

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_factor == "1"])
  data[[paste0(var_name, '1')]][data$timePoint_factor == "2"] <- as.numeric(data[[var_name]][data$timePoint_factor == "2"])
  data[[paste0(var_name, '1')]][data$timePoint_factor == "3"] <- as.numeric(data[[var_name]][data$timePoint_factor == "3"])
  data[[paste0(var_name, '2')]][data$timePoint_factor == "1"] <- as.numeric(data[[var_name]][data$timePoint_factor == "1"])
  data[[paste0(var_name, '2')]][data$timePoint_factor == "2"] <- as.numeric(data[[var_name]][data$timePoint_factor == "2"])
  data[[paste0(var_name, '2')]][data$timePoint_factor == "3"] <- as.numeric(data[[var_name]][data$timePoint_factor == "3"])
  data[[paste0(var_name, '3')]][data$timePoint_factor == "1"] <- as.numeric(data[[var_name]][data$timePoint_factor == "1"])
  data[[paste0(var_name, '3')]][data$timePoint_factor == "2"] <- as.numeric(data[[var_name]][data$timePoint_factor == "2"])
  data[[paste0(var_name, '3')]][data$timePoint_factor == "3"] <- as.numeric(data[[var_name]][data$timePoint_factor == "3"])
  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', 'second') = '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$T1religion, "c('nan tout relijyon yo', 'toutis') = 'All';
        c('dedieu', 'kreyen', 'chreyen', 'chretien', 'chretienne', 'corps de C
        'legliz de dieu' = 'Church of God';
        'kreyen batis' = 'Baptist';
        'katholik' = 'Catholic';
        c('levanjil', 'Full gospel') = 'Gospel';
        'temwn jehova' = 'Jehova\\'s Witness';
        'methodiste' = 'Methodist';
        'mizilman' = 'Muslim';
        c('anyen menm', 'mwen pa gen religion', 'none') = 'None';
        'okenn' = 'Other';
        'rastafaya' = 'Rastafarian';
        'lari a!' = 'The Street'")
data$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

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

## Warning: NAs introduced by coercion

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

## Warning: NAs introduced by coercion

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[[name]] > 1]
}

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[[name]] > 1]
}

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[[name]] > 1]
}

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),

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    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], na.rm = TRUE)
data$T1DP12Talkchildren[data$T1DP12Talkchildren == 3] <- mean(data$T1DP12Talkchildren[data$T1DP12Talkchildren != 3], na.rm = TRUE)
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], na.rm = TRUE)
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], na.rm = TRUE)
data$T3DP12Talkchildren[data$T3DP12Talkchildren == 3] <- mean(data$T3DP12Talkchildren[data$T3DP12Talkchildren != 3], na.rm = TRUE)

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,

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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)

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

```

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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', 'T1HGDfuturesdisprephelp', 'T1HGDfutureafterdishelp', 'T1HGMHfutureh

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

```



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## 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,DisAtpeople2godswill
  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$T3SLMMHclinchelpfulness <- dplyr::recode(as.numeric(data$T3SLMMHclinchelpfulness), `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$HGDfuturesdisprephelp_T[data$HGDfuturesdisprephelp_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(., HGDfuturesdisprephelp_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_nominal <- T1_demographics %>% select_if(function(x) is.numeric(x) | is.factor(x)) %>% select(
T1_demographics_continuous <- data %>% filter(timePoint_factor == "1") %>% select(T1welloff, T1Age, T1education

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_nominal), group = T1_randomization[,1], print.pval = "fisher

```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sun Apr 08 21:10:26 2018

Variable	Levels	nControl	%Control	nIntervention	%Intervention	n _{all}	% _{all}
gender	Female	122	50.8	117	48.8	239	49.8
	Male	118	49.2	123	51.2	241	50.2
<i>p</i> = 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
<i>p</i> = 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
<i>p</i> = 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
	gaston 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
	nichiko	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
$p = 0.12$	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 % Sun Apr 08 21:10:26 2018

Variable	Levels	n	Min	q ₁	\tilde{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 % Sun Apr 08 21:10:26 2018

Variable	Levels	n	Min	q ₁	\tilde{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 % Sun Apr 08 21:10:26 2018

Variable	Levels	n	Min	q ₁	\tilde{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 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 =
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sun Apr 08 21:10:27 2018

Variable	Levels	nControl	%Control	nIntervention	%Intervention	n _{all}	% _{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
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sun Apr 08 21:10:27 2018

Variable	Levels	nControl	%Control	nIntervention	%Intervention	nall	%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 % Sun Apr 08 21:10:27 2018

Variable	Levels	nControl	%Control	nInterven
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
$p = 0.64$	all	240	100.2
Tlincomesourcesopen		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 sired	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
	biznis 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
	diaspora	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
fqnimim 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 nhamchanm	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 kasyon 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 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.frame()

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('T1Stress'))

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, T1howlongliving,
T1_demographics_nomimal <- T1_demographics %>% select_if(function(x) is.numeric(x) | is.factor(x)) %>% select(gender, T1Married_A,
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, T2DP3Foodwater,
T3_DP_vars <- filtered %>% filter(timePoint_factor == "3") %>% select(T3DP1Supplykit, T3DP2Meds, T3DP3Foodwater,
tableNominal(vars = as.data.frame(T1_demographics_nomimal), group = T1_intervention[,1], print.pval = "fisher")

```

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Variable	Levels	n _{Control}	% _{Control}	n _{Intervention}	% _{Intervention}	n _{all}	% _{all}
gender	Female	122	50.8	117	48.8	239	49.8
	Male	118	49.2	123	51.2	241	50.2
	$p = 0.72$	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
	$p = 0.20$	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
	$p = 0.08$	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
chanmmas	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
$p = 0.12$	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	q ₁	\tilde{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 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	\tilde{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	\tilde{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 =
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sun Apr 08 21:10:31 2018

Variable	Levels	nControl	%Control	nIntervention	%Intervention	nall	%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.)
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sun Apr 08 21:10:32 2018

Variable	Levels	nControl	%Control	nIntervention	%Intervention	nall	%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",
```

% latex table generated in R 3.4.3 by xtable 1.8-2 package % Sun Apr 08 21:10:32 2018

Variable	Levels	nControl	%Control	nInterven
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
$p = 0.65$	all	240	100.2
Tlincomesourcesopen		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
	biznis 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
fqnimim 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 nhamchanm	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 kasyon 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 lekòl	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 longè 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 esè 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 vremen 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
<i>p</i> = 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 % Sun Apr 08 21:10:33 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	Marie Bettie	367	76.5
	Bettie	1	0.2
	Bettie samuel	13	2.7
	Betty	2	0.4
	Betty et Samuel	3	0.6
	eoberto e gessica	2	0.4
	Gessica	1	0.2
	Gessica , Roberto	2	0.4
	gessica am roberto	1	0.2
	Gessica et Robertho	1	0.2
	Gessica Ftrancois	5	1.0
	gessica roberto	1	0.2
	Gessica Roberto	1	0.2
	gessica roiberto	5	1.0
	Gessica, Roberto	1	0.2
	Gessiva , Roberto	7	1.5
	Gessiva Roberto	1	0.2
	Marie Bettie	1	0.2
	roberro louis	5	1.0
	Robertho et Gessica	1	0.2
	roberto	1	0.2
	Roberto akbgessuca	10	2.1
	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	1	0.2
	Samuel Ak Bettie	10	2.1
	Samuel Bettie	1	0.2
	Samuel et Betty	1	0.2
	Stephane	1	0.2
	Stephane ak Tessa	3	0.6
	Stephane ak Tessa	1	0.2
	stephane tessa	1	0.2
	stephane Tessa	2	0.4
	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 % Sun Apr 08 21:10:33 2018

Variable	Levels
T2TrainDidnotattendtrainingwhy0	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 schoooli 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 learned I used them for myself and my community
 allow more people to participate 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 and ready 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 thoughtful
 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 acquired new knowledge on disasters preparedness
 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 community
 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 share the 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 disasters such as hurricane, earthquake, flooding I know what to do
 in helping more other people
 in sharing the trainings with my family
 increase the training
 it's good for me because I have new knowledge
 it's good, when I share the trainings 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 exercise. I share what I learned 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 knowledge 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 to 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 % Sun Apr 08 21:10:33 2018

Variable	Levels	n	%
T3attendedotherdispretraining	1	5	1.5
	2	329	98.5
	all	334	100.0
T3attendedotherdispretrainingop		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 % Sun Apr 08 21:10:33 2018

Variable	Levels	n	%
T3attendedSLMtrainingwhynotopen	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 aköz 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	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 % Sun Apr 08 21:10:33 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 % Sun Apr 08 21:10:33 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 % Sun Apr 08 21:10:33 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

```

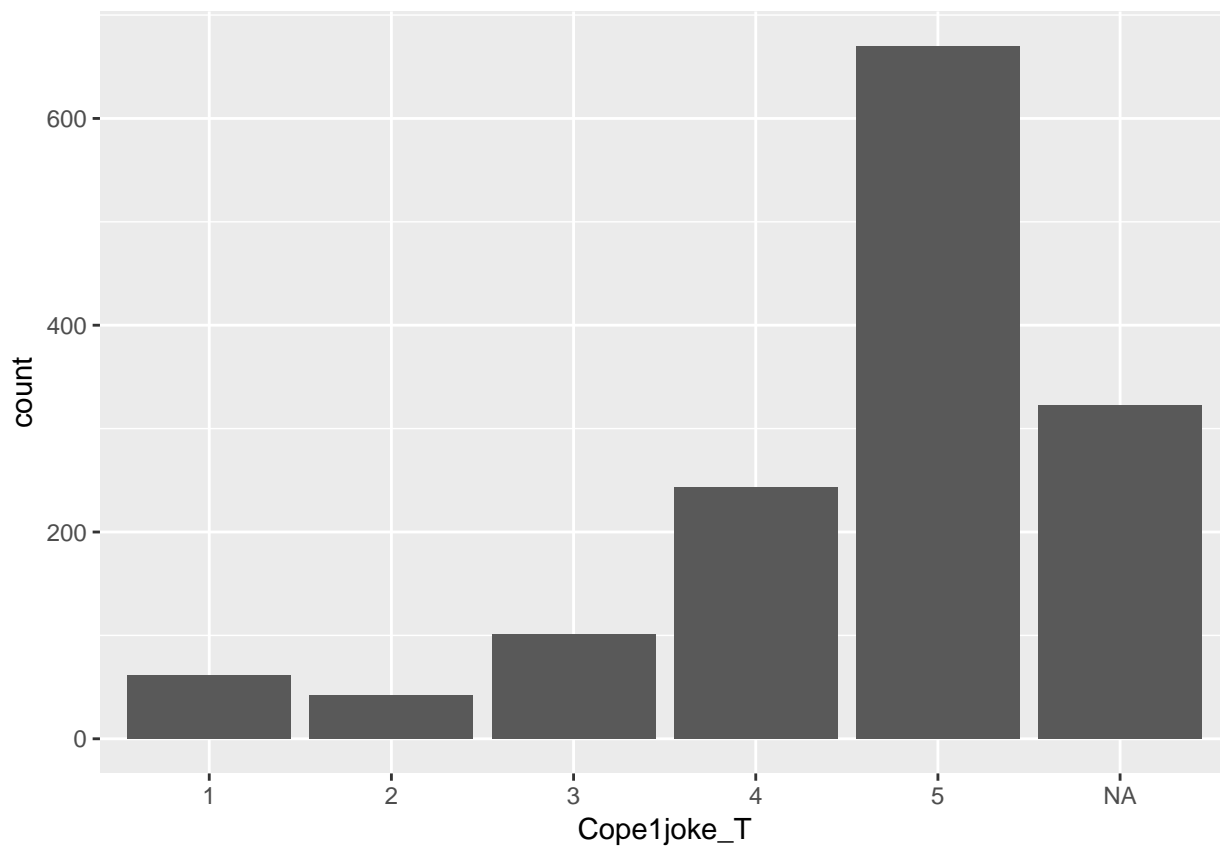
```
## T3DP12Talkchildren      0.31
## T3DP13Radiotvcomp      0.30
## T3DP14Firstaid         0.31
## T3DP15Cleanwater       0.31
## T3DP16Disinfect        0.31
## T3DP17Sanitation       0.31
## T3DP20Safeplaceflood   0.00
## T3DP21riskysafecommunity 0.00
## T3DP22Helpfriends      0.31
```

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

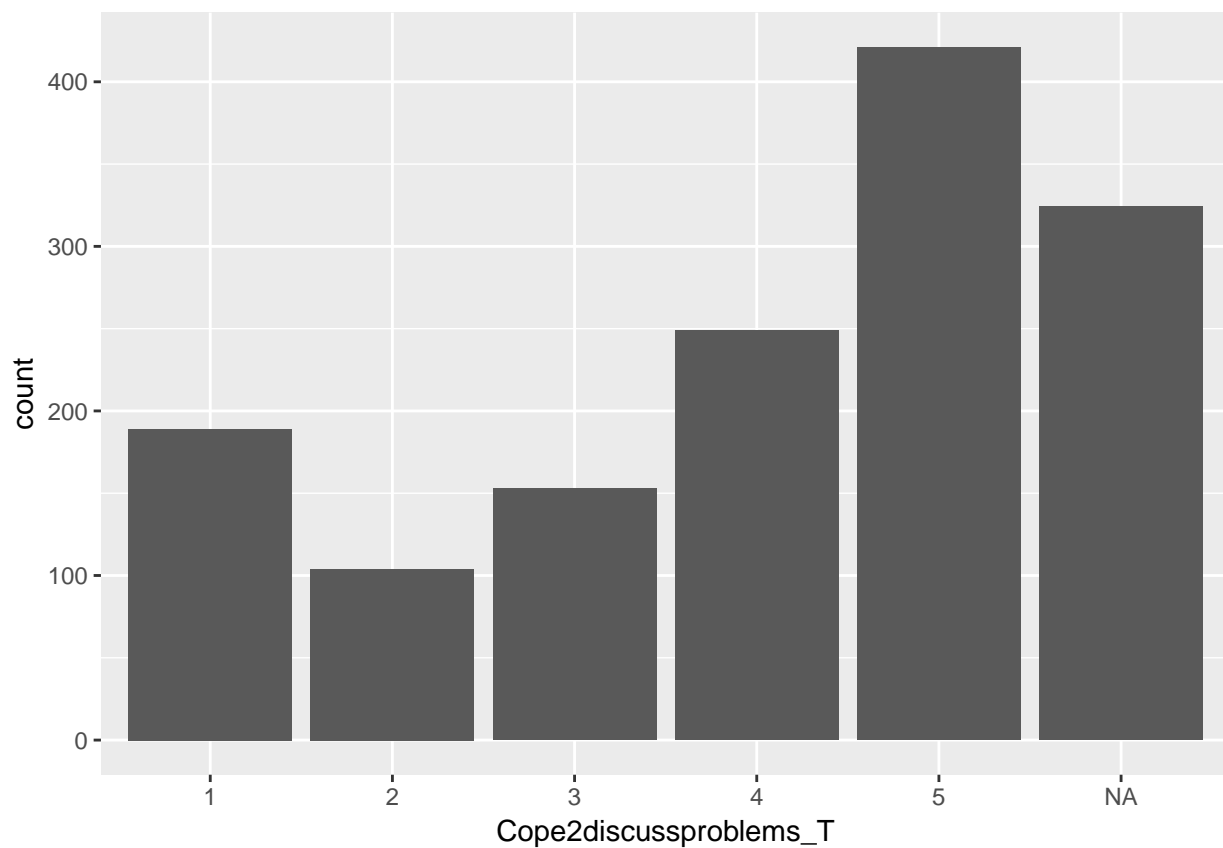
```
for(var in cope_var_names) {
  print(ggplot(data, aes_string(x = var)) + geom_histogram(stat = "count"))
}
```

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

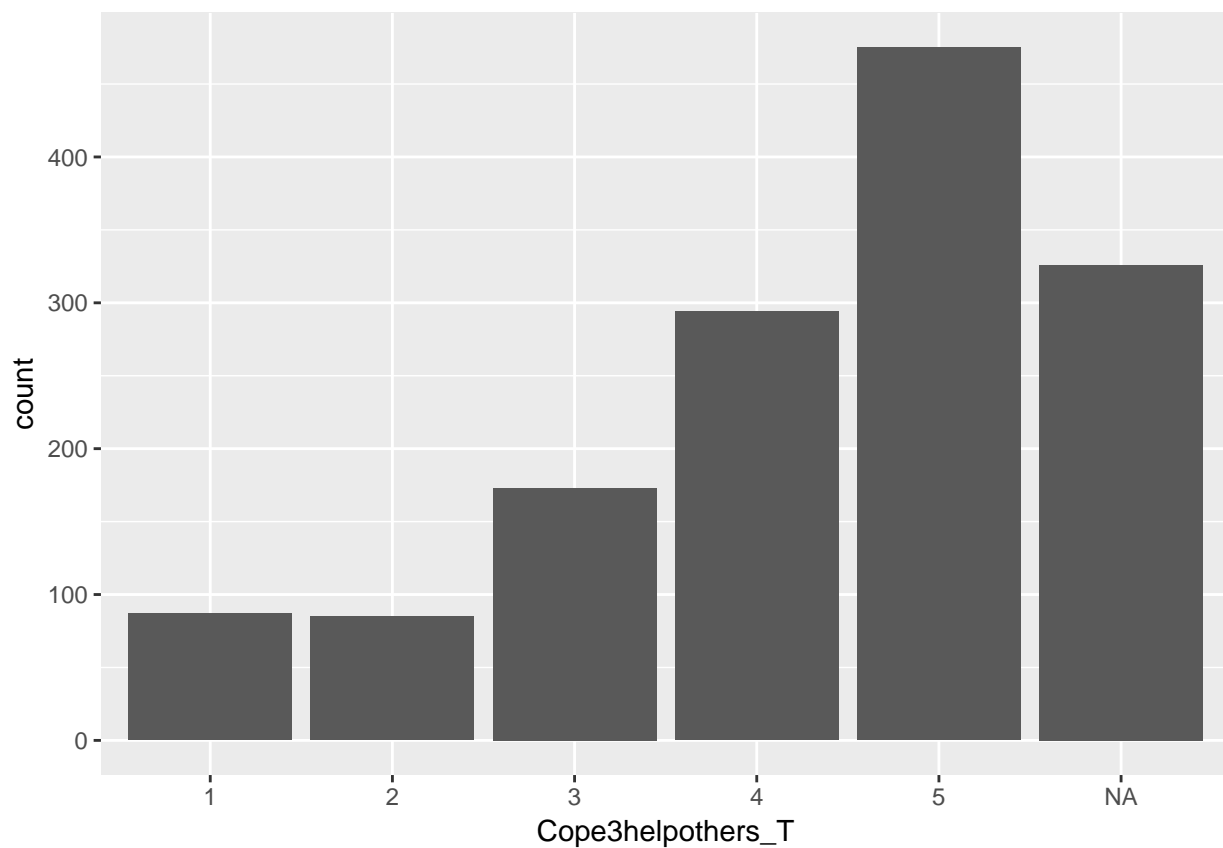
```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```



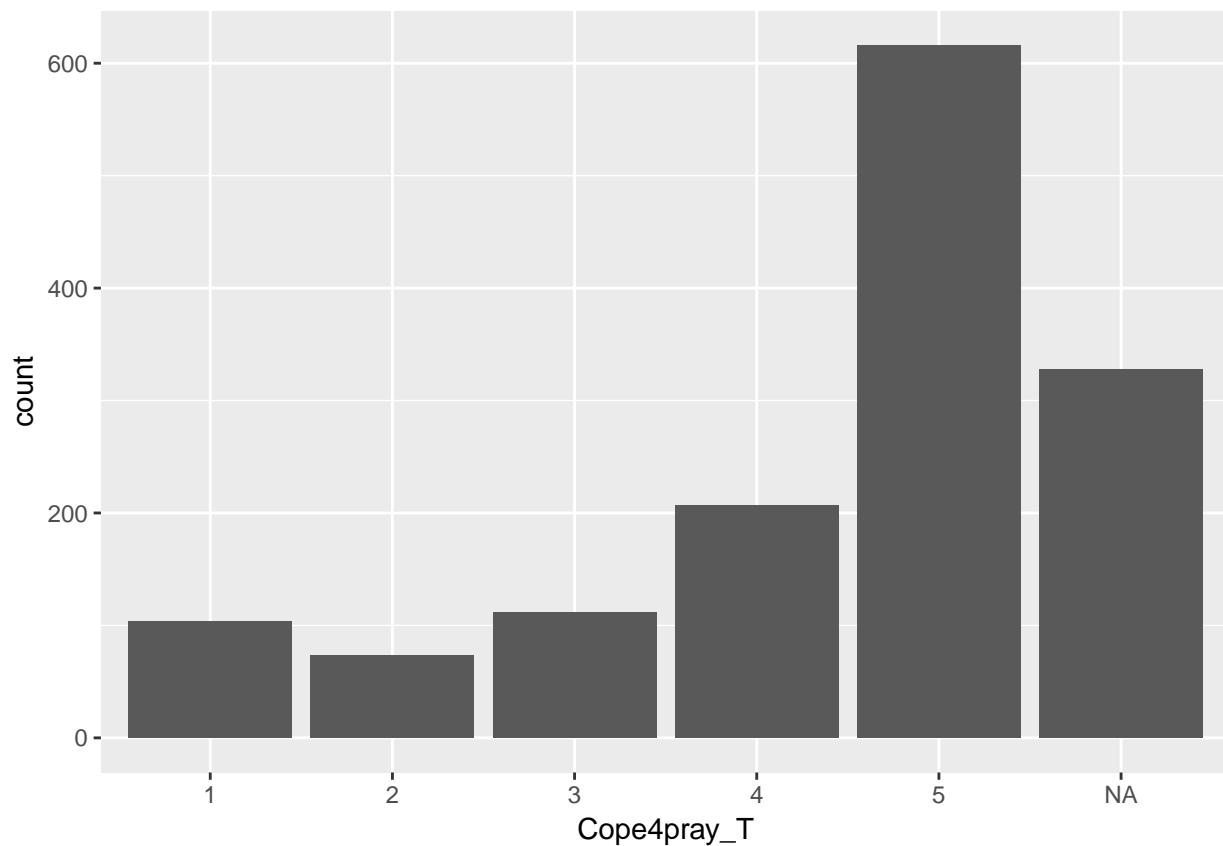
```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```



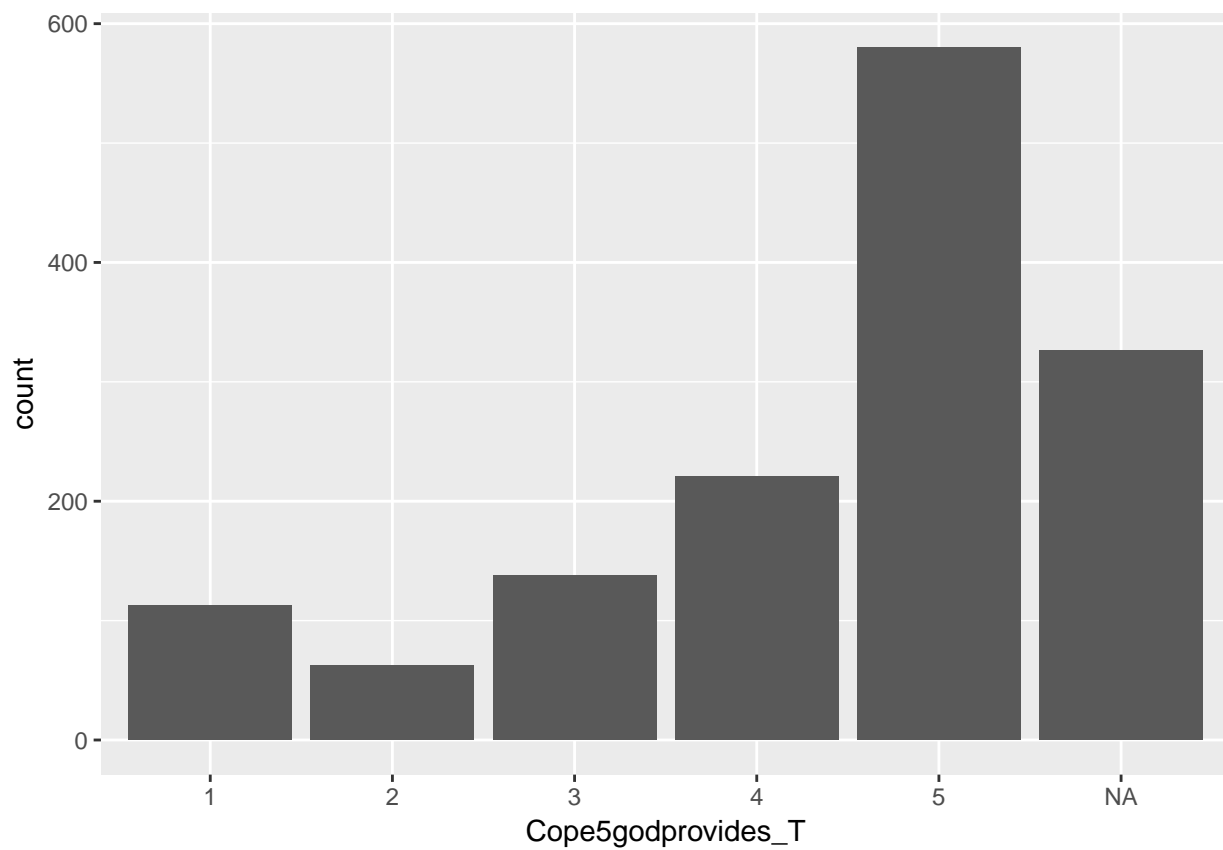
Warning: Ignoring unknown parameters: binwidth, bins, pad



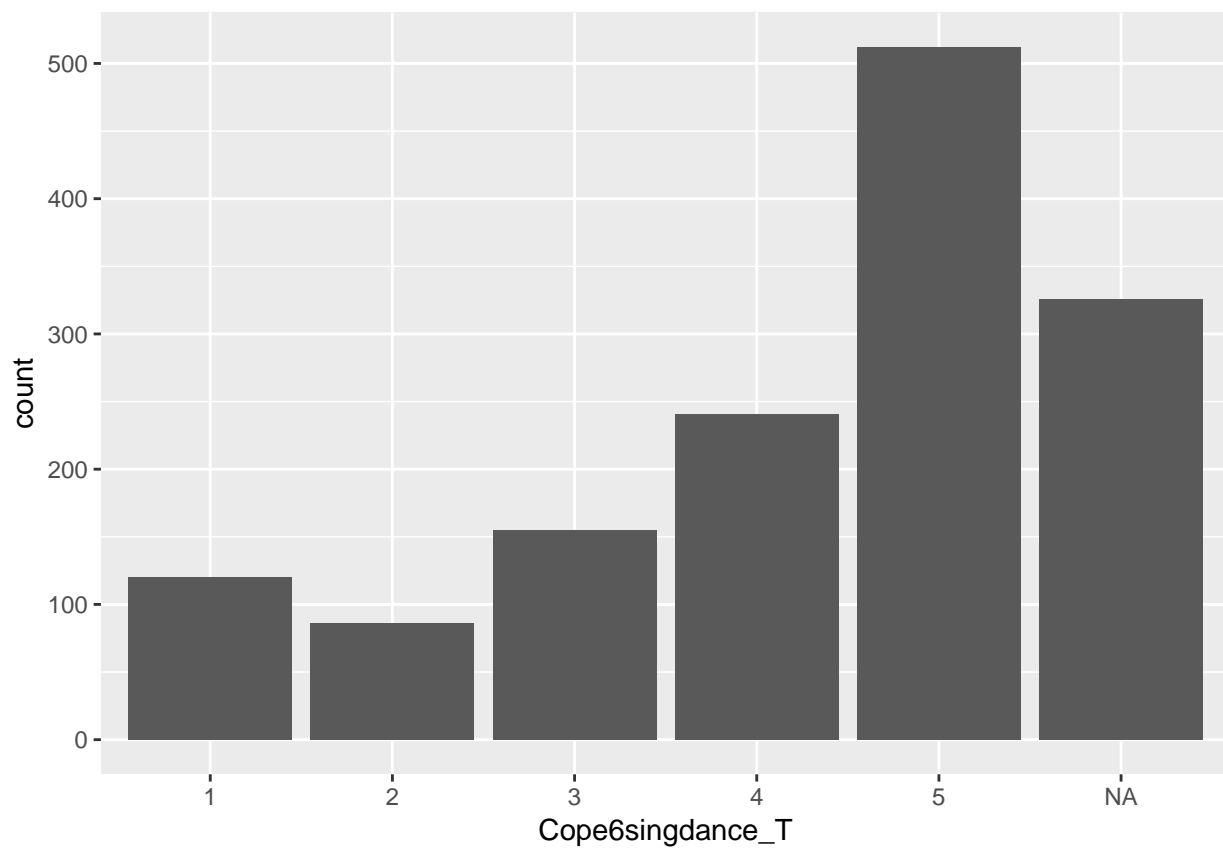
Warning: Ignoring unknown parameters: binwidth, bins, pad



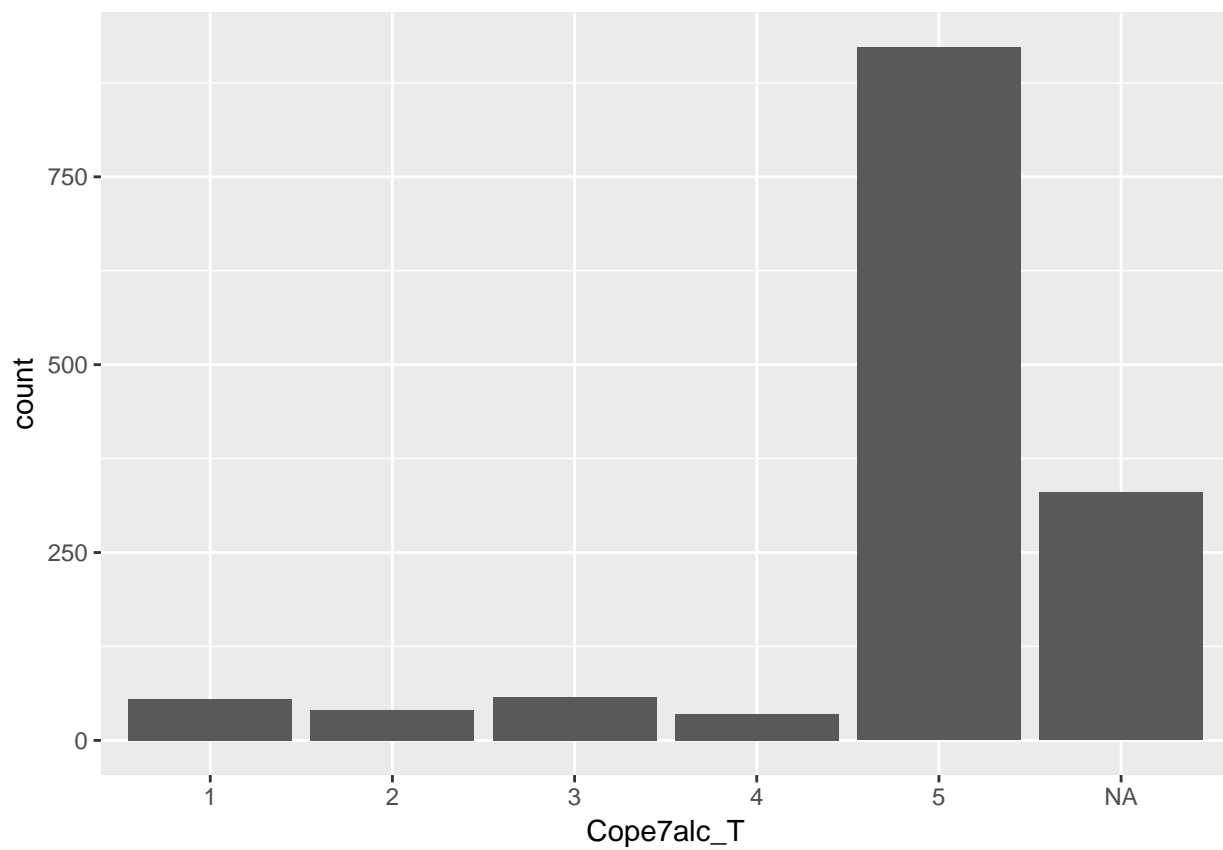
Warning: Ignoring unknown parameters: binwidth, bins, pad



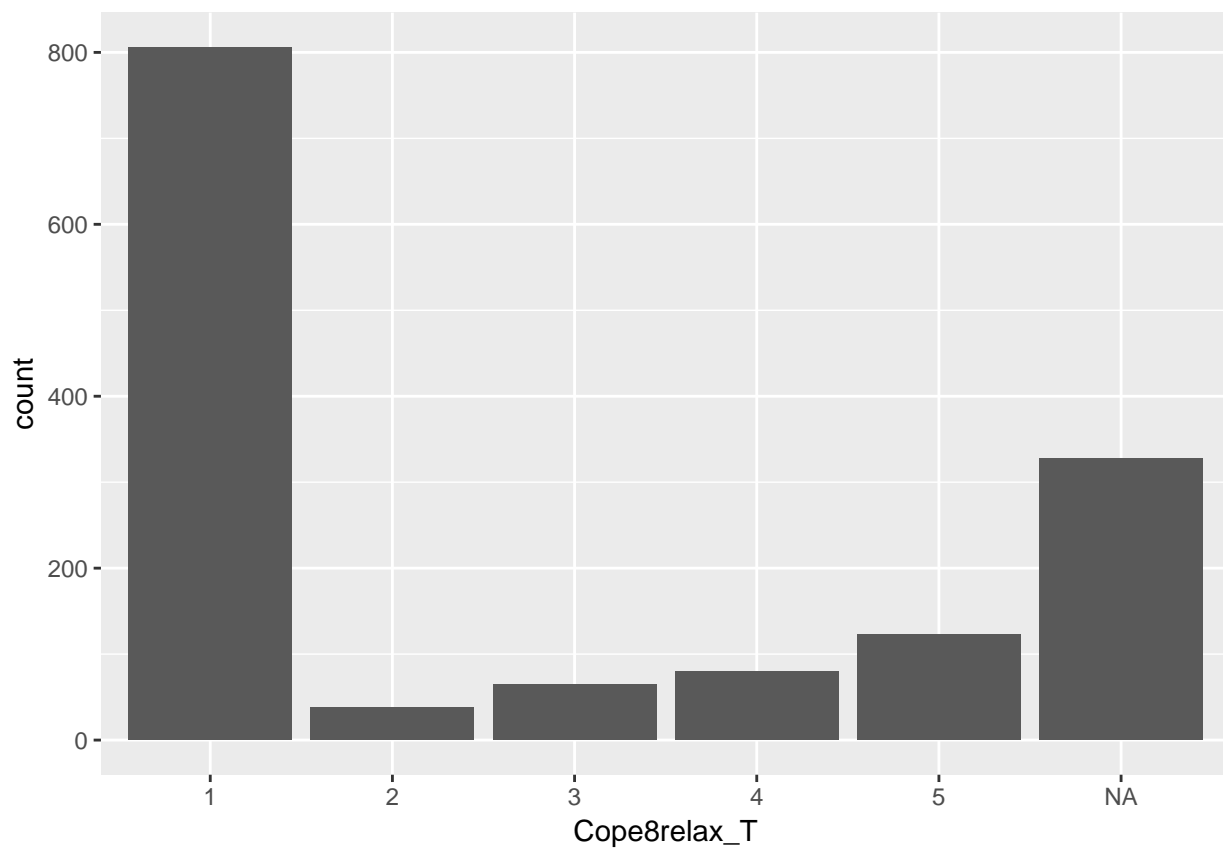
Warning: Ignoring unknown parameters: binwidth, bins, pad



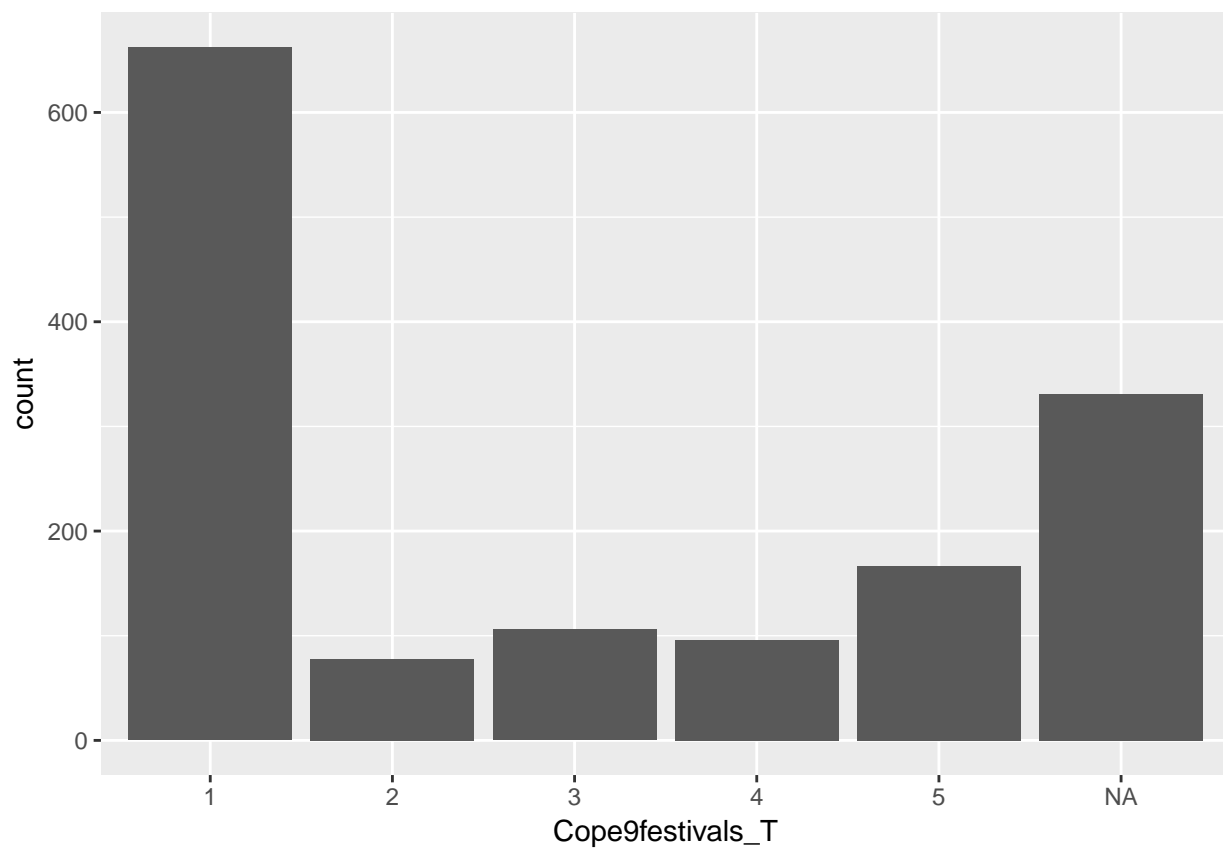
Warning: Ignoring unknown parameters: binwidth, bins, pad



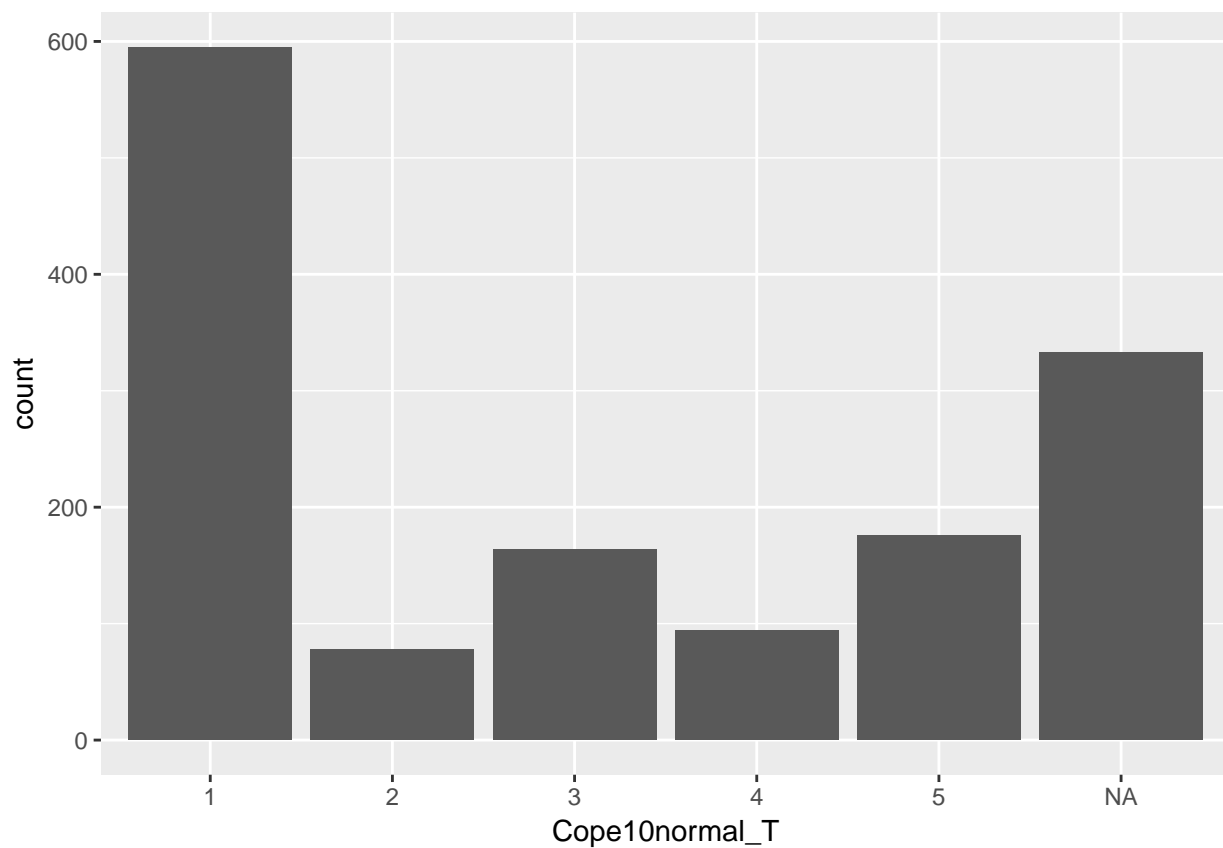
Warning: Ignoring unknown parameters: binwidth, bins, pad



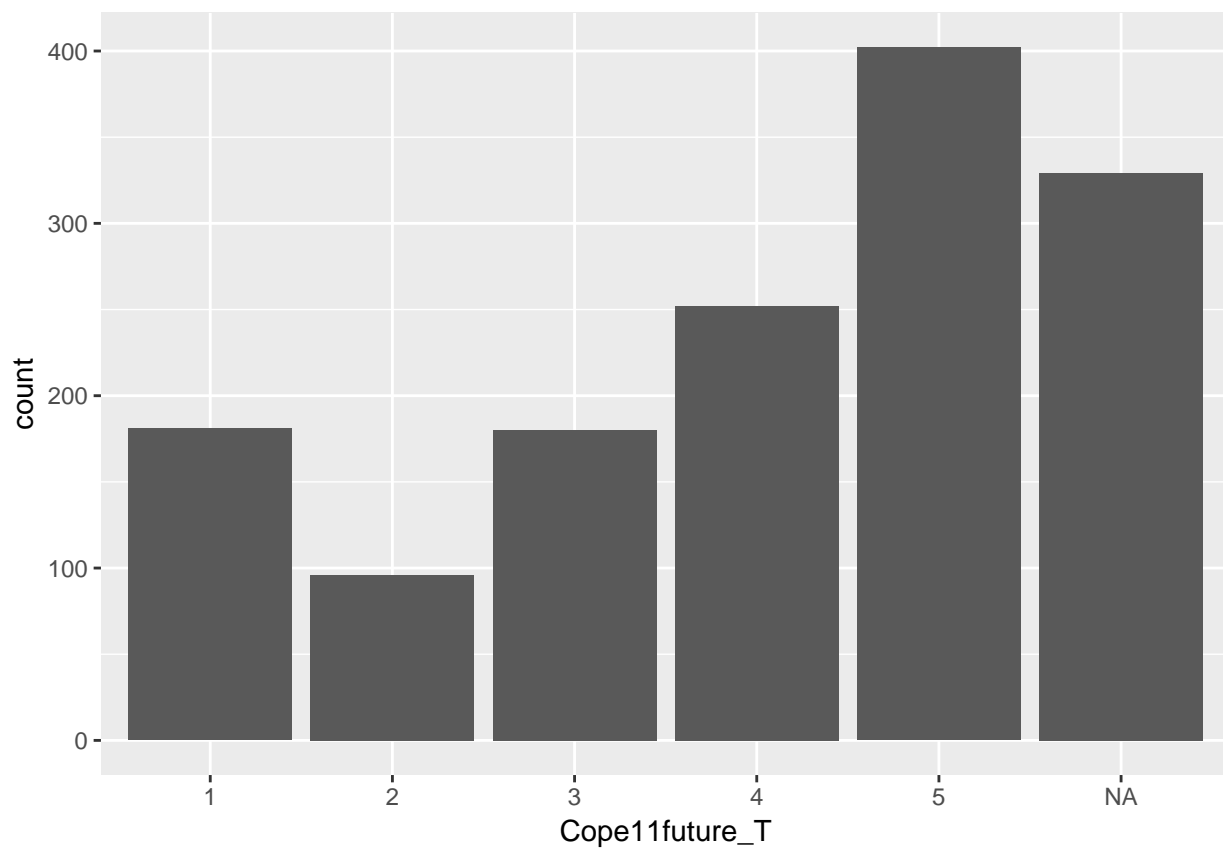
Warning: Ignoring unknown parameters: binwidth, bins, pad



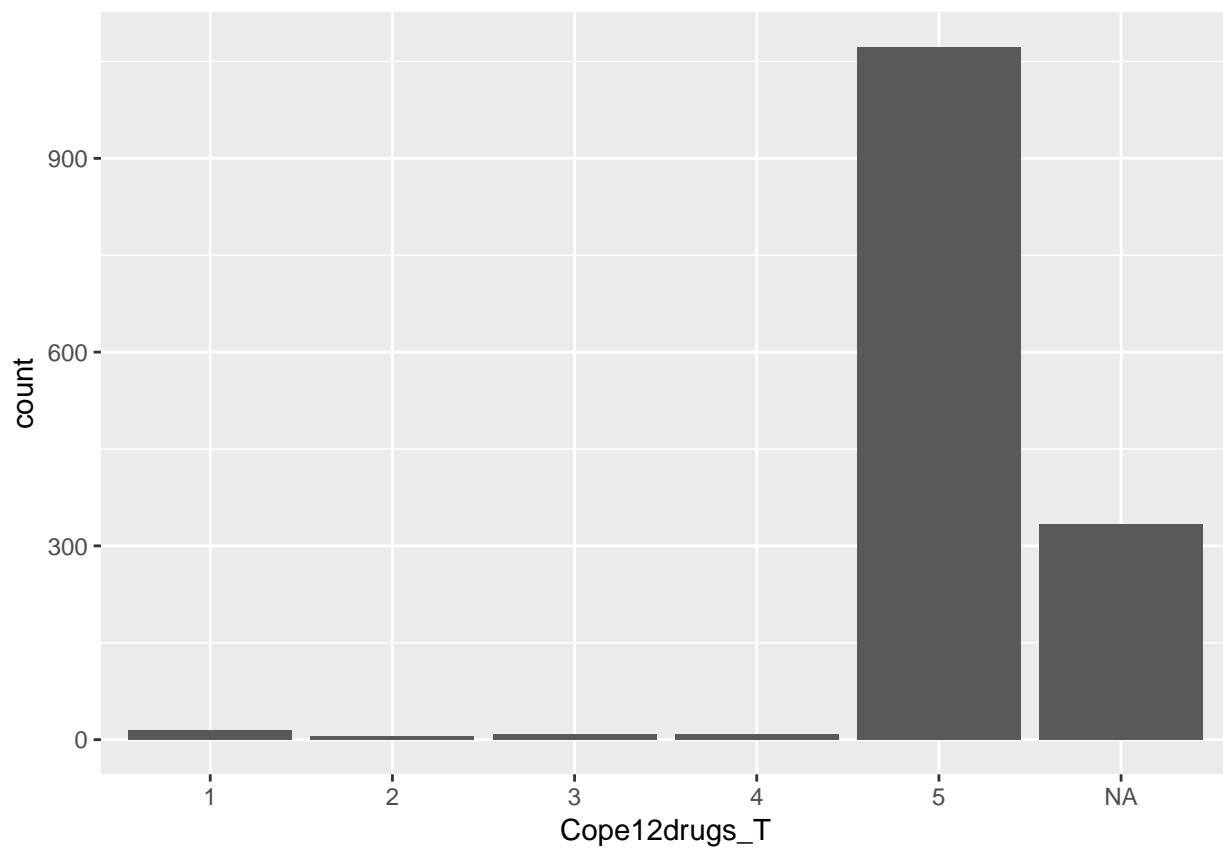
Warning: Ignoring unknown parameters: binwidth, bins, pad



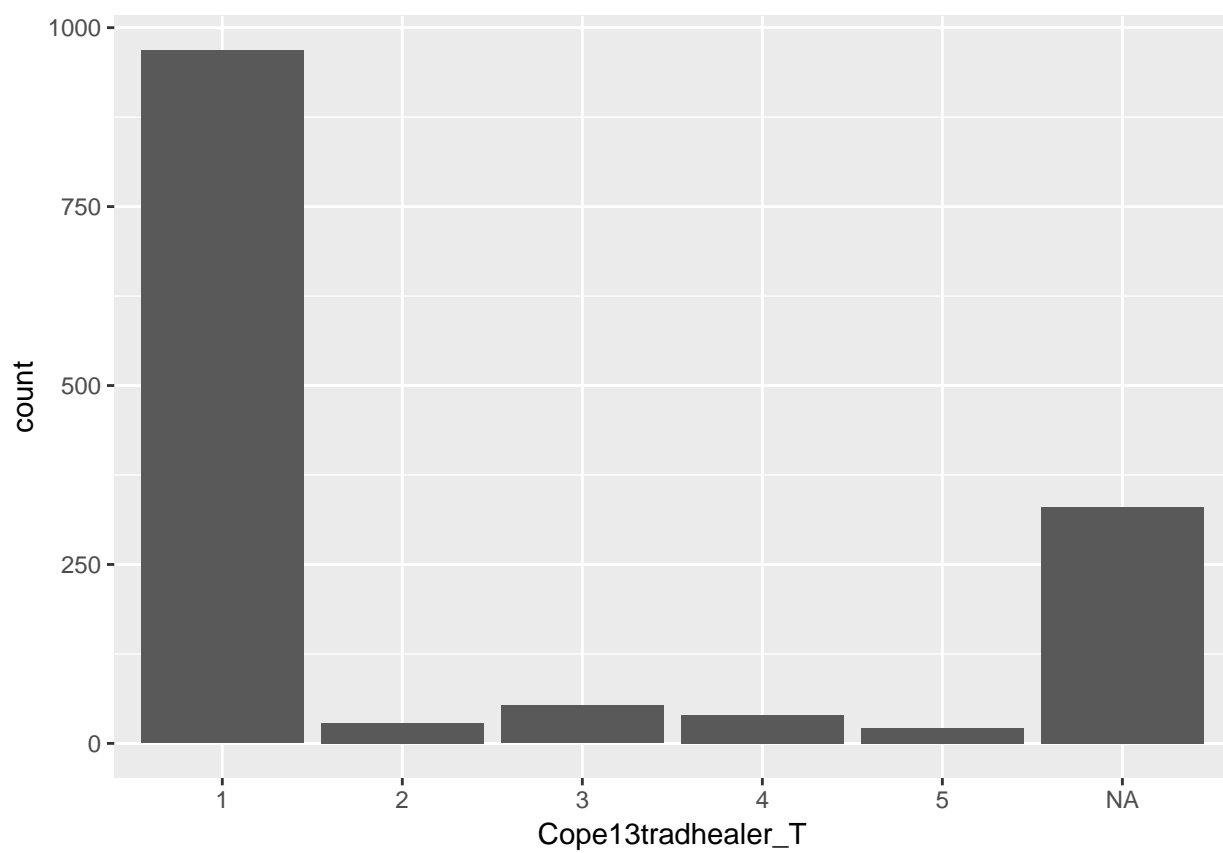
Warning: Ignoring unknown parameters: binwidth, bins, pad



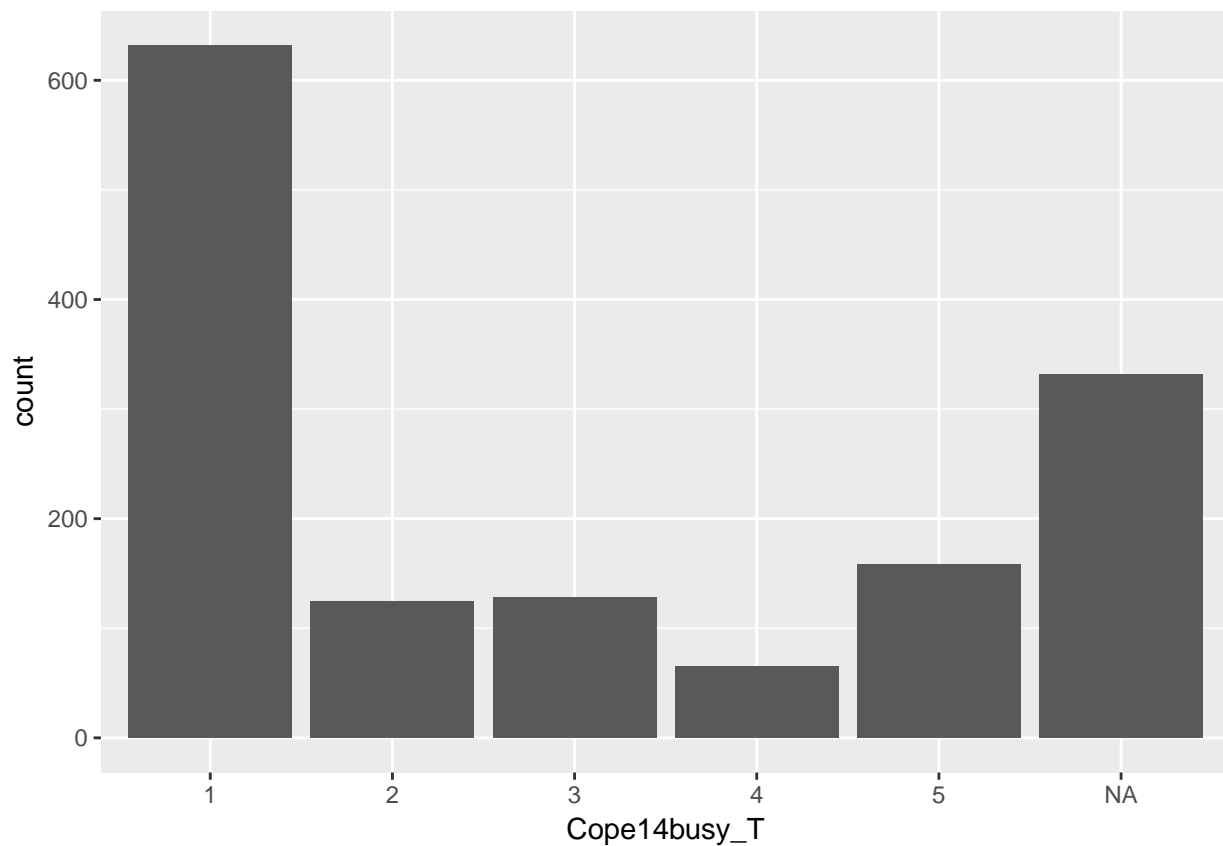
Warning: Ignoring unknown parameters: binwidth, bins, pad



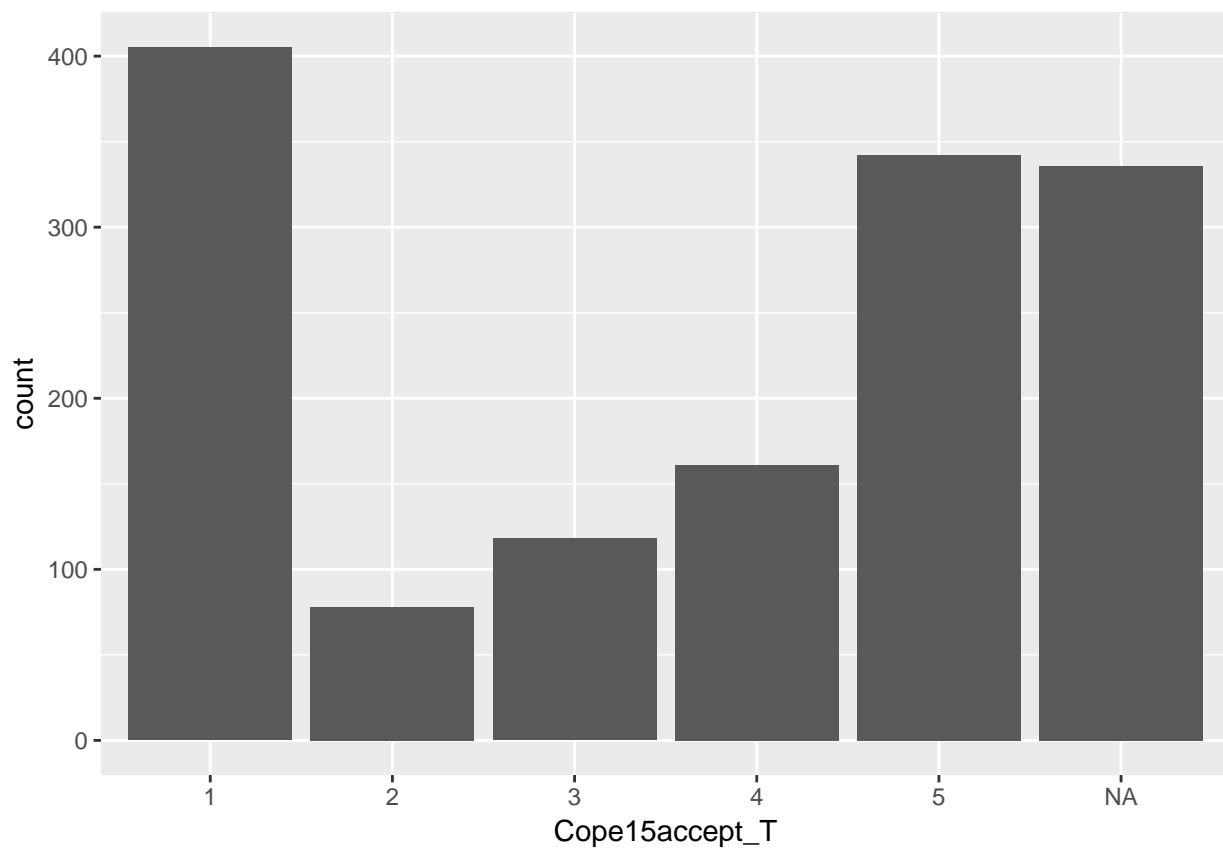
Warning: Ignoring unknown parameters: binwidth, bins, pad



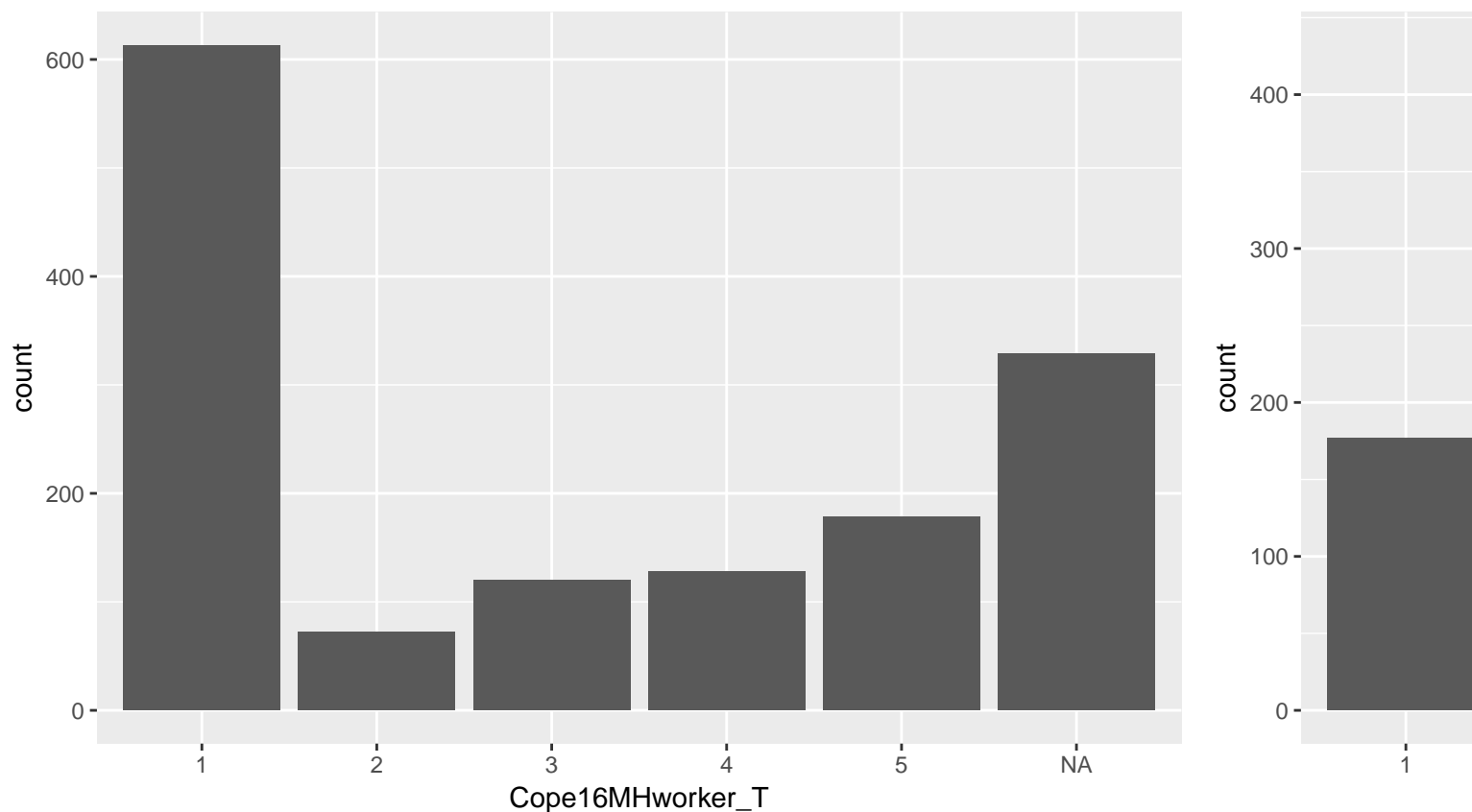
Warning: Ignoring unknown parameters: binwidth, bins, pad



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 survey.

```
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
## T1Trauma130theraccid    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
## T1Trauma130theraccid    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
## T1Trauma130theraccid      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
## T1Trauma130theraccid      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, T1FuncMen4))
```

```
##
## 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, T1FuncWom4, T1FuncWom5))

##
## 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(HGDfuturesdisprephelp_T, HGDfutureafterdishelp_T))
##
## Reliability analysis
## Call: psych::alpha(x = data %>% filter(timePoint_factor == "1") %>%
##      select(HGDfuturesdisprephelp_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
## HGDfuturesdisprephelp_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
## HGDfuturesdisprephelp_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
## HGDfuturesdisprephelp_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" & interventiongroup
```

```
##
## 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_T,
```

```
## 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
```

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

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

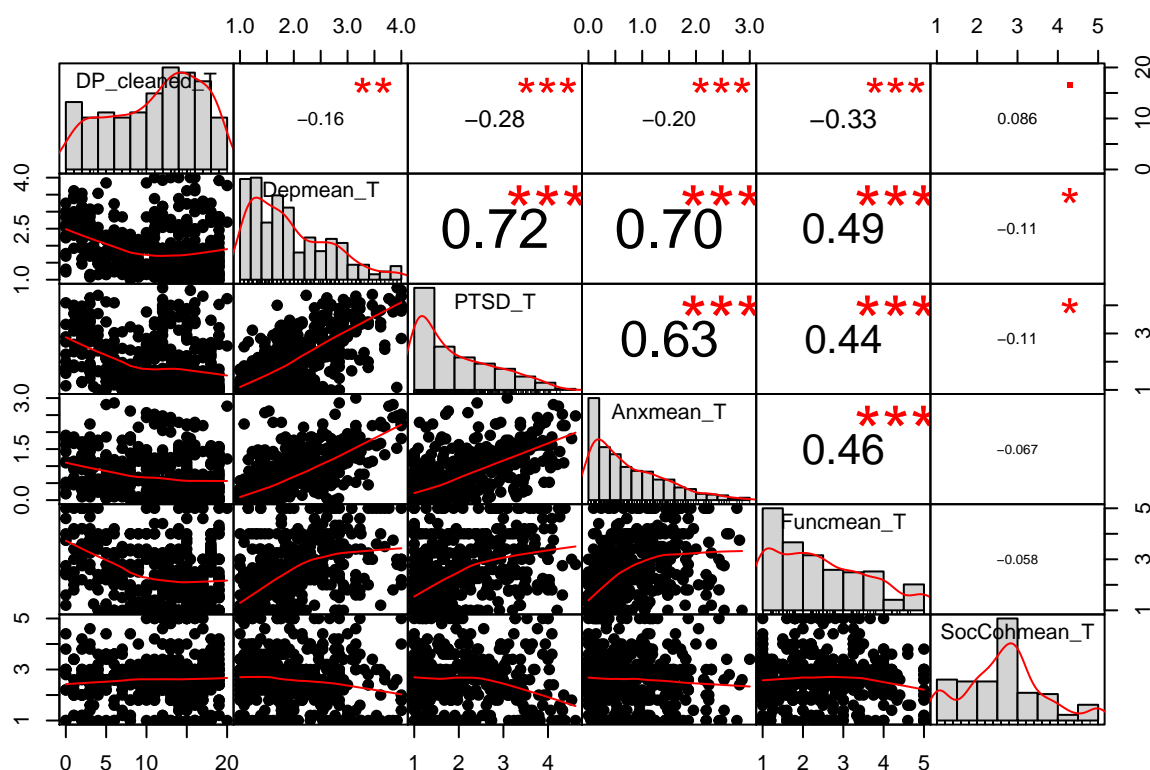
```
## Warning in title(...): "method" is not a graphical parameter
```



```

## not a graphical parameter
## Warning in plot.xy(xy.coords(x, y), type = type, ...): "method" is not a
## graphical parameter
## 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
## Warning in plot.xy(xy.coords(x, y), type = type, ...): "method" is not a
## graphical parameter
## 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
## Warning in axis(side = side, at = at, labels = labels, ...): "method" is
## not a graphical parameter
## Warning in plot.xy(xy.coords(x, y), type = type, ...): "method" is not a
## graphical parameter
## 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
## Warning in plot.xy(xy.coords(x, y), type = type, ...): "method" is not a
## graphical parameter
## 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
## Warning in axis(side = side, at = at, labels = labels, ...): "method" is
## not a graphical parameter
## Warning in plot.xy(xy.coords(x, y), type = type, ...): "method" is not a
## graphical parameter
## 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

```



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)
```

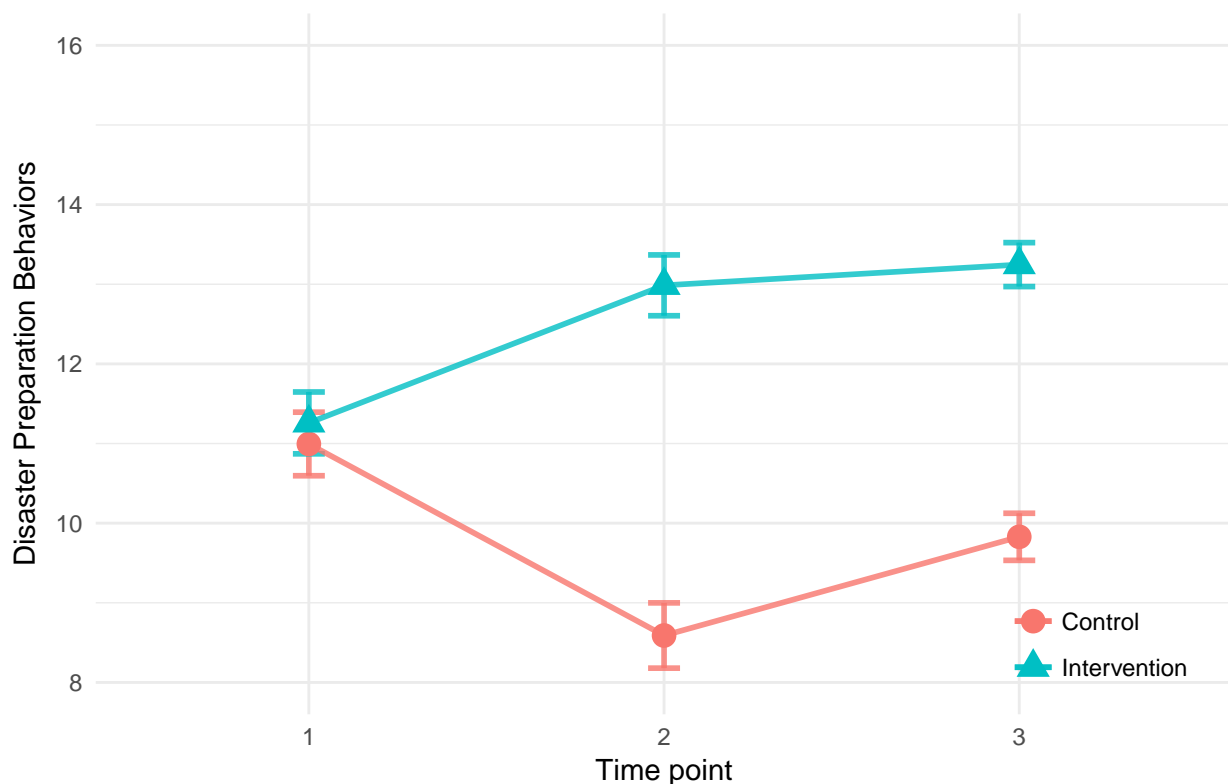
```

}
print(line)
}

limits <- c(8,16)
theme <- theme_minimal()
rng <- 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, rng = rng, by =

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

```



20-item yes/no scale (range 0 – 20), with greater values indicating greater engagement in disaster 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_factor",
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_factor",
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")

##   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 = DPT_excludedItems_MM)
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(lsmmeans::lsmmeans(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
```



```

PTSD_avoid_T_model <- lmer(PTSD_avoid_T ~ interventiongroup * timePoint_factor + (1|Locationcode/T1ParticipantID)
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: 2553.9
##
## 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) 0.197214 0.44409
## Locationcode                (Intercept) 0.009878 0.09939
## Residual                    0.414470 0.64379
## Number of obs: 1116, groups:
## T1ParticipantID:Locationcode, 477; Locationcode, 3
##
## Fixed effects:
##
##              Estimate Std. Error
## (Intercept)      0.62813    0.07671
## interventiongroupIntervention      0.02173    0.07169
## timePoint_factor2      0.03629    0.07024
## timePoint_factor3     -0.06633    0.06775
## interventiongroupIntervention:timePoint_factor2 -0.35224    0.09732
## interventiongroupIntervention:timePoint_factor3 -0.21673    0.09425
##
##              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
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(lsmmeans::lsmmeans(PTSD_avoid_T_model, ~ interventiongroup * timePoint_factor), by = "timePo

## timePoint_factor contrast      estimate      SE      df
## 2      Control - Intervention 0.3305026 0.08737861 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(lsmmeans::lsmmeans(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(lsmmeans::lsmmeans(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 = filtered
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(lsmmeans::lsmmeans(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(lsmmeans::lsmmeans(DisMHmean_T_model, ~ interventiongroup * timePoint_factor), by = "timePoint_factor"),
  ## 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(lsmmeans::lsmmeans(DisMH1AnxT_model, ~ interventiongroup * timePoint_factor), by = "timePoint_factor")))
```

```
## 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(lsmmeans::lsmmeans(DisMH2DepT_model, ~ interventiongroup * timePoint_factor), by = "timePoint_factor")))
```

```
## 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/T1ParticipantID))
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(lsmmeans::lsmmeans(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_factor")))
```

```
## 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_data)
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(lsmmeans::lsmmeans(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
```

```
summary(rbind(pairs(lsmmeans::lsmmeans(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

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
```

```
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
```

```
summary(rbind(pairs(lsmmeans::lsmmeans(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
```

```
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
```

```
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(lsmmeans::lsmmeans(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(lsmmeans::lsmmeans(Fatalism_T_model, ~ interventiongroup * timePoint_factor), by = "timePoint_factor"))
```

```
## 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|Locationcode)
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(lsmmeans::lsmmeans(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
SocCoh3disprepreceivedhelp_T3_model <- glm(SocCoh3disprepreceivedhelp_T3 ~ interventiongroup, data = filtered,
summary(SocCoh3disprepreceivedhelp_T3_model)

##
## Call:
## glm(formula = SocCoh3disprepreceivedhelp_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|T1ParticipantID),
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|T1ParticipantID)
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), data =
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
## intrvntngr1 -0.459 -0.053

HSMHDistressfault_T_model <- clmm(HSMHDistressfault_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID),
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(lsmmeans::lsmmeans(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(lsmmeans::lsmmeans(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: HGDfuturesdisprephelp_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(HGDfuturesdisprephelp_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(lsmmeans::lsmmeans(HGDfutureafterdishelp_T_model, ~ interventiongroup * timePoint_factor), b

## 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(lsmmeans::lsmmeans(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.
```

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

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
## Approximation) [glmerMod]
## Family: binomial ( logit )
## Formula: HGMHskillshehelp_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(lsmmeans::lsmmeans(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(lsmmeans::lsmmeans(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/T1ParticipantID)
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|T1Participi
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(lsmmeans::lsmmeans(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), b
```

```
## 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), b

## 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(lsmmeans::lsmmeans(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_factor,
```

```
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_factor),
## 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(lsmmeans::lsmmeans(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(lsmmeans::lsmmeans(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|T1ParticipantID)
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(lsmmeans::lsmmeans(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|T1ParticipantID), data = DisAtNatural_data)
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(lsmmeans::lsmmeans(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|T1ParticipantID)
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(lsmmeans::lsmmeans(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(lsmmeans::lsmmeans(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(lsmmeans::lsmmeans(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(lsmmeans::lsmmeans(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|Locationcode), data=DisAtHumanmade_mean_T_data)
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

```

```
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
```

```
summary(rbind(pairs(lsmmeans::lsmmeans(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
```

```
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)
```



```
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
```

```
summary(rbind(pairs(lsmmeans::lsmmeans(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
```

```
DisAtEQ2godswill_T_model <- clmm(DisAtEQ2godswill_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID
```

```
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

```
##
```

```
##
```

```
##
```

```
##
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##
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##
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```
##
```

```
##
```

```
##
```

```
## 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)
```

```
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(lsmmeans::lsmmeans(DisAtEQ2godswill_T_model, ~ interventiongroup * timePoint_factor), by = "timePoint_factor",
## 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(lsmmeans::lsmmeans(DisAtEQ3voodoo_T_model, ~ interventiongroup * timePoint_factor), by = "timePoint_factor"),
  pairs(lsmmeans::lsmmeans(DisAtEQ4Badluck_T_model, ~ interventiongroup * timePoint_factor), by = "timePoint_factor")))

## 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(lsmmeans::lsmmeans(DisAtEQ4Badluck_T_model, ~ interventiongroup * timePoint_factor), by = "timePoint_factor"),
  pairs(lsmmeans::lsmmeans(DisAtEQ4Badluck_T_model, ~ interventiongroup * timePoint_factor), by = "timePoint_factor")))

## 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|T1ParticipantID)
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 nobis 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(lsmmeans::lsmmeans(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
```

```

DisAtEQ6humanmade_T_model <- clmm(DisAtEQ6humanmade_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID)
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 nobis 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)
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
summary(rbind(pairs(lsmmeans::lsmmeans(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

DisAtflood1natural_T_model <- clmm(DisAtflood1natural_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID)
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(lsmmeans::lsmmeans(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(lsmmeans::lsmmeans(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|T1ParticipantID)
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(lsmmeans::lsmmeans(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|T1ParticipantID)
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(lsmmeans::lsmmeans(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(lsmmeans::lsmmeans(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
```

```
DisAtpeoplelnatural_T_model <- clmm(DisAtpeoplelnatural_T ~ interventiongroup * timePoint_factor + (1|T1ParticipantID)
summary(DisAtpeoplelnatural_T_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAtpeoplelnatural_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|T1ParticipantID)
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(lsmmeans::lsmmeans(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|T1ParticipantID)
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
##
```



```
## 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(lsmmeans::lsmmeans(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(lsmmeans::lsmmeans(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])
se_2 <- sapply(models, function(x) coef(summary(x))['interventiongroupIntervention:timePoint_factor2',2])
p_2 <- sapply(models, function(x) coef(summary(x))['interventiongroupIntervention:timePoint_factor2', ncol(coef
d_2 <- vector(mode="numeric", length=length(coefs_2))

coefs_3 <- sapply(models, function(x) coef(summary(x))['interventiongroupIntervention:timePoint_factor3',1])
se_3 <- sapply(models, function(x) coef(summary(x))['interventiongroupIntervention:timePoint_factor3',2])
p_3 <- sapply(models, function(x) coef(summary(x))['interventiongroupIntervention:timePoint_factor3', ncol(coef
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))['interventiongroupInterve

## 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))['interventiongroupInter

## 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 % Sun Apr 08 21:37:07 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 % Sun Apr 08 21:37:07 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 % Sun Apr 08 21:37:07 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$DisMH2DepT),
as.numeric(vars$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	\tilde{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	-0.35	0.10	0.0003	-0.41	-0.22	0.09	0.0218	-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 (0.072)	0.036 (0.070)	-2.551 ^{***} (0.439)	-2.188 ^{***} (0.415)	-0.235 (0.207)	-1.042 ^{***} (0.204)
Time point = 3	-0.082 (0.069)	-0.066 (0.068)	-1.053 [*] (0.414)	-0.772 [*] (0.391)	-0.573 ^{**} (0.206)	-0.707 ^{***} (0.194)
Intervention	0.076 (0.077)	0.022 (0.072)	0.434 (0.465)	0.521 (0.438)	0.178 (0.196)	0.086 (0.193)
Intervention x Time = 2	-0.459 ^{***} (0.099)	-0.352 ^{***} (0.097)	4.182 ^{***} (0.604)	3.743 ^{***} (0.571)	-0.825 ^{**} (0.298)	-0.535 (0.280)
Intervention x Time = 3	-0.283 ^{**} (0.096)	-0.217 [*] (0.094)	2.905 ^{***} (0.574)	2.533 ^{***} (0.543)	-0.732 [*] (0.293)	-0.358 (0.269)
BIC	2744.516	2617.102	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