dis MH - Avoid	1	308	1	2.00	3.00	3.40	5.00	7.00
	2	307	1	2.00	2.00	2.89	4.00	7.00
	3	252	1	1.00	3.00	3.14	5.00	7.00
	all		1	2.00	3.00	3.14	5.00	7.00

Table 26: Descriptive statistics

	Time.1vs2	SE.1vs2	p.1vs2	CohD.1vs2	Time.1vs3	SE.1vs3	p.1vs3	CohD.1vs3
PTSD	-0.46	0.10	0.0000	-0.49	-0.28	0.10	0.0034	-0.30
PTSD - avoidance items	-0.70	0.19	-3.6195	-0.41	-0.43	0.19	-2.2994	-0.25
Disaster preparedness	4.18	0.60	0.0000	0.75	2.90	0.57	0.0000	0.52
DP - excluded items	3.74	0.57	0.0000	0.71	2.53	0.54	0.0000	0.48
Idioms 1 - loss control	-0.83	0.30	0.0056		-0.73	0.29	0.0126	
Idioms 2 - many things on mind	-0.54	0.28	0.0559		-0.36	0.27	0.1828	
Idioms 3 - sadness pity	-0.75	0.32	0.0208		-0.37	0.32	0.2392	
Disaster-related mental health	-0.83	0.22	0.0002	-0.50	-1.15	0.22	0.0000	-0.70
Dis MH - anxiety	-0.99	0.27	0.0002		-1.31	0.27	0.0000	
Dis MH - depressed	-1.08	0.27	0.0000		-1.17	0.27	0.0000	
Dis MH - avoid	-0.60	0.26	0.0216		-1.06	0.27	0.0001	
Functioning	-0.35	0.13	0.0105	-0.29	-0.15	0.14	0.2815	-0.12
Depression - ZLSI	-0.35	0.08	0.0000	-0.47	-0.21	0.08	0.0075	-0.29
Anxiety - BAI	-0.27	0.07	0.0001	-0.41	-0.15	0.07	0.0226	-0.23
Coping	0.29	0.07	0.0000	0.42	0.31	0.06	0.0000	0.45
Social cohesion	0.21	0.12	0.0725	0.22	0.03	0.11	0.7649	0.03
Fatalism	-0.31	0.17	0.0699	-0.22	-0.69	0.17	0.0000	-0.49
HG Dis Gen sum	1.71	0.28	0.0000		1.37	0.29	0.0000	
HG Dis - future dis prep help	1.54	0.36	0.0000		1.46	0.37	0.0001	
HG Dis - future after dis help	1.64	0.36	0.0000		1.16	0.37	0.0015	
HG MH Sum	2.62	0.28	0.0000		1.39	0.25	0.0000	
HG MH - future help	2.16	0.35	0.0000		1.36	0.32	0.0000	
HG MH - have skills to help	3.33	0.58	0.0000		1.58	0.49	0.0014	
HS Dis - future help	0.59	0.29	0.0385		0.53	0.28	0.0557	
HS MH - future help	0.20	0.28	0.4678		0.20	0.27	0.4427	
HS MH - distress fault	-0.54	0.62	0.3796		-0.09	0.58	0.8821	
HSMH - from God	-2.89	1.33	0.0303		-1.74	1.34	0.1952	
HSMH - from pastor	0.33	0.32	0.3132		0.33	0.33	0.3280	
HSMH - from voodoo	1.51	1.06	0.1560		0.47	0.93	0.6095	
HSMH - from neighbor	-0.08	0.33	0.8178		0.36	0.32	0.2534	
HSMH - from family or fnd	0.28	0.37	0.4449		0.65	0.37	0.0753	
HSMH - from hospital	0.33	0.39	0.3930		0.61	0.37	0.0963	
HSMH - from MH worker	0.82	0.39	0.0356		0.49	0.38	0.1959	
HSMH - from other	-0.30	1.12	0.7880		0.83	1.05	0.4320	
Dis attr mean - natural	0.34	0.13	0.0080	0.28	0.15	0.12	0.2330	0.12
Dis attr mean - God's will	-0.38	0.15	0.0121	-0.34	-0.34	0.15	0.0207	-0.30
Dis attr mean - voodoo	-0.05	0.03	0.1017	-0.21	-0.04	0.03	0.1527	-0.18
Dis attr mean - bad luck	-0.02	0.04	0.5874	-0.07	0.02	0.04	0.5725	0.07
Dis attr mean - fault Haitians	-0.21	0.07	0.0043	-0.38	-0.19	0.07	0.0074	-0.35
Dis attr mean - human made	-0.20	0.06	0.0009	-0.45	-0.17	0.06	0.0031	-0.39
Dis attr - EQ - natural	0.92	0.37	0.0121		0.63	0.36	0.0789	
Dis attr - EQ - God's will	-0.55	0.32	0.0860		-0.57	0.32	0.0743	
Dis attr - EQ - voodoo	-3.41	1.70	0.0446		-1.87	1.67	0.2642	
Dis attr - EQ - bad luck	-1.12	1.01	0.2668		0.41	0.89	0.6481	
Dis attr - EQ - fault Haitians	-1.46	0.59	0.0128		-1.10	0.53	0.0374	
Dis attr - EQ - human made	-2.20	0.74	0.0029		-1.58	0.67	0.0186	
Dis attr - Flood - natural	0.91	0.37	0.0148		0.49	0.37	0.1826	
Dis attr - Flood - God's will	-0.43	0.33	0.1966		-0.44	0.32	0.1674	
Dis attr - Flood - voodoo	-3.78	1.87	0.0435		-2.04	1.76	0.2462	
Dis attr - Flood - bad luck	-0.83	0.99	0.4036		0.09	0.89	0.9184	
Dis attr - Flood - fault Haitians	-1.29	0.47	0.0063		-1.07	0.45	0.0174	
Dis attr - Flood - human made	-2.72	0.87	0.0018		-1.54	0.81	0.0559	
Dis attr - Killed - natural	1.12	0.37	0.0026		0.27	0.34	0.4314	
Dis attr - Killed - God's will	-0.49	0.32	0.1277		-0.38	0.31	0.2243	
Dis attr - Killed - bad luck	-0.55	0.97	0.5676		1.51	0.83	0.0678	
Dis attr - Killed - fault Haitians	-1.12	0.56	0.0457		-0.79	0.49	0.1071	
Dis attr - Killed - human made	-2.02	0.65	0.0017		-1.32	0.58	0.0228	

Table 22: Main scales - coefficients are intervention x time point = 2 and intervention x time point = 3 effects

	Coefficient	Std.error	P.value
HG MH - helped someone recent flood - T2	1.16	0.49	0.0174
HS Dis - past help - T2 T3	-0.10	0.37	0.7869
HS Dis - past help - T2 T3 ME	1.04	0.23	0.0000
SocCoh - flood received help - T2	-0.30	0.62	0.6210
SocCoh - dis prep resp received help - T3	-0.27	0.62	0.6612
HS MH - flood sadness - T2 T3	0.21	0.30	0.4740
HS MH - flood sadness - T2 T3 ME	-0.09	0.16	0.5626
HS MH - past help - T2 T3	0.53	0.58	0.3671
HS MH - past help - T2 T3 ME	0.01	0.31	0.9846

Table 23: Coefficients are intervention effects for models marked with only 1 time point or models designated as ME; intervention x time point = 3 effects otherwise

	Time.1vs2	SE.1vs2	p.1vs2	Time.1vs3	SE.1vs3	p.1vs3
Cope1joke_T	0.49	0.32	0.1280	0.80	0.35	0.0223
Cope2discussproblems_T	0.10	0.28	0.7324	0.46	0.28	0.1029
Cope3helpothers_T	0.18	0.30	0.5392	0.12	0.30	0.6766
Cope4pray_T	0.31	0.31	0.3199	0.06	0.33	0.8536
Cope5godprovides_T	-0.01	0.31	0.9695	0.08	0.32	0.8139
Cope6singdance_T	0.37	0.30	0.2188	0.58	0.31	0.0600
Cope8relax_T	4.26	0.67	0.0000	4.60	0.68	0.0000
Cope9festivals_T	0.16	0.34	0.6391	0.33	0.33	0.3199
Cope10normal_T	1.53	0.24	0.0000	1.17	0.24	0.0000
Cope11future_T	0.82	0.30	0.0059	0.66	0.30	0.0313
Cope14busy_T	0.13	0.34	0.7097	0.39	0.34	0.2542
Cope15accept_T	0.43	0.35	0.2123	1.17	0.35	0.0008
Cope16MHworker_T	0.36	0.34	0.2926	0.33	0.33	0.3215
Cope17improve_T	0.81	0.30	0.0059	0.89	0.31	0.0035
Relig1 - Voodoo	0.94	0.68	0.1687	-0.62	0.59	0.2905
Relig2 - Voodoo private	0.97			0.33		
Relig3 - church	0.09	0.30	0.7594	-0.39	0.29	0.1686
Relig4 - private relig	-0.13	0.29	0.6556	-0.49	0.28	0.0866

Table 24: Coping and religiosity items - coefficients are intervention x time point = 2 and intervention x time point = 3 effects

	PTSD	PTSD - avoidance items	Disaster preparedness	DP - excluded items	Idioms 1 - loss control	Idioms 2 - many things on mind
Time point = 2	−0.018	0.073	**−2.551*****	**−2.188*****	−0.235	**−1.042*****
	(0.072)	(0.140)	(0.439)	(0.415)	(0.207)	(0.204)
Time point = 3	−0.082	−0.133	**−1.053***	**−0.772***	**−0.573****	**−0.707*****
	(0.069)	(0.136)	(0.414)	(0.391)	(0.206)	(0.194)
Intervention	0.076	0.043	0.434	0.521	0.178	0.086
	(0.077)	(0.143)	(0.465)	(0.438)	(0.196)	(0.193)
Intervention x Time = 2	**−0.459*****	**−0.704*****	**4.182*****	**3.743*****	**−0.825****	−0.535
	(0.099)	(0.195)	(0.604)	(0.571)	(0.298)	(0.280)
Intervention x Time = 3	**−0.283****	**−0.433***	**2.905*****	**2.533*****	**−0.732***	−0.358
	(0.096)	(0.189)	(0.574)	(0.543)	(0.293)	(0.269)
BIC	2744.516	4155.889	5830.073	5720.894	2871.633	3421.695

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$. Coefficients with $p < 0.05$ in **bold**. Results are presented as coefficient (standard error).

Table 25: Statistical models