Nepal flood RCT analysis

```
melt_data_suffix <- function(var_name) {</pre>
  new_var <- vector(mode = "numeric", length = nrow(data))</pre>
  new_var[data$timePoint_factor == '1'] <- as.numeric(data[[paste0(var_name, '1')]][data$timePoint_fact
  new_var[data$timePoint_factor == '2'] <- as.numeric(data[[paste0(var_name, '2')]][data$timePoint_fact
  new_var[data$timePoint_factor == '3'] <- as.numeric(data[[paste0(var_name, '3')]][data$timePoint_fact
  return(new_var)
}
melt_data_prefix <- function(var_name) {</pre>
  var_name <- substr(var_name, 3, nchar(var_name))</pre>
  new_var <- vector(mode = "numeric", length = nrow(data))</pre>
  new_var <- as.numeric(data[[paste0('T1', var_name)]])</pre>
  new_var[data$timePoint_factor == '1'] <- as.numeric(data[[paste0('T1',var_name)]][data$timePoint_fact
  new_var[data$timePoint_factor == '2'] <- as.numeric(data[[paste0('T2',var_name)]][data$timePoint_fact
  new_var[data$timePoint_factor == '3'] <- as.numeric(data[[paste0('T3',var_name)]][data$timePoint_fact</pre>
  return(new_var)
reverse_melt <- function(data, var_name) {</pre>
  data[[paste0(var name, '1')]] [data$timePoint factor == "1"] <- as.numeric(data[[var name]] [data$timePo
  data[[paste0(var_name, '1')]] [data$timePoint_factor == "2"] <- as.numeric(data[[var_name]] [data$timePo
  data[[paste0(var_name, '1')]] [data$timePoint_factor == "3"] <- as.numeric(data[[var_name]] [data$timePo
  data[[paste0(var_name,'2')]][data$timePoint_factor == "1"] <- as.numeric(data[[var_name]][data$timePo
  data[[paste0(var_name,'2')]][data$timePoint_factor == "2"] <- as.numeric(data[[var_name]][data$timePo
  data[[paste0(var_name,'2')]][data$timePoint_factor == "3"] <- as.numeric(data[[var_name]][data$timePo
  data[[paste0(var_name, '3')]] [data$timePoint_factor == "1"] <- as.numeric(data[[var_name]] [data$timePo
  data[[paste0(var_name,'3')]][data$timePoint_factor == "2"] <- as.numeric(data[[var_name]][data$timePo
  data[[paste0(var_name, '3')]] [data$timePoint_factor == "3"] <- as.numeric(data[[var_name]] [data$timePo
  return(data)
}
count_nas <- function(df, time) {</pre>
  result <- sapply(df[data$timePoint_factor == as.character(time),], function(x) sum(is.na(x)))
  return(result)
}
library(haven)
library(ggplot2)
library(dplyr)
library(gridExtra)
library(scales)
library(lme4)
library(lsmeans)
library(car)
library(RLRsim)
library(stringr)
library(lmerTest)
library(ordinal)
library(RVAideMemoire)
library(magrittr)
```

```
library(xtable)
library(texreg)
library(reporttools)
setwd("C:/Users/ajame/Dropbox/Alex - Nepal/Flood data")
data <- read_dta("NEPAL T1 T2 T3 partial reshape.dta")</pre>
randomization_data <- read_sav("NEPAL T1 T2 T3 Feb2018.sav")</pre>
data <- left_join(data, randomization_data %>% select(PartID, RANDOMIZATION), by = "PartID")
## Warning: Column `PartID` has different attributes on LHS and RHS of join
data$interventiongroup <- factor(data$interventiongroup, levels = levels(factor(data$interventiongroup)
data$RANDOMIZATION <- factor(data$RANDOMIZATION, labels = c('Control', 'Intervention'))</pre>
data$timePoint_factor <- factor(data$timePointZerod, labels = c('1','2','3'))</pre>
#data$interventiongroup[data$timePoint_factor == '3'] <- 'Intervention'
data$gender_factor <- factor(data$T1gender, labels = c('Female','Male'))</pre>
data$functioning <- data$FuncFmean6_T</pre>
data$functioning[!is.na(data$FuncMmean6 T)] <- data$FuncMmean6 T[!is.na(data$FuncMmean6 T)]
data$ID factor <- factor(data$PartID)</pre>
data$loc_factor <- factor(data$T1loccode)</pre>
data$Relig1PrivateactivT[data$Relig1PrivateactivT == 7] <- 6</pre>
data$Relig2PublicactivT[data$Relig2PublicactivT == 7] <- 6</pre>
cope_var_names <- data %>% select(starts_with("T1Cope")) %>% names
for(i in cope_var_names){
  data[[paste0(substr(i,3,nchar(i)), '_T')]] <- melt_data_prefix(i)</pre>
}
cope_var_names <- paste0(substr(cope_var_names, 3, nchar(cope_var_names)),"_T")</pre>
factor dvs <- c('SelfEff1timeT', 'SelfEff2affordT', 'SelfEff3infoT', 'Fat1dontworryT', 'Fat2injuredT',</pre>
data %<>% mutate_at(factor_dvs, funs(factor(.)))
HSMH_sources_names <- c('HSMH2bGodsT', 'HSMH2bPriestT', 'HSMH2bNeighborsT', 'HSMH2bFamilyT', 'HSMH2bFri
for(name in HSMH_sources_names) {
  data[[name]][is.na(data[[name]])] <- ifelse(is.na(data$HSDis2ComfortseekinghelpT[is.na(data[[name]])]
data$interventPlotting <- data$interventiongroup</pre>
data$interventPlotting[data$interventiongroup=="Control" & data$timePoint_factor=='3'] <- 'Intervention
data$interventionLinePlotting <- data$interventPlotting</pre>
data$interventionLinePlotting[data$interventiongroup=="Control" & data$timePoint_factor=='2'] <- 'Inter
data$T1DP1Supplykit[is.na(data$T1DP1Supplykit)] <- mean(data$T1DP1Supplykit, na.rm = TRUE)
data$T1DP3Meds[data$T1DP3Meds == 3] <- mean(data$T1DP3Meds[data$T1DP3Meds != 3], na.rm = TRUE)
data$T2DP3Meds[data$T2DP3Meds == 3] <- mean(data$T2DP3Meds[data$T2DP3Meds != 3], na.rm = TRUE)
data$T3DP3Meds[data$T3DP3Meds == 3] <- mean(data$T3DP3Meds[data$T3DP3Meds != 3], na.rm = TRUE)
data$T1DP5Foodanimals[data$T1DP5Foodanimals == 3] <- mean(data$T1DP5Foodanimals[data$T1DP5Foodanimals]!
data$T2DP5Foodanimals[data$T2DP5Foodanimals == 3] <- mean(data$T2DP5Foodanimals[data$T2DP5Foodanimals]!
data$T3DP5Foodanimals[data$T3DP5Foodanimals == 3] <- mean(data$T3DP5Foodanimals[data$T3DP5Foodanimals]!
data$T1DP15Talktochildren[data$T1DP15Talktochildren == 3] <- mean(data$T1DP15Talktochildren[data$T1DP15
data$T2DP15Talktochildren[data$T2DP15Talktochildren == 3] <- mean(data$T2DP15Talktochildren[data$T2DP15
data$T3DP15Talktochildren[data$T3DP15Talktochildren == 3] <- mean(data$T3DP15Talktochildren[data$T3DP15
data %<>% mutate(DP_cleaned_T1 = select(., T1DP1Supplykit, T1DP2Itemsinhouse, T1DP3Meds, T1DP4Foodpeopl
    T1DP5Foodanimals, T1DP6Docs, T1DP7Firewood, T1DP8Secureddwelling, T1DP9Raiseitems,
    T1DP10Divertwater, T1DP11Removeblowingobj, T1DP12Famemergplan, T1DP13Evacplan,
```

```
T1DP14Reconnectfamplan, T1DP15Talktochildren, T1DP16RadioTVcomp, T1DP17Firstaid,
    T1DP18Cleanwater, T1DP19Disinfect, T1DP2OSanitation, T1DP21Safeplacewaterrise,
    T1DP22SafeplaceEQ, T1DP23Riskysafeplacemap, T1DP24Helpneighbors) %% rowSums,
DP_cleaned_T2 = select(., T2DP1Supplykit, T2DP2Itemsinhouse, T2DP3Meds, T2DP4Foodpeople,
   T2DP5Foodanimals, T2DP6Docs, T2DP7Firewood, T2DP8Secureddwelling, T2DP9Raiseitems,
   T2DP10Divertwater, T2DP11Removeblowingobj, T2DP12Famemergplan, T2DP13Evacplan,
   T2DP14Reconnectfamplan, T2DP15Talktochildren, T2DP16RadioTVcomp, T2DP17Firstaid,
   T2DP18Cleanwater, T2DP19Disinfect, T2DP20Sanitation, T2DP21Safeplacewaterrise,
   T2DP22SafeplaceEQ, T2DP23Riskysafeplacemap, T2DP24Helpneighbors) %>% rowSums,
DP_cleaned_T3 = select(., T3DP1Supplykit, T3DP2Itemsinhouse, T3DP3Meds, T3DP4Foodpeople,
   T3DP5Foodanimals, T3DP6Docs, T3DP7Firewood, T3DP8Secureddwelling, T3DP9Raiseitems,
   T3DP10Divertwater, T3DP11Removeblowingobj, T3DP12Famemergplan, T3DP13Evacplan,
   T3DP14Reconnectfamplan, T3DP15Talktochildren, T3DP16RadioTVcomp, T3DP17Firstaid,
    T3DP18Cleanwater, T3DP19Disinfect, T3DP20Sanitation, T3DP21Safeplacewaterrise,
   T3DP22SafeplaceEQ, T3DP23Riskysafeplacemap, T3DP24Helpneighbors) %>% rowSums)
data$DP_cleaned_T <- melt_data_suffix('DP_cleaned_T')</pre>
to_reverse_melt <- c('BDImean16_T', 'BDIsumT', 'SocCohmean7_T', 'SocCohsum7_T', 'PTSDmean13_T', 'PTSDsu
for(i in to_reverse_melt) {
  data %<>% reverse melt(i)
}
data$interventiongroup <- data$RANDOMIZATION</pre>
filtered <- data
#filtered <- data %>% filter(!is.na(interventiongroup))
#write_dta(filtered, 'C:/Users/ajame/Dropbox/Alex - Nepal/Flood data/Nepal RCT partial reshape DP clean
First let's get descriptive statistics on disaster preparedness items.
T1_DP_vars <- filtered %>% filter(timePoint_factor == "1") %>% dplyr::select(T1DP1Supplykit, T1DP2Items
   T1DP5Foodanimals, T1DP6Docs, T1DP7Firewood, T1DP8Secureddwelling, T1DP9Raiseitems,
    T1DP10Divertwater, T1DP11Removeblowingobj, T1DP12Famemergplan, T1DP13Evacplan,
   T1DP14Reconnectfamplan, T1DP15Talktochildren, T1DP16RadioTVcomp, T1DP17Firstaid,
   T1DP18Cleanwater, T1DP19Disinfect, T1DP20Sanitation, T1DP21Safeplacewaterrise,
   T1DP22SafeplaceEQ, T1DP23Riskysafeplacemap, T1DP24Helpneighbors, T1loccode)
T2_DP_vars <- filtered %>% filter(timePoint_factor == "2") %>% dplyr::select(T2DP1Supplykit, T2DP2Items
    T2DP5Foodanimals, T2DP6Docs, T2DP7Firewood, T2DP8Secureddwelling, T2DP9Raiseitems,
   T2DP10Divertwater, T2DP11Removeblowingobj, T2DP12Famemergplan, T2DP13Evacplan,
   T2DP14Reconnectfamplan, T2DP15Talktochildren, T2DP16RadioTVcomp, T2DP17Firstaid,
   T2DP18Cleanwater, T2DP19Disinfect, T2DP20Sanitation, T2DP21Safeplacewaterrise,
   T2DP22SafeplaceEQ, T2DP23Riskysafeplacemap, T2DP24Helpneighbors)
T3_DP_vars <- filtered %>% filter(timePoint_factor == "3") %>% dplyr::select(T3DP1Supplykit, T3DP2Items
    T3DP5Foodanimals, T3DP6Docs, T3DP7Firewood, T3DP8Secureddwelling, T3DP9Raiseitems,
   T3DP10Divertwater, T3DP11Removeblowingobj, T3DP12Famemergplan, T3DP13Evacplan,
    T3DP14Reconnectfamplan, T3DP15Talktochildren, T3DP16RadioTVcomp, T3DP17Firstaid,
    T3DP18Cleanwater, T3DP19Disinfect, T3DP2OSanitation, T3DP21Safeplacewaterrise,
   T3DP22SafeplaceEQ, T3DP23Riskysafeplacemap, T3DP24Helpneighbors)
```

First by time point then by community within time point 1.

tableNominal(vars = as.data.frame(dplyr::select(T1_DP_vars, -T1loccode)), lab = "tabdp1", longtable = T

% latex table generated in R 3.4.3 by x table 1.8-2 package % Mon Mar 05 15:51:54 2018

Variable	Levels	n	%
T1DP1Supplykit	0	21	4.4
	0.954446854663774	19	4.0
	1	440	91.7
	all	480	100.0
T1DP2Itemsinhouse	0	31	6.5
	1	448	93.5
	all	479	100.0
T1DP3Meds	0	59	12.3
	0.822289156626506 1	148 273	$30.8 \\ 56.9$
	all	480	100.0
T1DP4Foodpeople	0	24	5.0
11DF 4Foodpeople	1	454	95.0
	all	478	100.0
T1DP5Foodanimals	0	30	6.2
11DF 9F00dammais	0.933628318584071	28	5.8
	1	422	87.9
	all	480	100.0
T1DP6Docs	0	1	0.2
TIDI ODOCS	1	477	99.8
	all	478	100.0
T1DP7Firewood	0	9	1.9
	1	469	98.1
	all	478	100.0
T1DP8Secureddwelling	0	39	8.2
C	1	439	91.8
	all	478	100.0
T1DP9Raiseitems	0	3	0.6
	1	476	99.4
	all	479	100.0
T1DP10Divertwater	0	122	25.6
	1	354	74.4
	all	476	100.0
T1DP11Removeblowingobj	0	30	6.3
	1	446	93.7
	all	476	100.0
T1DP12Famemergplan	0	20	4.2
	1	460	95.8
TIDD10F	all	480	100.0
T1DP13Evacplan	0	18	3.8
	all	462	96.2
TIDDIAD IS			100.0
T1DP14Reconnectfamplan	$0 \\ 1$	130 347	$\frac{27.2}{72.8}$
	all	477	$\frac{72.8}{100.0}$
T1DP15Talktochildren			9.2
TIDE 19 TAIKLOCHHIGTEN	0 0.902004454342984	44 30	6.3
	1	405	84.5
	all	479	100.0
T1DP16RadioTVcomp	0	35	7.3
	1	444	92.7
	all	479	100.0
T1DP17Firstaid	0	267	55.7
	1	212	44.3
	all	479	100.0
T1DP18Cleanwater	0	79	16.5
		-	

	1	401	83.5
	all	480	100.0
T1DP19Disinfect	0	84	17.6
	1	394	82.4
	all	478	100.0
T1DP20Sanitation	0	23	4.8
	1	453	95.2
	all	476	100.0
T1DP21Safeplacewaterrise	0	10	2.1
	1	465	97.9
	all	475	100.0
T1DP22SafeplaceEQ	0	183	38.7
	1	290	61.3
	all	473	100.0
T1DP23Riskysafeplacemap	0	8	1.7
	1	471	98.3
	all	479	100.0
T1DP24Helpneighbors	0	11	2.3
- -	1	468	97.7
	all	479	100.0
4 D 1 1 1 1 1 1 1 1 1 1 1 1			

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

% latex table generated in R 3.4.3 by x table 1.8-2 package % Mon Mar 05 15:51:54 2018

Variable	Levels	n	%
T2DP1Supplykit	0	60	14.8
	1	346	85.2
	all	406	100.0
T2DP2Itemsinhouse	0	18	4.4
	1	388	95.6
	all	406	100.0
T2DP3Meds	0	15	3.7
	0.935897435897436	172	42.4
	1	219	53.9
	all	406	100.0
T2DP4Foodpeople	0	30	7.4
	1	376	92.6
	all	406	100.0
T2DP5Foodanimals	0	30	7.4
	0.922077922077922	21	5.2
	1	355	87.4
	all	406	100.0
T2DP6Docs	1	405	100.0
	all	405	100.0
T2DP7Firewood	0	8	2.0
	1	398	98.0
	all	406	100.0
T2DP8Secureddwelling	0	57	14.0
	1	349	86.0
	all	406	100.0
T2DP9Raiseitems	0	15	3.7
	1	391	96.3
	all	406	100.0
T2DP10Divertwater	0	97	23.9
	1	309	76.1
	all	406	100.0
T2DP11Removeblowingobj	0	7	1.7
	1	399	98.3

	all	406	100.0
T2DP12Famemergplan	0	107	26.4
Gr 4	1	299	73.7
	all	406	100.0
T2DP13Evacplan	0	41	10.1
•	1	365	89.9
	all	406	100.0
T2DP14Reconnectfamplan	0	117	28.8
	1	289	71.2
	all	406	100.0
T2DP15Talktochildren	0	44	10.8
	0.881720430107527	34	8.4
	1	328	80.8
	all	406	100.0
T2DP16RadioTVcomp	0	61	15.0
_	1	345	85.0
	all	406	100.0
T2DP17Firstaid	0	168	41.4
	1	238	58.6
	all	406	100.0
T2DP18Cleanwater	0	31	7.7
	1	373	92.3
	all	404	100.0
T2DP19Disinfect	0	54	13.3
	1	352	86.7
	all	406	100.0
T2DP20Sanitation	0	6	1.5
	1	400	98.5
	all	406	100.0
T2DP21Safeplacewaterrise	0	6	1.5
	1	399	98.5
	all	405	100.0
T2DP22SafeplaceEQ	0	51	12.6
	1	353	87.4
	all	404	100.0
T2DP23Riskysafeplacemap	0	4	1.0
	1	401	99.0
	all	405	100.0
T2DP24Helpneighbors	0	18	4.4
	1	388	95.6
	all	406	100.0
2. Descriptive statistics of disc	ster proparation behav	iore tin	20 2 011001

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

% latex table generated in R 3.4.3 by x table 1.8-2 package % Mon Mar 05 15:51:55 2018

Variable	Levels	n	%
T3DP1Supplykit	0	123	28.7
	1	306	71.3
	all	429	100.0
T3DP2Itemsinhouse	0	10	2.3
	1	418	97.7
	all	428	100.0
T3DP3Meds	0	5	1.2
	0.979423868312757	185	43.2
	1	238	55.6
	all	428	100.0
T3DP4Foodpeople	0	9	2.1
	1	419	97.9

	all	428	100.0
T3DP5Foodanimals	0	9	2.1
13D1 91 00dammais	0.977040816326531	37	8.6
	1	383	89.3
	all	429	100.0
T3DP6Docs	0	1	0.2
	1	428	99.8
	all	429	100.0
T3DP7Firewood	0	22	5.2
	1	405	94.8
	all	427	100.0
T3DP8Secureddwelling	0	90	21.0
	all	339 429	$\frac{79.0}{100.0}$
T3DP9Raiseitems			
13DP9Raiseitems	0 1	$\begin{vmatrix} 8 \\ 420 \end{vmatrix}$	$\frac{1.9}{98.1}$
	all	428	100.0
T3DP10Divertwater	0	124	28.9
19D1 10D1ve1twater	1	305	71.1
	all	429	100.0
T3DP11Removeblowingobj	0	2	0.5
	1	427	99.5
	all	429	100.0
T3DP12Famemergplan	0	124	28.9
	1	305	71.1
	all	429	100.0
T3DP13Evacplan	0	66	15.4
	1	362	84.6
	all	428	100.0
T2DD14Dacannactformulan		112	26.1
T3DP14Reconnectfamplan	0	1	-
13DF14Reconnectiampian	1	317	73.9
	1 all	317 429	73.9
T3DP15Talktochildren	1 all	317 429 72	73.9 100.0 16.8
	1 all	317 429 72 37	73.9 100.0 16.8 8.6
	1 all 0 0.816326530612245	317 429 72	73.9 100.0 16.8
T3DP15Talktochildren	1 all 0 0.816326530612245 1	317 429 72 37 320	73.9 100.0 16.8 8.6 74.6
	1 all 0 0.816326530612245 1 all	317 429 72 37 320 429	73.9 100.0 16.8 8.6 74.6 100.0
T3DP15Talktochildren	1 all 0 0.816326530612245 1 all	317 429 72 37 320 429 59	73.9 100.0 16.8 8.6 74.6 100.0 13.8
T3DP15Talktochildren	1 all 0 0.816326530612245 1 all 0	317 429 72 37 320 429 59 369 428	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2
T3DP15Talktochildren T3DP16RadioTVcomp	1 all 0 0.816326530612245 1 all 0 1 all 0 1	317 429 72 37 320 429 59 369 428 101 328	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid	1 all 0 0.816326530612245 1 all 0 1 all	317 429 72 37 320 429 59 369 428	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5
T3DP15Talktochildren T3DP16RadioTVcomp	1 all 0 0.816326530612245 1 all 0 1 all 0 1 all 0	317 429 72 37 320 429 59 369 428 101 328 429 20	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid	1 all 0 0.816326530612245 1 all 0 1 all 0 1 all 0 1	317 429 72 37 320 429 59 369 428 101 328 429 20 408	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7 95.3
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid T3DP18Cleanwater	1 all 0 0.816326530612245 1 all 0 1 all 0 1 all 0 1 all	317 429 72 37 320 429 59 369 428 101 328 429 20 408 428	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7 95.3 100.0
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid	1 all 0 0.816326530612245 1 all 0 1 all 0 1 all 0 1 all 0 1 all	317 429 72 37 320 429 59 369 428 101 328 429 20 408 428	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7 95.3 100.0 5.6
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid T3DP18Cleanwater	1 all 0 0.816326530612245 1 all 0 1 all 0 1 all 0 1 all 0 1 1 all 0 1	317 429 72 37 320 429 59 369 428 101 328 429 20 408 428	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7 95.3 100.0 5.6 94.4
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid T3DP18Cleanwater T3DP19Disinfect	1 all 0 0.816326530612245 1 all 0 1 all 0 1 all 0 1 all 0 1 all 1 all	317 429 72 37 320 429 59 369 428 101 328 429 20 408 428 24 404 428	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7 95.3 100.0 5.6 94.4 100.0
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid T3DP18Cleanwater	1 all 0 0.816326530612245 1 all 0 1	317 429 72 37 320 429 59 369 428 101 328 429 20 408 428 24 404 428 2	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7 95.3 100.0 5.6 94.4 100.0 0.5
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid T3DP18Cleanwater T3DP19Disinfect	1 all 0 0.816326530612245 1 all 0 1	317 429 72 37 320 429 59 369 428 101 328 429 20 408 428 24 404 428 2 426	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7 95.3 100.0 5.6 94.4 100.0 0.5 99.5
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid T3DP18Cleanwater T3DP19Disinfect T3DP20Sanitation	1 all 0 0.816326530612245 1 all 0 1 all	317 429 72 37 320 429 59 369 428 101 328 429 20 408 428 24 404 428 2 426 428	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7 95.3 100.0 5.6 94.4 100.0 0.5 99.5
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid T3DP18Cleanwater T3DP19Disinfect	1 all 0 0.816326530612245 1 all 0 1	317 429 72 37 320 429 59 369 428 101 328 429 20 408 428 24 404 428 2 426	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7 95.3 100.0 5.6 94.4 100.0 0.5 99.5 100.0 1.4
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid T3DP18Cleanwater T3DP19Disinfect T3DP20Sanitation	1 all 0 0.816326530612245 1 all 0 0	317 429 72 37 320 429 59 369 428 101 328 429 20 408 428 24 404 428 2 426 428 6	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7 95.3 100.0 5.6 94.4 100.0 0.5 99.5
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid T3DP18Cleanwater T3DP19Disinfect T3DP20Sanitation T3DP21Safeplacewaterrise	1 all 0 0.816326530612245 1 all 0 1 all	317 429 72 37 320 429 59 369 428 101 328 429 20 408 428 24 404 428 2 426 428 6 423 429	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7 95.3 100.0 5.6 94.4 100.0 0.5 99.5 100.0 1.4 98.6 100.0
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid T3DP18Cleanwater T3DP19Disinfect T3DP20Sanitation	1 all 0 0.816326530612245 1 all 0 1 1 all 0 1 1 all 0 1 1	317 429 72 37 320 429 59 369 428 101 328 429 20 408 428 24 404 428 2 426 423	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7 95.3 100.0 5.6 94.4 100.0 0.5 99.5 100.0 1.4 98.6
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid T3DP18Cleanwater T3DP19Disinfect T3DP20Sanitation T3DP21Safeplacewaterrise	1 all 0 0.816326530612245 1 all 0 1	317 429 72 37 320 429 59 369 428 101 328 429 20 408 428 24 404 428 2 426 428 6 423 429	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7 95.3 100.0 5.6 94.4 100.0 0.5 99.5 100.0 1.4 98.6 100.0 9.8
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid T3DP18Cleanwater T3DP19Disinfect T3DP20Sanitation T3DP21Safeplacewaterrise	1 all 0 0.816326530612245 1 all 0 1 1	317 429 72 37 320 429 59 369 428 101 328 429 20 408 428 24 404 428 2 426 428 6 423 429 429 429	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7 95.3 100.0 5.6 94.4 100.0 0.5 99.5 100.0 1.4 98.6 100.0 9.8 90.2
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid T3DP18Cleanwater T3DP19Disinfect T3DP20Sanitation T3DP21Safeplacewaterrise T3DP22SafeplaceEQ	1 all 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	317 429 72 37 320 429 59 369 428 101 328 429 20 408 428 24 404 428 6 428 6 423 429 428 5 429 428 5 428 5 428 6 428 5 428 6 428 5 428 6 6 6 6 6 6 6 6 6 6 6 6 6	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7 95.3 100.0 5.6 94.4 100.0 0.5 99.5 100.0 1.4 98.6 100.0 9.8 90.2 100.0
T3DP15Talktochildren T3DP16RadioTVcomp T3DP17Firstaid T3DP18Cleanwater T3DP19Disinfect T3DP20Sanitation T3DP21Safeplacewaterrise T3DP22SafeplaceEQ	1 all 0 0.816326530612245 1 all 0 1	317 429 72 37 320 429 59 369 428 101 328 429 20 408 428 24 404 428 6 428 6 423 429 428 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6	73.9 100.0 16.8 8.6 74.6 100.0 13.8 86.2 100.0 23.5 76.5 100.0 4.7 95.3 100.0 5.6 94.4 100.0 0.5 99.5 100.0 1.4 98.6 100.0 9.8 90.2 100.0 1.2

1	420	97.9
all	429	100.0

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

tableNominal(vars = as.data.frame(dplyr::select(T1_DP_vars, -T1loccode)), group = T1_DP_vars\$T1loccode,

% latex table generated in R 3.4.3 by x table 1.8-2 package % Mon Mar 05 15:51:55 2018

Variable	Levels	\mathbf{n}_1	$\%_1$	\mathbf{n}_2	$\%_2$	\mathbf{n}_3	$\%_3$	$\mathbf{n}_{\mathrm{all}}$	$\%_{\mathrm{all}}$
T1DP1Supplykit	0	6	3.7	5	3.1	10	6.3	21	4.4
	0.954446854663774	10	6.2	5	3.1	4	2.5	19	4.0
-	all	145 161	90.1	150 160	93.8	144 158	91.1	440	$\frac{91.7}{100.0}$
T1DP2Itemsinhouse	0	20	12.4	1	0.6	10	6.3	31	6.5
1 1D1 21temsimouse	1	141	87.6	158	99.4	148	93.7	448	93.5
	all	161	100.0	159	100.0	158	100.0	479	100.0
T1DP3Meds	0	22	13.7	15	9.4	21	13.3	59	12.3
	0.822289156626506	60	37.3	48	30.0	40	25.3	148	30.8
	1	79	49.1	97	60.6	97	61.4	273	56.9
	all	161	100.0	160	100.0	158	100.0	480	100.0
T1DP4Foodpeople	0	14	8.8	1	0.6	9	5.7	24	5.0
	all	146	91.2	158 159	99.4	149 158	94.3	454 478	95.0
TIPPER 1 : 1		160	100.0		100.0		100.0		100.0
T1DP5Foodanimals	0 022622212524071	24	14.9	2	1.2	4 12	$\frac{2.5}{7.6}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	6.2
	0.933628318584071 1	128	$5.6 \\ 79.5$	7 151	$4.4 \\ 94.4$	142	$7.6 \\ 89.9$	$\frac{28}{422}$	$\frac{5.8}{87.9}$
	all	161	100.0	160	100.0	158	100.0	480	100.0
T1DP6Docs	0	0	0.0	0	0.0	1	0.6	1	0.2
11D1 0D0cs	1	159	100.0	160	100.0	157	99.4	477	99.8
	all	159	100.0	160	100.0	158	100.0	478	100.0
T1DP7Firewood	0	6	3.8	0	0.0	3	1.9	9	1.9
TIDI (Thewood	1	154	96.2	159	100.0	155	98.1	469	98.1
_	all	160	100.0	159	100.0	158	100.0	478	100.0
T1DP8Secureddwelling	0	13	8.1	10	6.2	16	10.3	39	8.2
3	1	148	91.9	150	93.8	140	89.7	439	91.8
	all	161	100.0	160	100.0	156	100.0	478	100.0
T1DP9Raiseitems	0	0	0.0	3	1.9	0	0.0	3	0.6
	1	161	100.0	156	98.1	158	100.0	476	99.4
	all	161	100.0	159	100.0	158	100.0	479	100.0
T1DP10Divertwater	0	34	21.4	47	29.6	41	26.1	122	25.6
	1	125	78.6	112	70.4	116	73.9	354	74.4
TIDDIID II : I:	all	159	100.0	159	100.0	157	100.0	476	100.0
T1DP11Removeblowingobj	0 1	12 146	$7.6 \\ 92.4$	13 146	$8.2 \\ 91.8$	5 153	$\frac{3.2}{96.8}$	30 446	$6.3 \\ 93.7$
	all	158	100.0	159	100.0	158	100.0	476	100.0
T1DP12Famemergplan	0	5	3.1	5	3.1	10	6.3	20	4.2
	1	156	96.9	155	96.9	148	93.7	460	95.8
	all	161	100.0	160	100.0	158	100.0	480	100.0
T1DP13Evacplan	0	11	6.8	3	1.9	4	2.5	18	3.8
	1	150	93.2	157	98.1	154	97.5	462	96.2
	all	161	100.0	160	100.0	158	100.0	480	100.0
T1DP14Reconnectfamplan	0	43	27.2	41	25.6	46	29.1	130	27.2
	1	115	72.8	119	74.4	112	70.9	347	72.8
	all	158	100.0	160	100.0	158	100.0	477	100.0
T1DP15Talktochildren	0	15	9.4	14	8.8	15	9.5	44	9.2
	0.902004454342984	6	3.8	124	7.5	12	7.6	30	6.3
	1	139	86.9	134	83.8	131	82.9	405	84.5
TIDDICD. I: TV	all	160	100.0	160	100.0	158	100.0	479	100.0
T1DP16RadioTVcomp	0 1	12 149	$7.4 \\ 92.5$	13 147	8.1 91.9	$10 \\ 147$	$6.4 \\ 93.6$	35 444	$7.3 \\ 92.7$
	all	161	100.0	160	100.0	157	100.0	444	100.0
	W11	101	100.0	100	100.0	101	100.0	110	100.0

T1DP17Firstaid	0	90	56.2	94	58.8	83	52.5	267	55.7
	1	70	43.8	66	41.2	75	47.5	212	44.3
	all	160	100.0	160	100.0	158	100.0	479	100.0
T1DP18Cleanwater	0	29	18.0	18	11.2	32	20.2	79	16.5
	1	132	82.0	142	88.8	126	79.8	401	83.5
	all	161	100.0	160	100.0	158	100.0	480	100.0
T1DP19Disinfect	0	33	20.5	28	17.5	23	14.7	84	17.6
	1	128	79.5	132	82.5	133	85.3	394	82.4
	all	161	100.0	160	100.0	156	100.0	478	100.0
T1DP20Sanitation	0	2	1.3	16	10.1	5	3.2	23	4.8
	1	156	98.7	143	89.9	153	96.8	453	95.2
	all	158	100.0	159	100.0	158	100.0	476	100.0
T1DP21Safeplacewaterrise	0	6	3.8	2	1.2	2	1.3	10	2.1
	1	153	96.2	158	98.8	153	98.7	465	97.9
	all	159	100.0	160	100.0	155	100.0	475	100.0
T1DP22SafeplaceEQ	0	68	43.3	52	32.9	63	40.1	183	38.7
	1	89	56.7	106	67.1	94	59.9	290	61.3
	all	157	100.0	158	100.0	157	100.0	473	100.0
T1DP23Riskysafeplacemap	0	5	3.1	1	0.6	2	1.3	8	1.7
	1	156	96.9	159	99.4	155	98.7	471	98.3
	all	161	100.0	160	100.0	157	100.0	479	100.0
T1DP24Helpneighbors	0	6	3.8	1	0.6	4	2.5	11	2.3
	1	154	96.2	159	99.4	154	97.5	468	97.7
	all	160	100.0	160	100.0	158	100.0	479	100.0
T 11 4 D	· · · · · · · · · · · · · · · · · · ·			1 1	. ,.	-1			

Table 4: Descriptive statistics of disaster preparation behaviors time 1 questions by community

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)
## Warning in psych::alpha(x = T1_DP_vars, cumulative = TRUE): Some items were negatively correlated wi
## should be reversed.
## To do this, run the function again with the 'check.keys=TRUE' option
## Some items ( T1DP23Riskysafeplacemap ) were negatively correlated with the total scale and
## probably should be reversed.
## To do this, run the function again with the 'check.keys=TRUE' option
## Reliability analysis
## Call: psych::alpha(x = T1_DP_vars, cumulative = TRUE)
##
     raw_alpha std.alpha G6(smc) average_r S/N
##
                                     0.08 2.2 0.022
##
         0.66
                   0.69
                           0.73
                                                       23 2.7
##
##
   lower alpha upper
                          95% confidence boundaries
## 0.61 0.66 0.7
##
##
   Reliability if an item is dropped:
##
                            raw_alpha std.alpha G6(smc) average_r S/N
## T1DP1Supplykit
                                 0.66
                                           0.69
                                                    0.74
                                                             0.086 2.3
## T1DP2Itemsinhouse
                                 0.64
                                           0.67
                                                    0.72
                                                             0.078 2.0
## T1DP3Meds
                                 0.64
                                           0.68
                                                    0.72
                                                             0.081 2.1
## T1DP4Foodpeople
                                 0.65
                                           0.68
                                                    0.73
                                                             0.081 2.1
```

0.67

0.72

0.077 2.0

0.64

T1DP5Foodanimals

```
0.74
## T1DP6Docs
                                  0.66
                                            0.69
                                                              0.086 2.3
## T1DP7Firewood
                                  0.65
                                            0.68
                                                     0.72
                                                              0.080 2.1
## T1DP8Secureddwelling
                                  0.65
                                            0.67
                                                     0.72
                                                              0.079 2.1
## T1DP9Raiseitems
                                  0.66
                                            0.69
                                                     0.73
                                                              0.084 2.2
## T1DP10Divertwater
                                  0.64
                                            0.67
                                                     0.72
                                                              0.080 2.1
## T1DP11Removeblowingobj
                                            0.68
                                                     0.72
                                                              0.080 2.1
                                  0.64
## T1DP12Famemergplan
                                                              0.080 2.1
                                  0.65
                                            0.68
                                                     0.72
                                                              0.079 2.1
                                                     0.72
## T1DP13Evacplan
                                  0.65
                                            0.67
## T1DP14Reconnectfamplan
                                  0.61
                                            0.65
                                                     0.70
                                                              0.073 1.9
## T1DP15Talktochildren
                                  0.65
                                            0.68
                                                     0.73
                                                              0.082 2.1
## T1DP16RadioTVcomp
                                  0.64
                                            0.68
                                                     0.72
                                                              0.080 2.1
                                                              0.077 2.0
## T1DP17Firstaid
                                            0.67
                                                     0.71
                                  0.63
## T1DP18Cleanwater
                                  0.63
                                            0.67
                                                     0.71
                                                              0.077 2.0
                                            0.66
                                                              0.074 1.9
## T1DP19Disinfect
                                  0.62
                                                     0.70
## T1DP20Sanitation
                                  0.64
                                            0.67
                                                     0.71
                                                              0.079 2.0
## T1DP21Safeplacewaterrise
                                  0.65
                                            0.69
                                                     0.73
                                                              0.083 2.2
                                            0.67
                                                     0.72
                                                              0.079 2.1
## T1DP22SafeplaceEQ
                                  0.64
## T1DP23Riskysafeplacemap
                                  0.66
                                            0.70
                                                     0.74
                                                              0.088 2.3
## T1DP24Helpneighbors
                                  0.65
                                            0.68
                                                     0.72
                                                              0.080 2.1
## T1loccode
                                  0.71
                                            0.69
                                                     0.73
                                                              0.085 2.2
##
                             alpha se
## T1DP1Supplykit
                                0.022
## T1DP2Itemsinhouse
                                0.023
## T1DP3Meds
                                0.023
## T1DP4Foodpeople
                                0.022
## T1DP5Foodanimals
                                0.023
## T1DP6Docs
                                0.022
## T1DP7Firewood
                                0.022
## T1DP8Secureddwelling
                                0.022
## T1DP9Raiseitems
                                0.022
## T1DP10Divertwater
                                0.022
## T1DP11Removeblowingobj
                                0.023
## T1DP12Famemergplan
                                0.022
                                0.022
## T1DP13Evacplan
## T1DP14Reconnectfamplan
                                0.025
## T1DP15Talktochildren
                                0.022
## T1DP16RadioTVcomp
                                0.023
## T1DP17Firstaid
                                0.024
## T1DP18Cleanwater
                                0.023
## T1DP19Disinfect
                                0.025
## T1DP20Sanitation
                                0.023
## T1DP21Safeplacewaterrise
                                0.022
## T1DP22SafeplaceEQ
                                0.023
## T1DP23Riskysafeplacemap
                                0.022
## T1DP24Helpneighbors
                                0.022
## T1loccode
                                0.017
##
##
    Item statistics
##
                               n raw.r std.r
                                               r.cor r.drop mean
## T1DP1Supplykit
                             480 0.083 0.15
                                              0.0492 0.0098 0.95 0.205
## T1DP2Itemsinhouse
                                       0.42 0.3840 0.2861 0.94 0.246
                             479 0.367
## T1DP3Meds
                             480 0.363 0.34 0.2791 0.2592 0.82 0.318
## T1DP4Foodpeople
                             478 0.266 0.31 0.2433 0.1924 0.95 0.219
## T1DP5Foodanimals
                             480 0.419 0.44 0.4055 0.3399 0.93 0.242
```

```
478 0.021 0.14 0.0548 0.0055 1.00 0.046
## T1DP6Docs
## T1DP7Firewood
                            478 0.251 0.36
                                            0.3184 0.1965 0.98 0.136
                                       0.37
                                            0.3229 0.2377 0.92 0.274
## T1DP8Secureddwelling
                            478 0.328
                            479 0.156 0.23 0.1572 0.1309 0.99 0.079
## T1DP9Raiseitems
## T1DP10Divertwater
                            476 0.389
                                       0.37
                                            0.3242 0.2500 0.74 0.437
## T1DP11Removeblowingobj
                            476 0.359
                                       0.36 0.3183 0.2829 0.94 0.243
## T1DP12Famemergplan
                            480 0.299
                                       0.36 0.3245 0.2153 0.96 0.200
                                       0.38 0.3497 0.2619 0.96 0.190
## T1DP13Evacplan
                            480 0.335
## T1DP14Reconnectfamplan
                            477 0.592
                                       0.58
                                             0.5922 0.4778 0.73 0.446
                                       0.29
                                             0.2198 0.1491 0.90 0.288
## T1DP15Talktochildren
                            479 0.257
## T1DP16RadioTVcomp
                            479 0.342
                                       0.34 0.2853 0.2578 0.93 0.261
## T1DP17Firstaid
                            479 0.520
                                       0.46 0.4289 0.3698 0.44 0.497
## T1DP18Cleanwater
                            480 0.471
                                       0.47
                                             0.4461 0.3594 0.84 0.371
                            478 0.593
                                       0.55 0.5683 0.4910 0.82 0.381
## T1DP19Disinfect
                            476 0.374
                                       0.40 0.3835 0.3101 0.95 0.215
## T1DP20Sanitation
## T1DP21Safeplacewaterrise 475 0.193
                                       0.24 0.1567 0.1465 0.98 0.144
                            473 0.431
                                       ## T1DP22SafeplaceEQ
## T1DP23Riskysafeplacemap 479 0.072
                                       0.11 -0.0053 0.0073 0.98 0.128
## T1DP24Helpneighbors
                            479 0.267 0.34 0.2864 0.2109 0.98 0.150
## T1loccode
                            479 0.367 0.19 0.0946 0.0561 1.99 0.817
##
## Non missing response frequency for each item
                               0 0.822289156626506 0.902004454342984
##
## T1DP1Supplykit
                            0.04
                                              0.00
                            0.06
## T1DP2Itemsinhouse
                                                                0.00
                                              0.00
## T1DP3Meds
                            0.12
                                              0.31
                                                                0.00
## T1DP4Foodpeople
                            0.05
                                              0.00
                                                                0.00
## T1DP5Foodanimals
                            0.06
                                              0.00
                                                                0.00
## T1DP6Docs
                            0.00
                                              0.00
                                                                0.00
## T1DP7Firewood
                            0.02
                                              0.00
                                                                0.00
## T1DP8Secureddwelling
                            0.08
                                              0.00
                                                                0.00
## T1DP9Raiseitems
                            0.01
                                              0.00
                                                                0.00
## T1DP10Divertwater
                            0.26
                                              0.00
                                                                0.00
                                              0.00
                                                                0.00
## T1DP11Removeblowingobj
                            0.06
## T1DP12Famemergplan
                            0.04
                                              0.00
                                                                0.00
## T1DP13Evacplan
                            0.04
                                              0.00
                                                                0.00
## T1DP14Reconnectfamplan
                            0.27
                                              0.00
                                                                0.00
## T1DP15Talktochildren
                            0.09
                                              0.00
                                                                0.06
## T1DP16RadioTVcomp
                            0.07
                                              0.00
                                                                0.00
## T1DP17Firstaid
                            0.56
                                              0.00
                                                                0.00
## T1DP18Cleanwater
                                              0.00
                            0.16
                                                                0.00
## T1DP19Disinfect
                            0.18
                                              0.00
                                                                0.00
## T1DP20Sanitation
                            0.05
                                              0.00
                                                                0.00
## T1DP21Safeplacewaterrise 0.02
                                              0.00
                                                                0.00
## T1DP22SafeplaceEQ
                            0.39
                                              0.00
                                                                0.00
## T1DP23Riskysafeplacemap
                            0.02
                                              0.00
                                                                0.00
## T1DP24Helpneighbors
                            0.02
                                              0.00
                                                                0.00
## T1loccode
                            0.00
                                              0.00
                                                                0.00
                            0.933628318584071 0.954446854663774
                                                                   1
## T1DP1Supplykit
                                         0.00
                                                           0.04 0.92 0.00
## T1DP2Itemsinhouse
                                         0.00
                                                           0.00 0.94 0.00
## T1DP3Meds
                                         0.00
                                                           0.00 0.57 0.00
## T1DP4Foodpeople
                                         0.00
                                                           0.00 0.95 0.00
## T1DP5Foodanimals
                                         0.06
                                                           0.00 0.88 0.00
```

```
0.00 1.00 0.00
## T1DP6Docs
                                        0.00
## T1DP7Firewood
                                        0.00
                                                          0.00 0.98 0.00
## T1DP8Secureddwelling
                                        0.00
                                                          0.00 0.92 0.00
                                                          0.00 0.99 0.00
## T1DP9Raiseitems
                                        0.00
## T1DP10Divertwater
                                        0.00
                                                          0.00 0.74 0.00
## T1DP11Removeblowingobj
                                        0.00
                                                          0.00 0.94 0.00
## T1DP12Famemergplan
                                                          0.00 0.96 0.00
                                        0.00
                                                          0.00 0.96 0.00
## T1DP13Evacplan
                                        0.00
## T1DP14Reconnectfamplan
                                        0.00
                                                          0.00 0.73 0.00
## T1DP15Talktochildren
                                        0.00
                                                          0.00 0.85 0.00
## T1DP16RadioTVcomp
                                        0.00
                                                          0.00 0.93 0.00
## T1DP17Firstaid
                                        0.00
                                                          0.00 0.44 0.00
## T1DP18Cleanwater
                                        0.00
                                                          0.00 0.84 0.00
## T1DP19Disinfect
                                        0.00
                                                          0.00 0.82 0.00
## T1DP20Sanitation
                                        0.00
                                                          0.00 0.95 0.00
## T1DP21Safeplacewaterrise
                                        0.00
                                                          0.00 0.98 0.00
                                        0.00
                                                          0.00 0.61 0.00
## T1DP22SafeplaceEQ
## T1DP23Riskysafeplacemap
                                        0.00
                                                         0.00 0.98 0.00
## T1DP24Helpneighbors
                                        0.00
                                                         0.00 0.98 0.00
## T1loccode
                                        0.00
                                                          0.00 0.34 0.33
##
                              3 miss
## T1DP1Supplykit
                           0.00 0.00
## T1DP2Itemsinhouse
                           0.00 0.00
## T1DP3Meds
                           0.00 0.00
## T1DP4Foodpeople
                           0.00 0.00
## T1DP5Foodanimals
                           0.00 0.00
## T1DP6Docs
                           0.00 0.00
## T1DP7Firewood
                           0.00 0.00
## T1DP8Secureddwelling
                         0.00 0.00
## T1DP9Raiseitems
                           0.00 0.00
## T1DP10Divertwater
                           0.00 0.01
## T1DP11Removeblowingobj
                           0.00 0.01
## T1DP12Famemergplan
                           0.00 0.00
## T1DP13Evacplan
                           0.00 0.00
## T1DP14Reconnectfamplan 0.00 0.01
## T1DP15Talktochildren
                           0.00 0.00
## T1DP16RadioTVcomp
                           0.00 0.00
## T1DP17Firstaid
                           0.00 0.00
## T1DP18Cleanwater
                           0.00 0.00
## T1DP19Disinfect
                           0.00 0.00
## T1DP20Sanitation
                           0.00 0.01
## T1DP21Safeplacewaterrise 0.00 0.01
## T1DP22SafeplaceEQ
                           0.00 0.01
## T1DP23Riskysafeplacemap 0.00 0.00
## T1DP24Helpneighbors
                           0.00 0.00
## T1loccode
                           0.33 0.00
psych::alpha(x = T2_DP_vars, cumulative = TRUE)
## Warning in psych::alpha(x = T2_DP_vars, cumulative = TRUE): Item =
## T2DP6Docs had no variance and was deleted
## Reliability analysis
## Call: psych::alpha(x = T2_DP_vars, cumulative = TRUE)
```

```
##
##
     raw_alpha std.alpha G6(smc) average_r S/N
                                                   ase mean sd
         0.75
                                      0.12 3.2 0.015
##
                   0.76
                             0.8
##
##
    lower alpha upper
                           95% confidence boundaries
## 0.72 0.75 0.78
##
   Reliability if an item is dropped:
##
                             raw_alpha std.alpha G6(smc) average_r S/N
## T2DP1Supplykit
                                  0.76
                                            0.76
                                                     0.80
                                                               0.13 3.2
## T2DP2Itemsinhouse
                                  0.74
                                             0.75
                                                     0.78
                                                               0.12 2.9
                                  0.75
                                                     0.79
                                                               0.12 3.1
## T2DP3Meds
                                            0.76
## T2DP4Foodpeople
                                  0.74
                                            0.74
                                                     0.78
                                                               0.12 2.9
## T2DP5Foodanimals
                                                     0.79
                                                               0.12 3.0
                                  0.75
                                            0.75
## T2DP7Firewood
                                  0.75
                                            0.76
                                                     0.79
                                                               0.12 3.1
## T2DP8Secureddwelling
                                  0.74
                                            0.74
                                                     0.78
                                                               0.12 2.9
## T2DP9Raiseitems
                                  0.74
                                            0.75
                                                     0.78
                                                               0.12 2.9
## T2DP10Divertwater
                                  0.75
                                            0.75
                                                     0.79
                                                               0.12 3.1
## T2DP11Removeblowingobj
                                  0.75
                                            0.76
                                                     0.79
                                                               0.13 3.1
## T2DP12Famemergplan
                                  0.75
                                            0.75
                                                     0.79
                                                               0.12 3.1
## T2DP13Evacplan
                                  0.73
                                            0.74
                                                     0.77
                                                               0.11 2.8
## T2DP14Reconnectfamplan
                                  0.72
                                            0.74
                                                     0.78
                                                               0.11 2.8
                                                     0.78
                                                               0.12 2.9
## T2DP15Talktochildren
                                  0.74
                                            0.74
## T2DP16RadioTVcomp
                                  0.75
                                            0.76
                                                     0.79
                                                               0.12 3.1
## T2DP17Firstaid
                                                     0.78
                                                               0.12 2.9
                                  0.74
                                            0.75
## T2DP18Cleanwater
                                  0.75
                                            0.75
                                                     0.79
                                                               0.12 3.1
## T2DP19Disinfect
                                  0.74
                                            0.75
                                                     0.79
                                                               0.12 3.0
## T2DP20Sanitation
                                            0.76
                                                     0.79
                                                               0.12 3.1
                                  0.75
## T2DP21Safeplacewaterrise
                                  0.75
                                            0.76
                                                     0.80
                                                               0.13 3.3
## T2DP22SafeplaceEQ
                                  0.75
                                            0.76
                                                     0.79
                                                               0.12 3.1
## T2DP23Riskysafeplacemap
                                  0.75
                                            0.76
                                                     0.79
                                                               0.13 3.2
## T2DP24Helpneighbors
                                  0.74
                                            0.74
                                                     0.78
                                                               0.12 2.9
##
                             alpha se
## T2DP1Supplykit
                                0.015
## T2DP2Itemsinhouse
                                0.016
## T2DP3Meds
                                0.016
## T2DP4Foodpeople
                                0.016
## T2DP5Foodanimals
                                0.016
## T2DP7Firewood
                                0.016
## T2DP8Secureddwelling
                                0.017
## T2DP9Raiseitems
                                0.016
## T2DP10Divertwater
                                0.016
## T2DP11Removeblowingobj
                                0.016
## T2DP12Famemergplan
                                0.015
## T2DP13Evacplan
                                0.017
## T2DP14Reconnectfamplan
                                0.018
## T2DP15Talktochildren
                                0.016
## T2DP16RadioTVcomp
                                0.016
## T2DP17Firstaid
                                0.016
## T2DP18Cleanwater
                                0.016
## T2DP19Disinfect
                                0.016
## T2DP20Sanitation
                                0.016
## T2DP21Safeplacewaterrise
                                0.015
## T2DP22SafeplaceEQ
                                0.016
```

```
## T2DP23Riskysafeplacemap
                                0.015
## T2DP24Helpneighbors
                                0.016
##
##
    Item statistics
##
                               n raw.r std.r r.cor r.drop mean
                                             0.15
                                                    0.100 0.85 0.355
## T2DP1Supplykit
                             406
                                 0.23
                                       0.23
## T2DP2Itemsinhouse
                                 0.45
                                        0.47
                                              0.45
                                                    0.391 0.96 0.206
## T2DP3Meds
                                 0.29
                                        0.31
                                             0.24
                                                    0.222 0.94 0.186
                             406
## T2DP4Foodpeople
                             406
                                  0.54
                                        0.54
                                              0.54
                                                    0.463 0.93 0.262
## T2DP5Foodanimals
                             406
                                  0.36
                                        0.39
                                              0.35
                                                    0.269 0.92 0.261
## T2DP7Firewood
                             406
                                  0.27
                                        0.32
                                              0.26
                                                    0.217 0.98 0.139
## T2DP8Secureddwelling
                             406
                                  0.53
                                        0.52
                                              0.49
                                                    0.427 0.86 0.348
## T2DP9Raiseitems
                             406
                                  0.45
                                        0.47
                                              0.44
                                                    0.392 0.96 0.189
                                  0.40
                                        0.36
                                             0.31
## T2DP10Divertwater
                             406
                                                    0.263 0.76 0.427
## T2DP11Removeblowingobj
                             406
                                  0.25
                                        0.29
                                              0.23
                                                    0.205 0.98 0.130
## T2DP12Famemergplan
                             406
                                  0.40
                                        0.37
                                              0.32
                                                    0.255 0.74 0.441
                             406
                                  0.62
                                        0.59
                                              0.60
                                                    0.541 0.90 0.302
## T2DP13Evacplan
## T2DP14Reconnectfamplan
                             406
                                  0.64
                                        0.57
                                              0.57
                                                    0.531 0.71 0.453
## T2DP15Talktochildren
                             406
                                  0.51
                                        0.50
                                             0.48 0.413 0.88 0.310
## T2DP16RadioTVcomp
                             406
                                  0.39
                                        0.35
                                             0.29
                                                    0.269 0.85 0.358
## T2DP17Firstaid
                             406
                                  0.55
                                        0.48
                                             0.45
                                                    0.401 0.59 0.493
## T2DP18Cleanwater
                             404
                                  0.36
                                        0.36
                                             0.30
                                                    0.273 0.92 0.266
## T2DP19Disinfect
                             406
                                 0.42
                                        0.43
                                             0.39
                                                    0.308 0.87 0.340
## T2DP20Sanitation
                             406
                                  0.22
                                        0.31
                                              0.27
                                                    0.173 0.99 0.121
                                              0.13
## T2DP21Safeplacewaterrise 405
                                        0.20
                                                    0.073 0.99 0.121
                                  0.12
## T2DP22SafeplaceEQ
                             404
                                  0.36
                                        0.33
                                              0.28
                                                    0.251 0.87 0.333
## T2DP23Riskysafeplacemap
                             405
                                  0.15
                                        0.25
                                              0.19
                                                    0.110 0.99 0.099
## T2DP24Helpneighbors
                                  0.48
                                        0.50
                                             0.47 0.418 0.96 0.206
                             406
##
## Non missing response frequency for each item
##
                                0 0.881720430107527 0.922077922077922
## T2DP1Supplykit
                             0.15
                                               0.00
                                                                  0.00
## T2DP2Itemsinhouse
                             0.04
                                               0.00
                                                                  0.00
## T2DP3Meds
                             0.04
                                               0.00
                                                                  0.00
## T2DP4Foodpeople
                             0.07
                                               0.00
                                                                  0.00
## T2DP5Foodanimals
                             0.07
                                               0.00
                                                                  0.05
## T2DP7Firewood
                             0.02
                                               0.00
                                                                  0.00
## T2DP8Secureddwelling
                             0.14
                                               0.00
                                                                  0.00
## T2DP9Raiseitems
                             0.04
                                               0.00
                                                                  0.00
## T2DP10Divertwater
                             0.24
                                               0.00
                                                                  0.00
## T2DP11Removeblowingobj
                                               0.00
                             0.02
                                                                  0.00
## T2DP12Famemergplan
                             0.26
                                               0.00
                                                                  0.00
## T2DP13Evacplan
                             0.10
                                               0.00
                                                                  0.00
## T2DP14Reconnectfamplan
                             0.29
                                               0.00
                                                                  0.00
## T2DP15Talktochildren
                             0.11
                                               0.08
                                                                  0.00
## T2DP16RadioTVcomp
                             0.15
                                               0.00
                                                                  0.00
## T2DP17Firstaid
                             0.41
                                               0.00
                                                                  0.00
## T2DP18Cleanwater
                             0.08
                                               0.00
                                                                  0.00
## T2DP19Disinfect
                             0.13
                                               0.00
                                                                  0.00
## T2DP20Sanitation
                             0.01
                                               0.00
                                                                  0.00
## T2DP21Safeplacewaterrise 0.01
                                               0.00
                                                                  0.00
## T2DP22SafeplaceEQ
                             0.13
                                               0.00
                                                                  0.00
## T2DP23Riskysafeplacemap
                             0.01
                                               0.00
                                                                  0.00
## T2DP24Helpneighbors
                             0.04
                                               0.00
                                                                  0.00
```

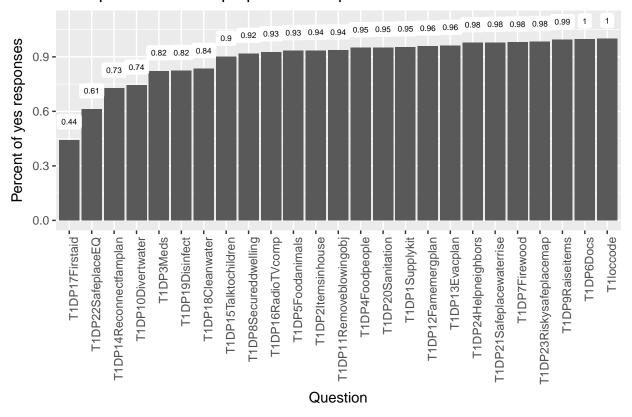
```
##
                            0.935897435897436
## T2DP1Supplykit
                                        0.00 0.85 0.15
                                        0.00 0.96 0.15
## T2DP2Itemsinhouse
## T2DP3Meds
                                        0.42 0.54 0.15
## T2DP4Foodpeople
                                        0.00 0.93 0.15
## T2DP5Foodanimals
                                        0.00 0.87 0.15
## T2DP7Firewood
                                       0.00 0.98 0.15
                                       0.00 0.86 0.15
## T2DP8Secureddwelling
## T2DP9Raiseitems
                                       0.00 0.96 0.15
## T2DP10Divertwater
                                       0.00 0.76 0.15
## T2DP11Removeblowingobj
                                       0.00 0.98 0.15
## T2DP12Famemergplan
                                        0.00 0.74 0.15
## T2DP13Evacplan
                                        0.00 0.90 0.15
## T2DP14Reconnectfamplan
                                       0.00 0.71 0.15
## T2DP15Talktochildren
                                       0.00 0.81 0.15
                                       0.00 0.85 0.15
## T2DP16RadioTVcomp
                                       0.00 0.59 0.15
## T2DP17Firstaid
## T2DP18Cleanwater
                                       0.00 0.92 0.16
## T2DP19Disinfect
                                       0.00 0.87 0.15
## T2DP20Sanitation
                                        0.00 0.99 0.15
## T2DP21Safeplacewaterrise
                                        0.00 0.99 0.16
## T2DP22SafeplaceEQ
                                        0.00 0.87 0.16
## T2DP23Riskysafeplacemap
                                        0.00 0.99 0.16
## T2DP24Helpneighbors
                                        0.00 0.96 0.15
psych::alpha(x = T3_DP_vars, cumulative = TRUE)
## Warning in psych::alpha(x = T3_DP_vars, cumulative = TRUE): Some items were negatively correlated wi
## should be reversed.
## To do this, run the function again with the 'check.keys=TRUE' option
## Some items ( T3DP3Meds T3DP6Docs ) were negatively correlated with the total scale and
## probably should be reversed.
## To do this, run the function again with the 'check.keys=TRUE' option
## Reliability analysis
## Call: psych::alpha(x = T3_DP_vars, cumulative = TRUE)
##
##
    raw_alpha std.alpha G6(smc) average_r S/N
                                                 ase mean sd
                                     0.12 3.3 0.012
##
                  0.76
                          0.81
##
## lower alpha upper
                         95% confidence boundaries
## 0.77 0.79 0.82
##
## Reliability if an item is dropped:
##
                           raw_alpha std.alpha G6(smc) average_r S/N
## T3DP1Supplykit
                                0.79
                                           0.76
                                                   0.80
                                                             0.12 3.2
## T3DP2Itemsinhouse
                                 0.79
                                           0.76
                                                   0.80
                                                             0.12 3.2
## T3DP3Meds
                                 0.79
                                           0.77
                                                   0.81
                                                             0.13 3.4
## T3DP4Foodpeople
                                 0.79
                                           0.76
                                                  0.80
                                                             0.12 3.2
## T3DP5Foodanimals
                                0.79
                                           0.76
                                                  0.80
                                                             0.12 3.2
## T3DP6Docs
                                0.79
                                           0.77
                                                  0.81
                                                             0.13 3.4
                                0.78
                                           0.75
                                                   0.79
## T3DP7Firewood
                                                             0.12 3.0
                                                  0.80
## T3DP8Secureddwelling
                                0.78
                                           0.75
                                                             0.12 3.0
## T3DP9Raiseitems
                                 0.79
                                           0.76
                                                  0.80
                                                             0.12 3.2
```

```
0.74
                                                    0.79
## T3DP10Divertwater
                                  0.77
                                                              0.11 2.9
## T3DP11Removeblowingobj
                                 0.79
                                            0.77
                                                    0.81
                                                              0.13 3.3
## T3DP12Famemergplan
                                  0.77
                                            0.75
                                                    0.79
                                                              0.11 2.9
                                                    0.79
                                                              0.11 2.9
## T3DP13Evacplan
                                 0.77
                                            0.74
## T3DP14Reconnectfamplan
                                  0.76
                                            0.74
                                                    0.78
                                                              0.11 2.9
## T3DP15Talktochildren
                                            0.75
                                                    0.79
                                                              0.12 3.0
                                 0.77
## T3DP16RadioTVcomp
                                            0.75
                                                    0.80
                                                              0.12 3.1
                                 0.78
                                            0.75
                                                    0.79
                                                              0.12 3.0
## T3DP17Firstaid
                                 0.78
## T3DP18Cleanwater
                                 0.78
                                            0.75
                                                    0.79
                                                              0.12 3.0
                                                    0.79
## T3DP19Disinfect
                                 0.78
                                            0.75
                                                              0.12 3.0
## T3DP20Sanitation
                                 0.79
                                            0.76
                                                    0.80
                                                              0.12 3.2
## T3DP21Safeplacewaterrise
                                  0.79
                                            0.76
                                                    0.80
                                                              0.12 3.2
## T3DP22SafeplaceEQ
                                  0.78
                                            0.75
                                                    0.80
                                                              0.12 3.1
                                                    0.80
## T3DP23Riskysafeplacemap
                                  0.79
                                            0.76
                                                              0.12 3.2
## T3DP24Helpneighbors
                                  0.79
                                            0.76
                                                    0.80
                                                              0.12 3.1
##
                            alpha se
## T3DP1Supplykit
                               0.012
## T3DP2Itemsinhouse
                               0.012
## T3DP3Meds
                               0.012
## T3DP4Foodpeople
                               0.012
## T3DP5Foodanimals
                               0.012
## T3DP6Docs
                               0.012
## T3DP7Firewood
                               0.012
## T3DP8Secureddwelling
                               0.012
## T3DP9Raiseitems
                               0.012
## T3DP10Divertwater
                               0.013
## T3DP11Removeblowingobj
                               0.012
## T3DP12Famemergplan
                               0.013
                               0.013
## T3DP13Evacplan
## T3DP14Reconnectfamplan
                               0.014
## T3DP15Talktochildren
                               0.013
## T3DP16RadioTVcomp
                               0.012
## T3DP17Firstaid
                               0.012
## T3DP18Cleanwater
                               0.012
## T3DP19Disinfect
                               0.012
## T3DP20Sanitation
                               0.012
## T3DP21Safeplacewaterrise
                               0.012
## T3DP22SafeplaceEQ
                               0.012
## T3DP23Riskysafeplacemap
                               0.012
## T3DP24Helpneighbors
                               0.012
##
##
   Item statistics
                              n raw.r std.r r.cor r.drop mean
## T3DP1Supplykit
                            429 0.4282 0.36 0.300 0.2858 0.71 0.453
## T3DP2Itemsinhouse
                            428 0.2764 0.33 0.277
                                                     0.2298 0.98 0.151
                            428 0.0423 0.11 0.015 0.0055 0.98 0.107
## T3DP3Meds
## T3DP4Foodpeople
                            428 0.2062 0.28 0.215
                                                     0.1486 0.98 0.144
## T3DP5Foodanimals
                            429 0.2509
                                        0.33 0.281
                                                     0.1951 0.98 0.143
## T3DP6Docs
                            429 0.0086
                                        0.12 0.030 -0.0079 1.00 0.048
## T3DP7Firewood
                            427 0.4676
                                        0.47 0.438
                                                    0.4025 0.95 0.221
                            429 0.5098
                                        0.45 0.417
                                                     0.3928 0.79 0.408
## T3DP8Secureddwelling
## T3DP9Raiseitems
                            428 0.2459 0.31 0.251 0.1914 0.98 0.136
## T3DP10Divertwater
                            429 0.6417 0.58 0.565 0.5351 0.71 0.454
## T3DP11Removeblowingobj
                            429 0.1690 0.23 0.151 0.1474 1.00 0.068
```

```
## T3DP12Famemergplan
                           429 0.6389 0.55 0.554 0.5293 0.71 0.454
                           428 0.6386 0.58 0.590 0.5590 0.85 0.362
## T3DP13Evacplan
## T3DP14Reconnectfamplan 429 0.7189 0.62 0.637 0.6328 0.74 0.440
## T3DP15Talktochildren
                           429 0.5950 0.50 0.486 0.5038 0.82 0.371
## T3DP16RadioTVcomp
                           428 0.4970 0.45 0.410 0.3851 0.86 0.345
## T3DP17Firstaid
                           429 0.5389 0.49 0.463 0.4196 0.76 0.425
## T3DP18Cleanwater
                           428 0.4078 0.45 0.433 0.3398 0.95 0.211
## T3DP19Disinfect
                           428 0.4049 0.46 0.433 0.3325 0.94 0.230
## T3DP20Sanitation
                           428 0.1614 0.30 0.245
                                                   0.1361 1.00 0.068
## T3DP21Safeplacewaterrise 429 0.2517 0.35 0.306 0.2154 0.99 0.118
## T3DP22SafeplaceEQ
                           428 0.4418 0.44 0.412 0.3553 0.90 0.298
## T3DP23Riskysafeplacemap 428 0.1964 0.31 0.259 0.1622 0.99 0.108
## T3DP24Helpneighbors
                           429 0.3033 0.39 0.345 0.2602 0.98 0.143
##
## Non missing response frequency for each item
##
                               0 0.816326530612245 0.977040816326531
## T3DP1Supplykit
                           0.29
                                             0.00
                                                                0.00
## T3DP2Itemsinhouse
                           0.02
                                              0.00
                                                                0.00
## T3DP3Meds
                           0.01
                                             0.00
                                                                0.00
## T3DP4Foodpeople
                           0.02
                                             0.00
                                                                0.00
## T3DP5Foodanimals
                           0.02
                                             0.00
                                                                0.09
## T3DP6Docs
                           0.00
                                             0.00
                                                                0.00
## T3DP7Firewood
                           0.05
                                             0.00
                                                                0.00
## T3DP8Secureddwelling
                           0.21
                                             0.00
                                                                0.00
## T3DP9Raiseitems
                           0.02
                                             0.00
                                                                0.00
## T3DP10Divertwater
                           0.29
                                             0.00
                                                                0.00
## T3DP11Removeblowingobj
                           0.00
                                             0.00
                                                                0.00
## T3DP12Famemergplan
                           0.29
                                             0.00
                                                                0.00
## T3DP13Evacplan
                           0.15
                                             0.00
                                                                0.00
## T3DP14Reconnectfamplan
                           0.26
                                             0.00
                                                                0.00
## T3DP15Talktochildren
                           0.17
                                             0.09
                                                                0.00
## T3DP16RadioTVcomp
                           0.14
                                             0.00
                                                                0.00
## T3DP17Firstaid
                           0.24
                                             0.00
                                                                0.00
## T3DP18Cleanwater
                                             0.00
                           0.05
                                                                0.00
## T3DP19Disinfect
                           0.06
                                              0.00
                                                                0.00
## T3DP20Sanitation
                                             0.00
                           0.00
                                                                0.00
## T3DP21Safeplacewaterrise 0.01
                                             0.00
                                                                0.00
## T3DP22SafeplaceEQ
                           0.10
                                             0.00
                                                                0.00
## T3DP23Riskysafeplacemap 0.01
                                             0.00
                                                                0.00
## T3DP24Helpneighbors
                           0.02
                                              0.00
                                                                0.00
##
                           0.979423868312757
                                                 1 miss
## T3DP1Supplykit
                                        0.00 0.71 0.11
                                        0.00 0.98 0.11
## T3DP2Itemsinhouse
## T3DP3Meds
                                        0.43 0.56 0.11
## T3DP4Foodpeople
                                        0.00 0.98 0.11
## T3DP5Foodanimals
                                        0.00 0.89 0.11
## T3DP6Docs
                                       0.00 1.00 0.11
## T3DP7Firewood
                                       0.00 0.95 0.11
## T3DP8Secureddwelling
                                       0.00 0.79 0.11
## T3DP9Raiseitems
                                       0.00 0.98 0.11
## T3DP10Divertwater
                                       0.00 0.71 0.11
## T3DP11Removeblowingobj
                                       0.00 1.00 0.11
## T3DP12Famemergplan
                                       0.00 0.71 0.11
## T3DP13Evacplan
                                        0.00 0.85 0.11
```

```
0.00 0.74 0.11
## T3DP14Reconnectfamplan
## T3DP15Talktochildren
                                          0.00 0.75 0.11
## T3DP16RadioTVcomp
                                          0.00 0.86 0.11
## T3DP17Firstaid
                                          0.00 0.76 0.11
## T3DP18Cleanwater
                                          0.00 0.95 0.11
## T3DP19Disinfect
                                          0.00 0.94 0.11
## T3DP20Sanitation
                                          0.00 1.00 0.11
## T3DP21Safeplacewaterrise
                                          0.00 0.99 0.11
## T3DP22SafeplaceEQ
                                          0.00 0.90 0.11
## T3DP23Riskysafeplacemap
                                          0.00 0.99 0.11
## T3DP24Helpneighbors
                                          0.00 0.98 0.11
per_yes_T1 <- t(summarise_all(T1_DP_vars, funs(sum(. == 1, na.rm = T) / (sum(. == 0, na.rm = T) + sum(
per_yes_T2 <- t(summarise_all(T2_DP_vars, funs(sum(. == 1, na.rm = T) / (sum(. == 0, na.rm = T) + sum(
per_yes_T3 <- t(summarise_all(T3_DP_vars, funs(sum(. == 1, na.rm = T) / (sum(. == 0, na.rm = T) + sum(
per_yes_T1 <- data.frame(percent_yes = per_yes_T1[,1], question = row.names(per_yes_T1))</pre>
per_yes_T2 <- data.frame(percent_yes = per_yes_T2[,1], question = row.names(per_yes_T2))</pre>
per_yes_T3 <- data.frame(percent_yes = per_yes_T3[,1], question = row.names(per_yes_T3))</pre>
ggplot(per_yes_T1, aes(x=reorder(question, percent_yes), y=percent_yes)) + geom_bar(stat = "identity")
```

Time point 1 disaster preparedness questions



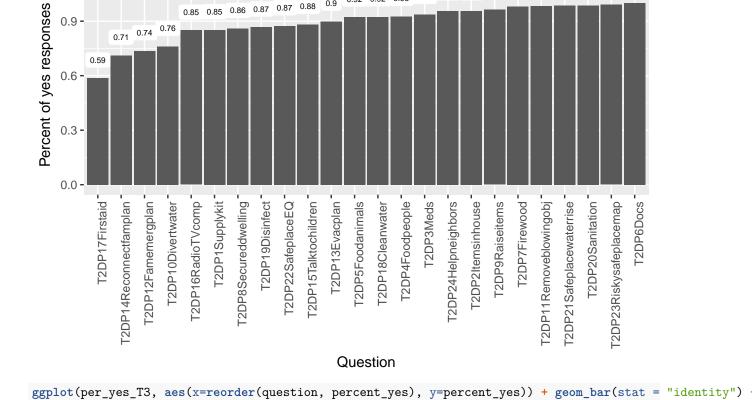
ggplot(per_yes_T2, aes(x=reorder(question, percent_yes), y=percent_yes)) + geom_bar(stat = "identity")

Time point 2 disaster preparedness questions

0.85 0.85 0.86 0.87 0.87 0.88 0.9

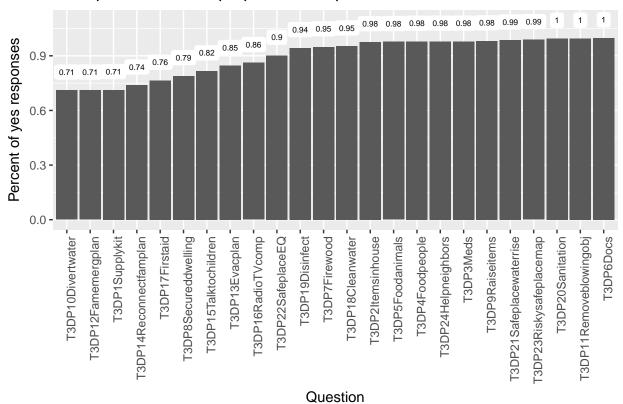
0.9 -

0.76 0.74

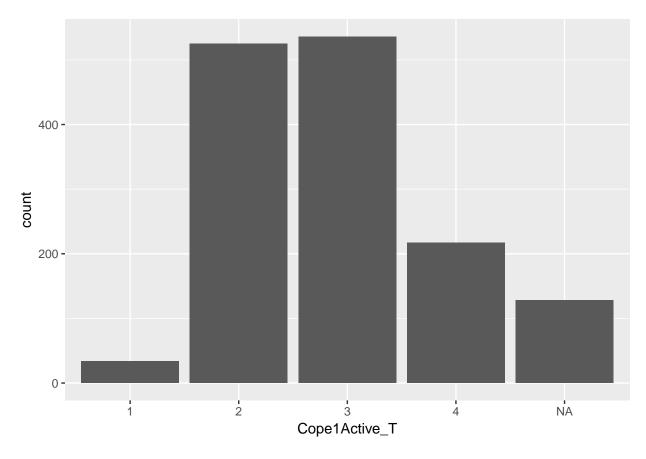


0.92 0.92 0.93 0.94 0.96 0.96 0.96 0.98 0.98 0.99 0.99 0.99

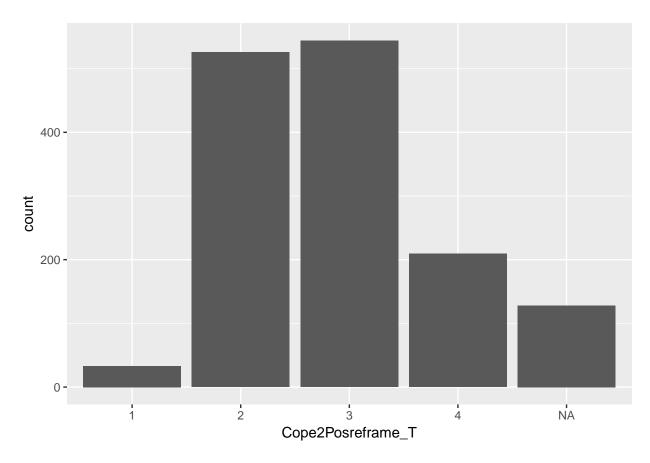
Time point 3 disaster preparedness questions



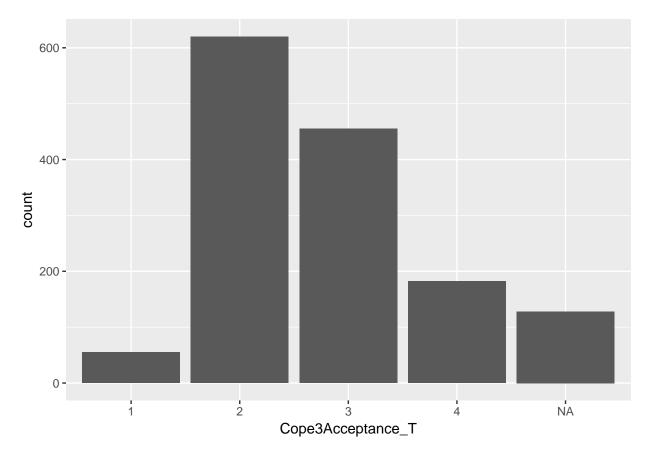
Many of the disaster preparation questions are answered 'yes' at an extremely high rate. Let's make a new variable that includes only questions where less than 95% of respondants said yes at time 1.



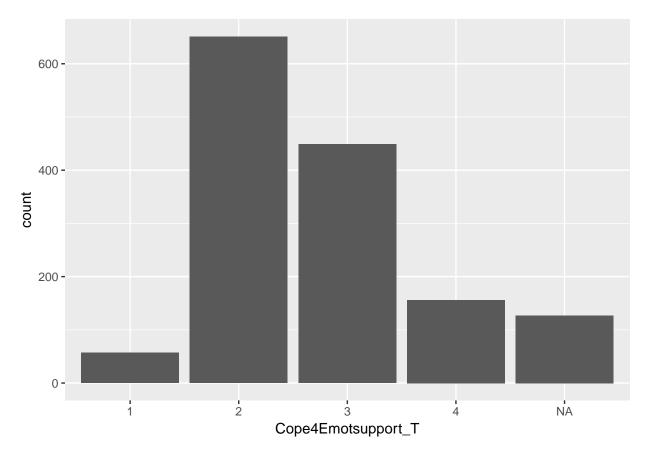
Warning: Ignoring unknown parameters: binwidth, bins, pad



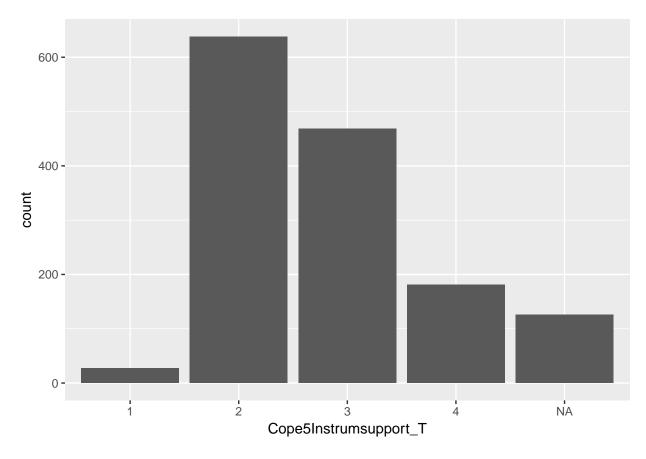
Warning: Ignoring unknown parameters: binwidth, bins, pad



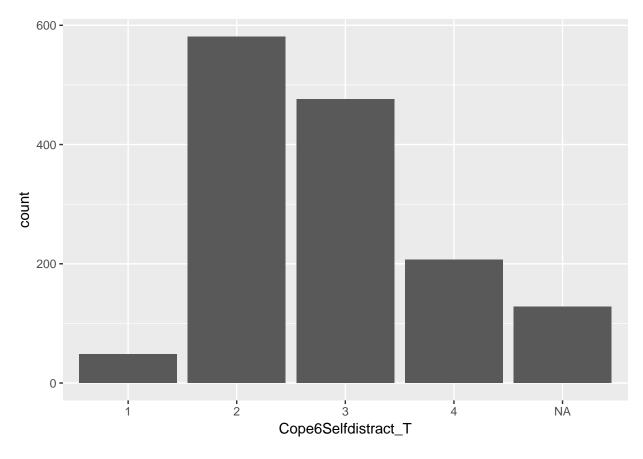
Warning: Ignoring unknown parameters: binwidth, bins, pad



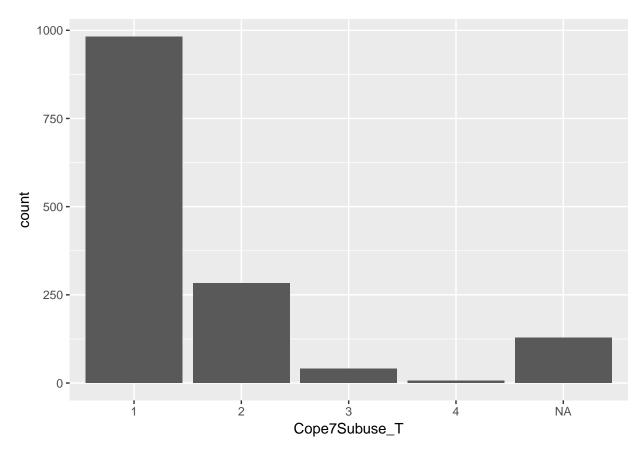
Warning: Ignoring unknown parameters: binwidth, bins, pad



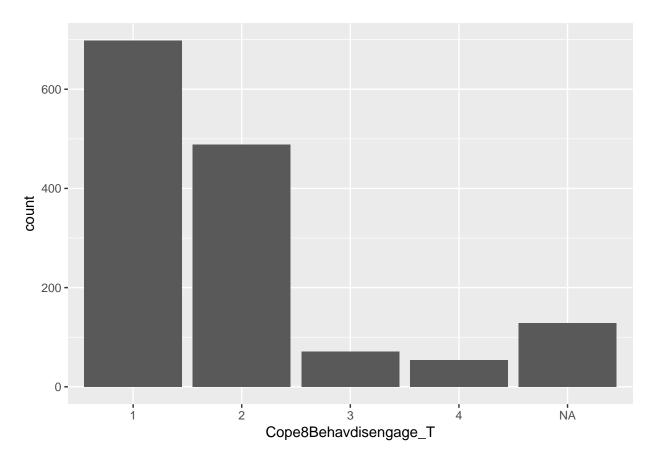
Warning: Ignoring unknown parameters: binwidth, bins, pad



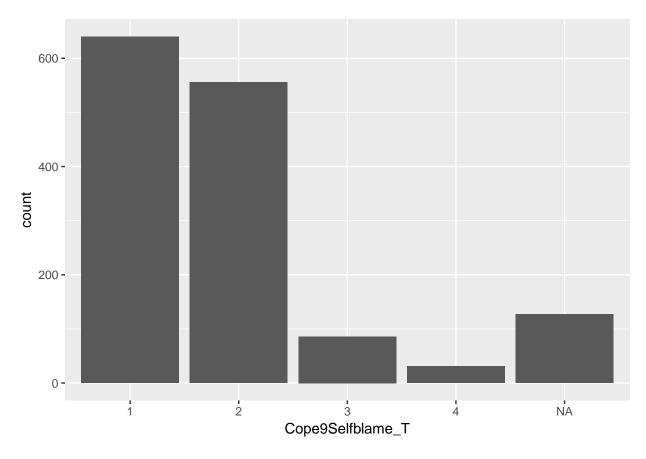
Warning: Ignoring unknown parameters: binwidth, bins, pad



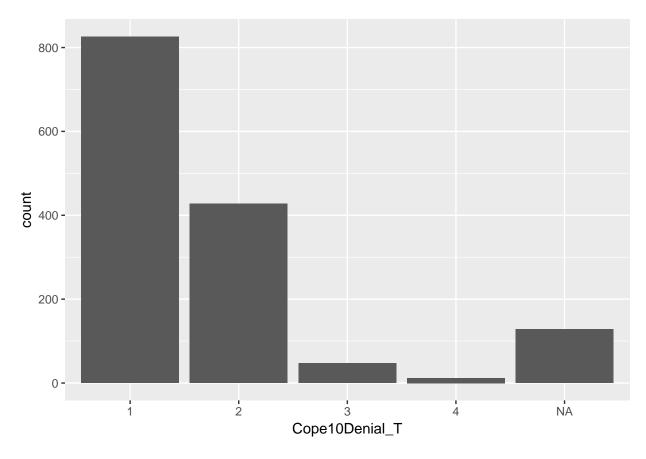
Warning: Ignoring unknown parameters: binwidth, bins, pad



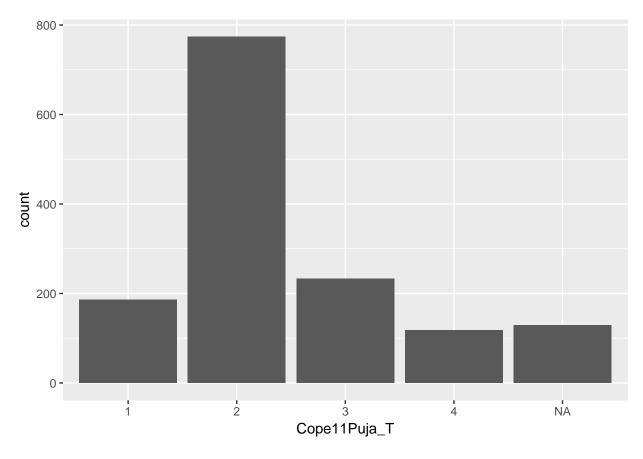
Warning: Ignoring unknown parameters: binwidth, bins, pad



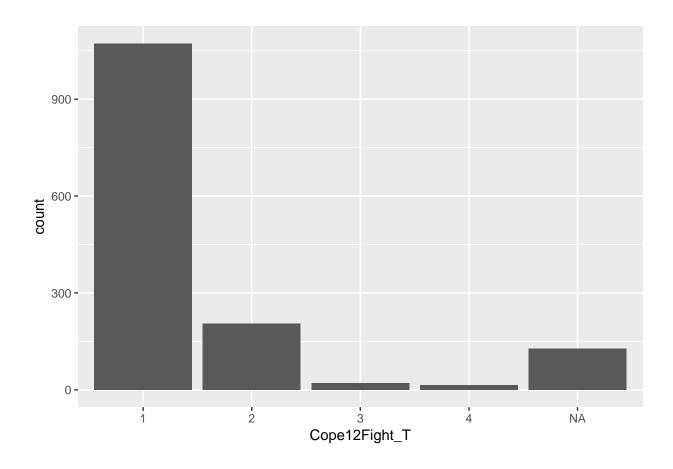
Warning: Ignoring unknown parameters: binwidth, bins, pad

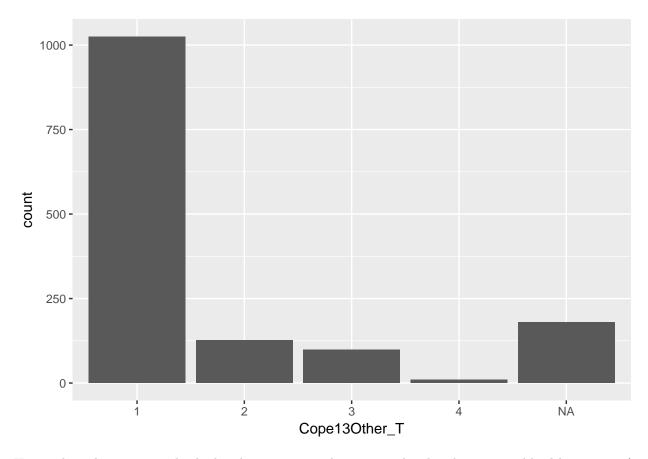


Warning: Ignoring unknown parameters: binwidth, bins, pad



Warning: Ignoring unknown parameters: binwidth, bins, pad



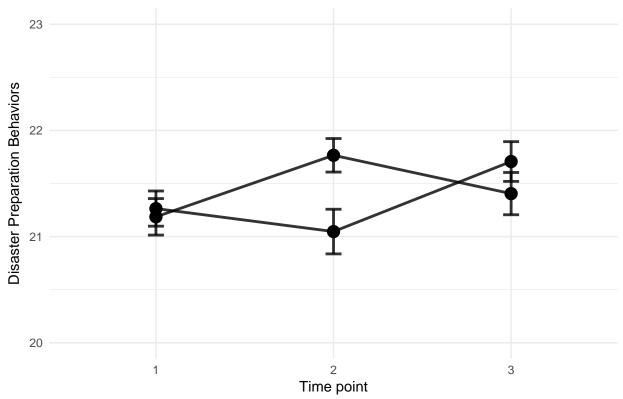


Having done that, we can ask whether disaster preparedness is correlated with our mental health measures (a primary assumption of the intervention). We'll run it on the overall disaster preparedness measure and our cut-down version with only items with 95% or less 'yes' respondents.

```
cor.test( ~ DP_cleaned_T + BDImean16_T, data = data, subset = timePoint_factor == "1" )
##
##
   Pearson's product-moment correlation
##
## data: DP_cleaned_T and BDImean16_T
## t = 1.2469, df = 438, p-value = 0.2131
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
   -0.03420015 0.15211233
## sample estimates:
          cor
## 0.05947402
cor.test( ~ DP_cleaned_T + PTSDmean13_T, data = data, subset = timePoint_factor == "1" )
##
##
   Pearson's product-moment correlation
##
## data: DP_cleaned_T and PTSDmean13_T
## t = 4.2324, df = 438, p-value = 2.818e-05
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## 0.1067121 0.2863957
```

```
## sample estimates:
##
         cor
## 0.1982187
cor.test( ~ DP_95_T + BDImean16_T, data = data, subset = timePoint_factor == "1" )
##
## Pearson's product-moment correlation
##
## data: DP_95_T and BDImean16_T
## t = 1.1105, df = 449, p-value = 0.2674
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.04019414 0.14397600
## sample estimates:
          cor
## 0.05233593
cor.test( ~ DP 95 T + PTSDmean13 T, data = data, subset = timePoint factor == "1" )
##
## Pearson's product-moment correlation
##
## data: DP_95_T and PTSDmean13_T
## t = 4.4586, df = 449, p-value = 1.044e-05
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## 0.1157702 0.2926763
## sample estimates:
##
        cor
## 0.205905
Now we'll create a figure of disaster preparedness means + standard errors across intervention groups and
time points.
plot_line_bar <- function(dv, limits, theme_style = theme_grey(), title = "", position=c(.8825, .25), b
  if(is.factor(filtered[[dv]])) {
    filtered[[paste0(dv, '_numeric')]] <- as.numeric(filtered[[dv]])</pre>
    dv <- paste0(dv, '_numeric')</pre>
  breaks <- seq(limits[1], limits[2], by=by)</pre>
  wrap_113 <- wrap_format(113)</pre>
  line <- ggplot(filtered, aes_string(x="timePoint_factor", y=dv, group="interventiongroup", shape="int
        stat_summary(geom="errorbar", fun.data=mean_se, fun.args=list(mult=1), width=.09, size=1, alpha
        stat_summary(aes(color=interventionLinePlotting), geom="line", fun.y="mean", size=1, alpha=.8,
        stat_summary(geom="point", fun.y="mean", size=4, aes(color=interventPlotting)) +
        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(
        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()
        + guides(shape = guide_legend(override.aes = list(shape=c(19,17))),
              colour = guide_legend(override.aes = list(linetype = c(1,1), shape=NA)))
  line
  if(save) {
   ggsave(paste0(title, '.pdf'), device=cairo_pdf, width = 7.5, height = 5)
  print(line)
limits <-c(20, 23)
theme <- theme_minimal()</pre>
rnge <- round(range(filtered$DP_cleaned_T, na.rm = TRUE),0)</pre>
caption = "24-item yes/no scale (range %d - %d), with greater values indicating greater engagement in d
plot_line_bar("DP_cleaned_T", limits, theme, "Disaster Preparation Behaviors", logit=FALSE, rnge = rnge
## Warning: Removed 182 rows containing non-finite values (stat_summary).
## Warning: Removed 182 rows containing non-finite values (stat_summary).
## Warning: Removed 182 rows containing non-finite values (stat_summary).
## Warning: Removed 182 rows containing non-finite values (stat_summary).
## Warning: Removed 182 rows containing non-finite values (stat_summary).
## Warning: Removed 182 rows containing non-finite values (stat_summary).
```



24-item yes/no scale (range 10 - 24), with greater values indicating greater engagement in disast behaviors

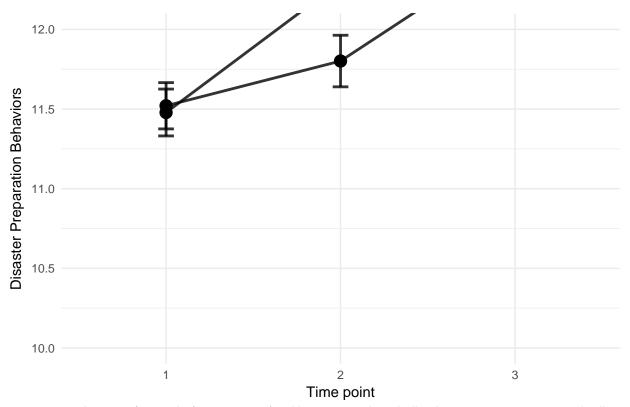
```
DP_model <- lmer(DP_cleaned_T ~ interventiongroup * timePoint_factor + (1 loc_factor/ID_factor), data =
summary(DP_model)
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
     to degrees of freedom [lmerMod]
## Formula:
## DP_cleaned_T ~ interventiongroup * timePoint_factor + (1 | loc_factor/ID_factor)
     Data: filtered
##
##
## REML criterion at convergence: 5932.2
##
## Scaled residuals:
                10 Median
                                3Q
                                       Max
## -3.8404 -0.3888 0.2323 0.6142 1.7648
##
## Random effects:
## Groups
                         Name
                                     Variance Std.Dev.
## ID_factor:loc_factor (Intercept) 1.97505 1.4054
## loc factor
                         (Intercept) 0.06732 0.2595
## Residual
                                     5.04314 2.2457
## Number of obs: 1255, groups: ID_factor:loc_factor, 475; loc_factor, 3
## Fixed effects:
##
                                                     Estimate Std. Error
## (Intercept)
                                                     21.25606
                                                                 0.22986
                                                     -0.07864
## interventiongroupIntervention
                                                                 0.25170
```

```
## timePoint_factor2
                                                      -0.19911
                                                                  0.21803
                                                                  0.21425
                                                      0.41237
## timePoint_factor3
## interventiongroupIntervention:timePoint_factor2
                                                      0.72255
                                                                  0.31611
## interventiongroupIntervention:timePoint_factor3
                                                     -0.22892
                                                                  0.31122
                                                            df t value
## (Intercept)
                                                      5.90000 92.472
## interventiongroupIntervention
                                                    1121.20000 -0.312
## timePoint_factor2
                                                    833.70000 -0.913
## timePoint_factor3
                                                    818.00000
                                                                 1.925
## interventiongroupIntervention:timePoint_factor2
                                                    840.40000
                                                                 2.286
## interventiongroupIntervention:timePoint_factor3
                                                    826.70000 -0.736
                                                    Pr(>|t|)
## (Intercept)
                                                    1.36e-10 ***
## interventiongroupIntervention
                                                     0.7548
## timePoint_factor2
                                                      0.3614
## timePoint_factor3
                                                      0.0546 .
## interventiongroupIntervention:timePoint_factor2
                                                      0.0225 *
## interventiongroupIntervention:timePoint_factor3
                                                      0.4622
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
               (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
##
## intrvntngrI -0.525
## tmPnt fctr2 -0.448 0.409
## tmPnt_fctr3 -0.454 0.415 0.487
## intrvnI:P_2 0.309 -0.589 -0.690 -0.336
## intrvnI:P_3  0.313  -0.597  -0.335  -0.688  0.485
Anova(DP_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
## Response: DP_cleaned_T
##
                                          Chisq Df Pr(>Chisq)
## (Intercept)
                                      8551.0764
                                                 1
                                                    < 2.2e-16 ***
## interventiongroup
                                         0.0976
                                                     0.754711
                                                 1
## timePoint_factor
                                         8.1870 2
                                                     0.016681 *
## interventiongroup:timePoint_factor
                                         9.6704 2
                                                     0.007945 **
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
\#summary(rbind(pairs(lsmeans::lsmeans(DP\_model, \sim interventiongroup * timePoint\_factor), by = "timePoint"
DP_MM <- lsmeans::lsmeans(DP_model, ~ timePoint_factor * interventiongroup)</pre>
summary(rbind(pairs(DP_MM, by="interventiongroup")[c(1,3,4,6)], pairs(DP_MM, by="timePoint_factor")))
   timePoint_factor contrast
##
                                            interventiongroup
                                                                  estimate
##
                     1 - 2
                                            Control
                                                                0.19911481
##
                     2 - 3
                                            Control
                                                               -0.61148885
                     1 - 2
##
                                            Intervention
                                                               -0.52343261
                     2 - 3
##
                                            Intervention
                                                                0.33997386
## 1
                     Control - Intervention .
                                                                0.07863847
## 2
                     Control - Intervention .
                                                              -0.64390894
##
   3
                     Control - Intervention .
                                                               0.30755377
##
           SE
                   df t.ratio p.value
```

```
## 0.2180276 833.73 0.913 1.0000
## 0.2190543 811.32 -2.791 0.0376
## 0.2288935 846.33 -2.287 0.1572
## 0.2310525 813.80
                      1.471 0.9910
## 0.2516970 1121.17
                       0.312 1.0000
## 0.2636326 1153.06 -2.442 0.1032
                      1.191 1.0000
## 0.2582720 1135.36
##
## P value adjustment: bonferroni method for 7 tests
DP_95_model <- lmer(DP_95_T ~ interventiongroup * timePoint_factor + (1 loc_factor/ID_factor), data = f
summary(DP_95_model)
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
     to degrees of freedom [lmerMod]
## DP_95_T ~ interventiongroup * timePoint_factor + (1 | loc_factor/ID_factor)
##
     Data: filtered
##
## REML criterion at convergence: 5382
## Scaled residuals:
      Min
               1Q Median
                               30
## -3.4736 -0.4877 0.2397 0.6162 1.8570
## Random effects:
## Groups
                                    Variance Std.Dev.
                        Name
## ID factor:loc factor (Intercept) 1.35758 1.1652
## loc_factor
                        (Intercept) 0.02095 0.1447
                                    2.96741 1.7226
## Number of obs: 1273, groups: ID_factor:loc_factor, 477; loc_factor, 3
##
## Fixed effects:
                                                    Estimate Std. Error
## (Intercept)
                                                    11.51682
                                                                0.15917
## interventiongroupIntervention
                                                    -0.05809
                                                                0.19522
## timePoint_factor2
                                                     0.28189
                                                                0.16556
## timePoint_factor3
                                                     0.96262
                                                                0.16303
## interventiongroupIntervention:timePoint_factor2
                                                     0.51315
                                                                0.24061
## interventiongroupIntervention:timePoint_factor3
                                                    -0.17529
                                                                0.23666
##
                                                          df t value
## (Intercept)
                                                     8.60000 72.354
## interventiongroupIntervention
                                                   1095.90000 -0.298
## timePoint factor2
                                                   835.20000
                                                               1.703
## timePoint factor3
                                                   823.70000
                                                               5.905
## interventiongroupIntervention:timePoint_factor2 845.20000
                                                               2.133
## interventiongroupIntervention:timePoint_factor3 833.00000 -0.741
##
                                                   Pr(>|t|)
## (Intercept)
                                                   2.76e-13 ***
## interventiongroupIntervention
                                                    0.7661
## timePoint_factor2
                                                    0.0890 .
## timePoint_factor3
                                                  5.16e-09 ***
## interventiongroupIntervention:timePoint_factor2
                                                    0.0332 *
## interventiongroupIntervention:timePoint_factor3
                                                    0.4591
## ---
```

```
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
              (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
##
## intrvntngrI -0.591
## tmPnt fctr2 -0.488 0.398
## tmPnt fctr3 -0.495 0.403 0.484
## intrvnI:P_2 0.336 -0.571 -0.688 -0.333
## intrvnI:P_3 0.341 -0.579 -0.333 -0.689 0.481
Anova(DP_95_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: DP_95_T
##
                                         Chisq Df Pr(>Chisq)
## (Intercept)
                                     5235.0578 1 < 2.2e-16 ***
## interventiongroup
                                        0.0885 1
                                                     0.76604
                                       36.6077 2 1.124e-08 ***
## timePoint_factor
                                        8.6071 2
## interventiongroup:timePoint_factor
                                                     0.01352 *
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
#summary(rbind(pairs(lsmeans::lsmeans(DP_model, ~ interventiongroup * timePoint_factor), by = "timePoin
DP_95_MM <- lsmeans::lsmeans(DP_95_model, ~ timePoint_factor * interventiongroup)
summary(rbind(pairs(DP_95_MM, by="interventiongroup")[c(1,3,4,6)], pairs(DP_95_MM, by="timePoint_factor
  timePoint_factor contrast
                                           interventiongroup
                                                                estimate
                    1 - 2
                                           Control
##
                                                             -0.28188564
##
                    2 - 3
                                           Control
                                                             -0.68073002
                    1 - 2
##
                                           Intervention
                                                             -0.79503993
                    2 - 3
##
                                           Intervention
                                                              0.00771349
## 1
                    Control - Intervention .
                                                              0.05809126
## 2
                    Control - Intervention .
                                                             -0.45506303
## 3
                    Control - Intervention .
                                                              0.23338048
##
          SE
                  df t.ratio p.value
## 0.1655631 835.17 -1.703 0.6231
## 0.1669174 816.21 -4.078 0.0003
## 0.1745900 854.26 -4.554 <.0001
## 0.1768405 821.80
                       0.044 1.0000
## 0.1952239 1095.88
                       0.298 1.0000
## 0.2058903 1142.37 -2.210 0.1910
## 0.2015750 1120.34 1.158 1.0000
##
## P value adjustment: bonferroni method for 7 tests
limits <-c(10, 12)
theme <- theme_minimal()</pre>
rnge <- round(range(filtered$DP_95_T, na.rm = TRUE),0)</pre>
caption = "13-item yes/no scale (range %d - %d), with greater values indicating greater engagement in d
plot_line_bar("DP_95_T", limits, theme, "Disaster Preparation Behaviors", logit=FALSE, rnge = rnge, by
## Warning: Removed 164 rows containing non-finite values (stat_summary).
## Warning: Removed 164 rows containing non-finite values (stat_summary).
```

```
## Warning: Removed 164 rows containing non-finite values (stat_summary).
## Warning: Removed 164 rows containing non-finite values (stat_summary).
## Warning: Removed 164 rows containing non-finite values (stat_summary).
## Warning: Removed 164 rows containing non-finite values (stat_summary).
```



13-item yes/no scale (range 4 - 14), with greater values indicating greater engagement in disas

```
BDI_model <- lmer(BDImean16_T ~ interventiongroup * timePoint_factor + (1|ID_factor), data = filtered)
summary(BDI_model)
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
     to degrees of freedom [lmerMod]
## Formula:
## BDImean16_T ~ interventiongroup * timePoint_factor + (1 | ID_factor)
```

REML criterion at convergence: 1067

Scaled residuals:

##

##

##

Data: filtered

Min 1Q Median ЗQ Max

-3.4371 -0.5304 -0.1032 0.4806 5.6524 ##

Random effects:

Groups Name Variance Std.Dev. ID_factor (Intercept) 0.10784 0.3284

Residual 0.07161 0.2676

```
## Number of obs: 1314, groups: ID_factor, 480
##
## Fixed effects:
                                                    Estimate Std. Error
##
## (Intercept)
                                                    1.608546
                                                               0.027009
## interventiongroupIntervention
                                                   -0.023243
                                                               0.038706
## timePoint factor2
                                                   -0.060812
                                                               0.025370
## timePoint factor3
                                                   -0.190192
                                                               0.025043
## interventiongroupIntervention:timePoint_factor2 -0.001086
                                                               0.036866
## interventiongroupIntervention:timePoint_factor3
                                                    0.042190
                                                               0.036125
                                                          df t value
                                                  796.700000 59.556
## (Intercept)
## interventiongroupIntervention
                                                  798.000000 -0.600
## timePoint_factor2
                                                  857.500000 -2.397
## timePoint_factor3
                                                  854.300000 -7.594
## interventiongroupIntervention:timePoint_factor2 863.600000 -0.029
## interventiongroupIntervention:timePoint_factor3 858.600000
                                                               1.168
##
                                                  Pr(>|t|)
## (Intercept)
                                                   < 2e-16 ***
## interventiongroupIntervention
                                                    0.5483
## timePoint_factor2
                                                    0.0167 *
## timePoint factor3
                                                   8.1e-14 ***
## interventiongroupIntervention:timePoint_factor2
                                                    0.9765
## interventiongroupIntervention:timePoint factor3
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
              (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.698
## tmPnt_fctr2 -0.425 0.296
## tmPnt_fctr3 -0.430 0.300 0.473
## intrvnI:P_2 0.292 -0.420 -0.688 -0.325
## intrvnI:P_3 0.298 -0.428 -0.328 -0.693 0.469
Anova(BDI_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
## Response: BDImean16_T
##
                                         Chisq Df Pr(>Chisq)
## (Intercept)
                                     3546.9139 1 < 2.2e-16 ***
## interventiongroup
                                        0.3606 1
                                                      0.5482
## timePoint factor
                                       59.5064 2 1.198e-13 ***
## interventiongroup:timePoint factor
                                        1.7915 2
                                                      0.4083
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(BDI_model, ~ interventiongroup * timePoint_factor), by = "timePoin"
## timePoint_factor contrast
                                             estimate
                                                              SE
                                                                    df
## 2
                    Control - Intervention 0.02432938 0.04073152 898.2
## t.ratio p.value
     0.597 0.5505
```

```
self_eff_model <- lmer(selfeffmeanT ~ interventiongroup * timePoint_factor + (1 loc_factor/ID_factor),
summary(self_eff_model)
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
    to degrees of freedom [lmerMod]
## Formula:
## selfeffmeanT ~ interventiongroup * timePoint_factor + (1 | loc_factor/ID_factor)
##
      Data: filtered
##
## REML criterion at convergence: 2440.2
## Scaled residuals:
##
       Min
                     Median
                                   3Q
              1Q
## -2.74952 -0.59140 0.01568 0.55413 2.94308
##
## Random effects:
## Groups
                                    Variance Std.Dev.
                        Name
## ID_factor:loc_factor (Intercept) 0.173779 0.41687
## loc_factor
                         (Intercept) 0.001154 0.03397
## Residual
                                     0.252569 0.50256
## Number of obs: 1311, groups: ID_factor:loc_factor, 479; loc_factor, 3
## Fixed effects:
                                                   Estimate Std. Error
## (Intercept)
                                                    3.15507
                                                               0.04608
## interventiongroupIntervention
                                                   -0.07887
                                                               0.05974
## timePoint factor2
                                                   -0.01747
                                                               0.04751
## timePoint_factor3
                                                    0.25982
                                                               0.04693
## interventiongroupIntervention:timePoint_factor2
                                                    0.12492
                                                               0.06895
## interventiongroupIntervention:timePoint_factor3 -0.14477
                                                               0.06763
##
                                                          df t value Pr(>|t|)
                                                    10.00000 68.471 9.77e-15
## (Intercept)
## interventiongroupIntervention
                                                   996.90000 -1.320
                                                                      0.1871
                                                   860.00000 -0.368
## timePoint_factor2
                                                                      0.7132
## timePoint_factor3
                                                   854.50000
                                                            5.536 4.12e-08
## interventiongroupIntervention:timePoint_factor2 867.60000
                                                             1.812
                                                                      0.0703
## interventiongroupIntervention:timePoint_factor3 859.20000 -2.141
                                                                      0.0326
##
## (Intercept)
## interventiongroupIntervention
## timePoint_factor2
## timePoint_factor3
## interventiongroupIntervention:timePoint_factor2 .
## interventiongroupIntervention:timePoint_factor3 *
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Correlation of Fixed Effects:
##
               (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.632
## tmPnt_fctr2 -0.472 0.364
## tmPnt_fctr3 -0.477 0.368 0.473
## intrvnI:P_2 0.325 -0.514 -0.689 -0.326
## intrvnI:P_3 0.331 -0.524 -0.328 -0.694 0.467
```

```
Anova(self_eff_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
## Response: selfeffmeanT
##
                                         Chisq Df Pr(>Chisq)
## (Intercept)
                                     4688.2736 1 < 2.2e-16 ***
## interventiongroup
                                        1.7428 1 0.1867840
## timePoint_factor
                                       42.1308 2 7.103e-10 ***
## interventiongroup:timePoint_factor
                                      14.6942 2 0.0006445 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(self_eff_model, ~ interventiongroup * timePoint_factor), by = "time")
## timePoint_factor contrast
                                              estimate
                                                               SE
## 2
                    Control - Intervention -0.04605823 0.06394876 1091.76
## t.ratio p.value
##
     -0.72 0.4715
SelfEff1timeT_model <- clmm(SelfEff1timeT ~ interventiongroup * timePoint_factor + (1 loc_factor/ID_fac
summary(SelfEff1timeT model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
## formula:
## SelfEff1timeT ~ interventiongroup * timePoint_factor + (1 | loc_factor/ID_factor)
## data:
           filtered
## link threshold nobs logLik AIC
                                         niter
                                                   max.grad cond.H
## logit flexible 1278 -1650.31 3322.61 947(3666) 9.05e-04 2.1e+02
##
## Random effects:
## Groups
                        Name
                                    Variance Std.Dev.
## ID_factor:loc_factor (Intercept) 1.619e+00 1.272463
                        (Intercept) 9.245e-05 0.009615
## Number of groups: ID_factor:loc_factor 477, loc_factor 3
## Coefficients:
                                                  Estimate Std. Error
## interventiongroupIntervention
                                                   -0.4081
                                                               0.2191
## timePoint_factor2
                                                   -0.2691
                                                               0.1856
## timePoint_factor3
                                                    0.2408
                                                               0.1820
## interventiongroupIntervention:timePoint_factor2
                                                    0.2559
                                                               0.2680
## interventiongroupIntervention:timePoint_factor3 -0.2178
                                                               0.2613
                                                  z value Pr(>|z|)
## interventiongroupIntervention
                                                   -1.863 0.0625 .
## timePoint_factor2
                                                   -1.450
                                                            0.1470
## timePoint_factor3
                                                    1.323
                                                            0.1859
## interventiongroupIntervention:timePoint_factor2 0.955
                                                            0.3396
## interventiongroupIntervention:timePoint_factor3 -0.834
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
```

```
Estimate Std. Error z value
## 1 2 -5.7341
                   0.3560 -16.107
## 2|3 -2.0424
                    0.1732 - 11.795
## 3|4
        0.2435
                    0.1577
                            1.544
## 4|5
        2.3849
                    0.1809 13.185
## (162 observations deleted due to missingness)
Anova(SelfEff1timeT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
## Response: SelfEff1timeT
                                      LR Chisq Df Pr(>Chisq)
                                        0.0000 1
                                                      0.9952
## interventiongroup
                                        0.0000 2
## timePoint_factor
                                                      1.0000
                                                      0.2038
## interventiongroup:timePoint_factor
                                        3.1814 2
summary(rbind(pairs(lsmeans::lsmeans(SelfEff1timeT_model, ~ interventiongroup * timePoint_factor), by =
## timePoint_factor contrast
                                             estimate
                                                             SE df z.ratio
## 2
                     Control - Intervention 0.1521721 0.2268818 NA
##
   p.value
##
    0.5024
SelfEff2affordT_model <- clmm(SelfEff2affordT ~ interventiongroup * timePoint_factor + (1 ID_factor),
summary(SelfEff2affordT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: SelfEff2affordT ~ interventiongroup * timePoint_factor + (1 |
      ID_factor)
## data:
           filtered
##
## link threshold nobs logLik AIC
                                                    max.grad cond.H
                                          niter
   logit flexible 1313 -1495.34 3010.68 822(2469) 1.78e-03 7.1e+01
##
## Random effects:
## Groups
                          Variance Std.Dev.
             Name
## ID_factor (Intercept) 1.198
## Number of groups: ID_factor 480
##
## Coefficients:
                                                    Estimate Std. Error
## interventiongroupIntervention
                                                   -0.123390 0.211908
## timePoint_factor2
                                                   -0.009857
                                                               0.190354
## timePoint_factor3
                                                    0.466862
                                                               0.187949
## interventiongroupIntervention:timePoint_factor2 0.249993
                                                               0.275342
## interventiongroupIntervention:timePoint_factor3 -0.383767
                                                               0.268374
                                                   z value Pr(>|z|)
## interventiongroupIntervention
                                                    -0.582
                                                              0.560
## timePoint factor2
                                                    -0.052
                                                              0.959
## timePoint factor3
                                                     2.484
                                                              0.013 *
## interventiongroupIntervention:timePoint_factor2
                                                     0.908
                                                              0.364
## interventiongroupIntervention:timePoint_factor3 -1.430
## ---
```

Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1

```
##
## Threshold coefficients:
      Estimate Std. Error z value
## 1|2 -4.4146
                   0.2600 -16.978
## 2|3 -1.4980
                   0.1606 -9.326
## 3|4
                   0.1660 10.808
        1.7941
        3.1411
                   0.1945 16.147
## 4|5
## (127 observations deleted due to missingness)
Anova(SelfEff2affordT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
## Response: SelfEff2affordT
##
                                     LR Chisq Df Pr(>Chisq)
                                       0.0000 1
## interventiongroup
                                                    1.00000
## timePoint_factor
                                       0.0000 2
                                                    1.00000
## interventiongroup:timePoint_factor
                                       5.3545 2
                                                    0.06875 .
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(SelfEff2affordT_model, ~ interventiongroup * timePoint_factor), by
## timePoint_factor contrast
                                             estimate
                                                             SE df z.ratio
                     Control - Intervention -0.1266031 0.2257569 NA -0.561
## p.value
   0.5749
SelfEff3infoT_model <- clmm(SelfEff3infoT ~ interventiongroup * timePoint_factor + (1|loc_factor/ID_fa
summary(SelfEff3infoT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula:
## SelfEff3infoT ~ interventiongroup * timePoint factor + (1 | loc factor/ID factor)
           filtered
## data:
## link threshold nobs logLik
                                 AIC
                                         niter
                                                   max.grad cond.H
   logit flexible 1311 -1607.94 3237.87 970(3846) 1.22e-03 1.2e+02
##
## Random effects:
## Groups
                        Name
                                    Variance Std.Dev.
## ID_factor:loc_factor (Intercept) 1.735651 1.31744
                         (Intercept) 0.007689 0.08769
## Number of groups: ID_factor:loc_factor 479, loc_factor 3
##
## Coefficients:
                                                   Estimate Std. Error
## interventiongroupIntervention
                                                  -0.168943
                                                              0.214515
## timePoint_factor2
                                                  -0.005567
                                                              0.183091
## timePoint factor3
                                                   1.204707
                                                              0.183334
## interventiongroupIntervention:timePoint factor2 0.547458
                                                              0.266878
## interventiongroupIntervention:timePoint_factor3 -0.338566
                                                              0.258318
                                                  z value Pr(>|z|)
## interventiongroupIntervention
                                                   -0.788 0.4310
## timePoint_factor2
                                                   -0.030
                                                            0.9757
```

```
## timePoint factor3
                                                   6.571 4.99e-11 ***
## interventiongroupIntervention:timePoint_factor2 2.051
                                                           0.0402 *
## interventiongroupIntervention:timePoint_factor3 -1.311
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
      Estimate Std. Error z value
## 1|2 -6.6819
                0.6081 -10.989
                   0.1687 -7.952
## 2|3 -1.3418
## 3|4
       1.1028
                   0.1656 6.661
                   0.2036 16.345
        3.3283
## 4|5
## (129 observations deleted due to missingness)
Anova(SelfEff3infoT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
## Response: SelfEff3infoT
                                     LR Chisq Df Pr(>Chisq)
##
## interventiongroup
                                       0.000 1
                                                  1.000000
                                       0.000 2
## timePoint_factor
                                                  1.000000
## interventiongroup:timePoint_factor 10.714 2
                                                  0.004715 **
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(SelfEff3infoT_model, ~ interventiongroup * timePoint_factor), by =
## timePoint factor contrast
                                                           SE df z.ratio
                                           estimate
## 2
                    Control - Intervention -0.378515 0.2334614 NA -1.621
## p.value
##
    0.1049
DISMHmeanT_model <- lmer(DISMHmeanT ~ interventiongroup * timePoint_factor + (1 ID_factor), data = filt
summary(DISMHmeanT model)
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
   to degrees of freedom [lmerMod]
## DISMHmeanT ~ interventiongroup * timePoint_factor + (1 | ID_factor)
##
     Data: filtered
## REML criterion at convergence: 2531.6
##
## Scaled residuals:
      Min 1Q Median
                               3Q
## -3.4372 -0.5800 0.0050 0.6163 2.6200
##
## Random effects:
                         Variance Std.Dev.
## Groups
           Name
## ID_factor (Intercept) 0.09978 0.3159
                         0.31575 0.5619
## Number of obs: 1314, groups: ID_factor, 480
## Fixed effects:
##
                                                   Estimate Std. Error
```

```
## (Intercept)
                                                   3.194e+00 4.118e-02
## interventiongroupIntervention
                                                  -7.171e-02 5.892e-02
## timePoint factor2
                                                  -3.859e-01 5.290e-02
                                                  -5.791e-01 5.230e-02
## timePoint_factor3
## interventiongroupIntervention:timePoint_factor2 8.136e-03 7.658e-02
## interventiongroupIntervention:timePoint_factor3 -2.543e-04 7.522e-02
                                                          df t value
                                                   1.182e+03 77.559
## (Intercept)
## interventiongroupIntervention
                                                   1.181e+03 -1.217
## timePoint_factor2
                                                   8.722e+02 -7.295
## timePoint_factor3
                                                   8.645e+02 -11.073
## interventiongroupIntervention:timePoint_factor2 8.810e+02
                                                               0.106
## interventiongroupIntervention:timePoint_factor3 8.692e+02 -0.003
##
                                                  Pr(>|t|)
## (Intercept)
                                                   < 2e-16 ***
## interventiongroupIntervention
                                                     0.224
## timePoint_factor2
                                                  6.72e-13 ***
## timePoint factor3
                                                   < 2e-16 ***
## interventiongroupIntervention:timePoint_factor2
                                                     0.915
## interventiongroupIntervention:timePoint_factor3
                                                     0.997
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
               (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.699
## tmPnt_fctr2 -0.592 0.414
## tmPnt_fctr3 -0.599 0.419 0.472
## intrvnI:P_2 0.409 -0.585 -0.691 -0.326
## intrvnI:P_3 0.416 -0.596 -0.328 -0.695 0.466
Anova(DISMHmeanT_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
## Response: DISMHmeanT
##
                                         Chisq Df Pr(>Chisq)
## (Intercept)
                                     6015.4187 1
                                                      <2e-16 ***
                                                      0.2236
## interventiongroup
                                        1.4813 1
## timePoint_factor
                                      128.1104 2
                                                      <2e-16 ***
## interventiongroup:timePoint_factor
                                        0.0149 2
                                                      0.9926
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(DISMHmeanT_model, ~ interventiongroup * timePoint_factor), by = "t
## timePoint_factor contrast
                                                             SF.
                                            estimate
                     Control - Intervention 0.0635698 0.06369961 1231.6
## t.ratio p.value
     0.998 0.3185
DisMH1anxiousT_model <- clmm(DisMH1anxiousT ~ interventiongroup * timePoint_factor + (1 ID_factor), dat
summary(DisMH1anxiousT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
```

```
## formula: DisMH1anxiousT ~ interventiongroup * timePoint_factor + (1 |
##
       ID_factor)
           filtered
## data:
##
## link threshold nobs logLik
                                 AIC
                                          niter
                                                   max.grad cond.H
## logit flexible 1314 -1618.57 3257.14 863(2591) 1.40e-03 9.2e+01
## Random effects:
## Groups
             Name
                          Variance Std.Dev.
## ID_factor (Intercept) 0.782
                                   0.8843
## Number of groups: ID_factor 480
## Coefficients:
##
                                                   Estimate Std. Error
## interventiongroupIntervention
                                                   -0.11522
                                                               0.19987
## timePoint_factor2
                                                   -1.56640
                                                               0.18991
## timePoint_factor3
                                                   -2.04662
                                                               0.19029
## interventiongroupIntervention:timePoint factor2 -0.13611
                                                               0.26464
## interventiongroupIntervention:timePoint_factor3 -0.05514
                                                               0.25686
                                                   z value Pr(>|z|)
## interventiongroupIntervention
                                                    -0.576
                                                             0.564
## timePoint factor2
                                                    -8.248
                                                            <2e-16 ***
## timePoint_factor3
                                                   -10.755
                                                             <2e-16 ***
## interventiongroupIntervention:timePoint_factor2 -0.514
                                                              0.607
## interventiongroupIntervention:timePoint_factor3 -0.215
                                                              0.830
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Threshold coefficients:
      Estimate Std. Error z value
## 1|2 -5.9558
                   0.2826 -21.073
## 2|3 -2.7577
                   0.1712 -16.108
## 3|4 -1.3414
                   0.1504 -8.917
       1.7062
                   0.1573 10.845
## 4|5
## (126 observations deleted due to missingness)
Anova(DisMH1anxiousT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
## Response: DisMH1anxiousT
                                     LR Chisq Df Pr(>Chisq)
                                      0.00000 1
## interventiongroup
                                                      1.0000
## timePoint factor
                                      0.00000 2
                                                      1.0000
## interventiongroup:timePoint factor 0.26675 2
                                                      0.8751
summary(rbind(pairs(lsmeans::lsmeans(DisMH1anxiousT_model, ~ interventiongroup * timePoint_factor), by
## timePoint factor contrast
                                                            SE df z.ratio
                                             estimate
                     Control - Intervention 0.2513249 0.208219 NA
## p.value
    0.2274
DisMH2depressedT_model <- clmm(DisMH2depressedT ~ interventiongroup * timePoint_factor + (1|ID_factor)
summary(DisMH2depressedT_model)
```

```
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisMH2depressedT ~ interventiongroup * timePoint_factor + (1 |
      ID_factor)
##
## data:
           filtered
##
## link threshold nobs logLik
                                 AIC
                                                    max.grad cond.H
                                          niter
## logit flexible 1311 -1677.18 3374.36 818(2457) 2.00e-03 8.3e+01
##
## Random effects:
## Groups
             Name
                          Variance Std.Dev.
## ID_factor (Intercept) 1.51
## Number of groups: ID_factor 480
##
## Coefficients:
##
                                                   Estimate Std. Error
## interventiongroupIntervention
                                                   -0.23303
                                                               0.21154
## timePoint factor2
                                                   -1.09880
                                                               0.18475
## timePoint_factor3
                                                   -1.70180
                                                               0.18801
## interventiongroupIntervention:timePoint_factor2 -0.06037
                                                               0.26285
## interventiongroupIntervention:timePoint_factor3 -0.25720
                                                               0.26021
                                                   z value Pr(>|z|)
## interventiongroupIntervention
                                                    -1.102
                                                              0.271
## timePoint factor2
                                                    -5.947 2.72e-09 ***
## timePoint factor3
                                                    -9.052 < 2e-16 ***
## interventiongroupIntervention:timePoint_factor2 -0.230
                                                              0.818
## interventiongroupIntervention:timePoint_factor3 -0.988
                                                              0.323
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
       Estimate Std. Error z value
## 1|2 -5.0887
                   0.2431 -20.929
## 2|3 -1.8812
                    0.1656 -11.359
## 3|4 -0.2013
                    0.1527 - 1.318
        2.7089
                   0.1921 14.102
## 4|5
## (129 observations deleted due to missingness)
Anova(DisMH2depressedT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
## Response: DisMH2depressedT
##
                                      LR Chisq Df Pr(>Chisq)
## interventiongroup
                                        0.0000 1
                                                      1.0000
                                        0.0000 2
                                                      1,0000
## timePoint_factor
## interventiongroup:timePoint_factor
                                       1.0534 2
                                                      0.5905
summary(rbind(pairs(lsmeans::lsmeans(DisMH2depressedT_model, ~ interventiongroup * timePoint_factor), b
## timePoint_factor contrast
                                             estimate
                                                            SE df z.ratio
## 2
                     Control - Intervention 0.2933969 0.223535 NA 1.313
## p.value
   0.1893
```

```
summary(DisMH3avoidT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula:
## DisMH3avoidT ~ interventiongroup * timePoint_factor + (1 | loc_factor/ID_factor)
## data:
          filtered
##
## link threshold nobs logLik
                                 AIC
                                         niter
                                                   max.grad cond.H
## logit flexible 1311 -1504.90 3031.80 938(2817) 1.39e-03 7.4e+01
##
## Random effects:
## Groups
                        Name
                                    Variance Std.Dev.
## ID_factor:loc_factor (Intercept) 0.92238 0.9604
## loc_factor
                        (Intercept) 0.01261 0.1123
## Number of groups: ID_factor:loc_factor 479, loc_factor 3
## Coefficients:
                                                  Estimate Std. Error
## interventiongroupIntervention
                                                   -0.1381
                                                               0.2046
## timePoint factor2
                                                   -0.1224
                                                               0.1865
## timePoint_factor3
                                                   -0.3996
                                                               0.1860
## interventiongroupIntervention:timePoint_factor2
                                                    0.2747
                                                               0.2707
## interventiongroupIntervention:timePoint_factor3
                                                    0.2768
                                                               0.2664
                                                  z value Pr(>|z|)
## interventiongroupIntervention
                                                   -0.675 0.4998
## timePoint_factor2
                                                   -0.656
                                                            0.5115
## timePoint_factor3
                                                   -2.149
                                                            0.0317 *
## interventiongroupIntervention:timePoint_factor2 1.015
                                                            0.3103
## interventiongroupIntervention:timePoint_factor3
                                                   1.039
                                                            0.2988
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
      Estimate Std. Error z value
## 1|2 -2.1483
                 0.1779 -12.074
## 2|3 1.0338
                   0.1640 6.305
       2.4958
## 3|4
                   0.1854 13.460
                   0.3348 14.949
## 415
       5.0047
## (129 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
                                                     0.9999
                                        0.000 2
## timePoint_factor
                                                     1.0000
## interventiongroup:timePoint_factor
                                        1.427 2
                                                     0.4899
summary(rbind(pairs(lsmeans::lsmeans(DisMH3avoidT_model, ~ interventiongroup * timePoint_factor), by =
## timePoint_factor contrast
                                             estimate
                                                             SE df z.ratio
```

DisMH3avoidT_model <- clmm(DisMH3avoidT ~ interventiongroup * timePoint_factor + (1 loc_factor/ID_fact

```
## 2
                     Control - Intervention -0.1365974 0.2166177 NA -0.631
## p.value
    0.5283
Fatalismmean_T_model <- lmer(Fatalismmean_T ~ interventiongroup * timePoint_factor + (1 loc_factor/ID_f.
summary(Fatalismmean_T_model)
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
    to degrees of freedom [lmerMod]
## Formula: Fatalismmean_T ~ interventiongroup * timePoint_factor + (1 |
      loc factor/ID factor)
##
##
     Data: filtered
##
## REML criterion at convergence: 3923.2
##
## Scaled residuals:
       Min
            1Q
                     Median
## -2.78385 -0.62025 0.01431 0.60548 2.94563
## Random effects:
## Groups
                        Name
                                    Variance Std.Dev.
## ID_factor:loc_factor (Intercept) 0.4730
                                            0.6877
## loc factor
                        (Intercept) 0.0264
                                             0.1625
## Residual
                                    0.8168 0.9038
## Number of obs: 1311, groups: ID_factor:loc_factor, 479; loc_factor, 3
## Fixed effects:
##
                                                    Estimate Std. Error
## (Intercept)
                                                     2.84193
                                                                0.11859
## interventiongroupIntervention
                                                     0.01605
                                                                0.10392
## timePoint_factor2
                                                    -0.07359
                                                                0.08535
## timePoint_factor3
                                                    -0.61686
                                                                0.08434
## interventiongroupIntervention:timePoint_factor2
                                                    -0.19648
                                                                0.12383
## interventiongroupIntervention:timePoint_factor3
                                                     0.03751
                                                                0.12150
##
                                                          df t value
## (Intercept)
                                                      3.60000 23.965
## interventiongroupIntervention
                                                   1039.80000
                                                              0.154
## timePoint_factor2
                                                   858.50000 -0.862
## timePoint_factor3
                                                   852.40000 -7.314
## interventiongroupIntervention:timePoint_factor2 866.50000 -1.587
## interventiongroupIntervention:timePoint_factor3 857.20000
                                                               0.309
                                                  Pr(>|t|)
## (Intercept)
                                                   3.90e-05 ***
## interventiongroupIntervention
                                                     0.877
## timePoint factor2
                                                      0.389
## timePoint_factor3
                                                  5.98e-13 ***
## interventiongroupIntervention:timePoint_factor2
                                                     0.113
## interventiongroupIntervention:timePoint_factor3
                                                     0.758
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Correlation of Fixed Effects:
               (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.427
## tmPnt_fctr2 -0.330 0.376
```

```
## tmPnt_fctr3 -0.334 0.381 0.473
## intrvnI:P_2 0.227 -0.532 -0.689 -0.326
## intrvnI:P_3 0.232 -0.542 -0.328 -0.694 0.467
Anova(Fatalismmean_T_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: Fatalismmean_T
##
                                        Chisq Df Pr(>Chisq)
## (Intercept)
                                     574.3267 1 < 2.2e-16 ***
## interventiongroup
                                       0.0238 1
                                                     0.8773
## timePoint factor
                                      62.1689 2 3.164e-14 ***
## interventiongroup:timePoint_factor
                                      3.9249 2
                                                     0.1405
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(Fatalismmean_T_model, ~ interventiongroup * timePoint_factor), by =
## timePoint_factor contrast
                                            estimate
                                                            SE
## 2
                    Control - Intervention 0.1804311 0.1115569 1127.23
## t.ratio p.value
     1.617 0.1061
Fat1dontworryT_model <- clmm(Fat1dontworryT ~ interventiongroup * timePoint_factor + (1 loc_factor/ID_
summary(Fat1dontworryT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: Fat1dontworryT ~ interventiongroup * timePoint_factor + (1 |
      loc_factor/ID_factor)
## data:
           filtered
##
## link threshold nobs logLik AIC
                                                    max.grad cond.H
                                         niter
## logit flexible 1311 -1936.09 3894.19 1013(3067) 1.57e-03 1.6e+02
##
## Random effects:
## Groups
                                    Variance Std.Dev.
                        Name
## ID_factor:loc_factor (Intercept) 1.5274
                        (Intercept) 0.1096 0.3311
## loc factor
## Number of groups: ID_factor:loc_factor 479, loc_factor 3
##
## Coefficients:
##
                                                    Estimate Std. Error
## interventiongroupIntervention
                                                  -0.0001447 0.2090811
                                                  -0.0498061 0.1769564
## timePoint_factor2
## timePoint_factor3
                                                  -1.0195395 0.1777626
## interventiongroupIntervention:timePoint_factor2 -0.3324101 0.2570117
## interventiongroupIntervention:timePoint_factor3 0.1072714 0.2524507
##
                                                  z value Pr(>|z|)
## interventiongroupIntervention
                                                   -0.001
                                                            0.999
## timePoint factor2
                                                   -0.281
                                                             0.778
## timePoint_factor3
                                                   -5.735 9.73e-09 ***
## interventiongroupIntervention:timePoint_factor2 -1.293
                                                             0.196
## interventiongroupIntervention:timePoint_factor3     0.425
                                                             0.671
```

```
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
      Estimate Std. Error z value
## 1|2 -1.9830
                   0.2519 -7.873
## 2|3 -0.9934
                   0.2459 -4.040
## 314
       0.6034
                   0.2443
                           2.470
                   0.2635 10.223
## 4|5
        2.6939
## (129 observations deleted due to missingness)
Anova(Fat1dontworryT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
##
## Response: Fat1dontworryT
##
                                      LR Chisq Df Pr(>Chisq)
## interventiongroup
                                        0.0000
                                               1
                                                      0.9998
## timePoint_factor
                                       0.0000 2
                                                      1.0000
## interventiongroup:timePoint_factor
                                       3.1166 2
                                                      0.2105
summary(rbind(pairs(lsmeans::lsmeans(Fat1dontworryT_model, ~ interventiongroup * timePoint_factor), by
## timePoint_factor contrast
                                             estimate
                                                             SE df z.ratio
                    Control - Intervention 0.3325548 0.2192372 NA
## 2
## p.value
##
    0.1293
Fat2injuredT_model <- clmm(Fat2injuredT ~ interventiongroup * timePoint_factor + (1 ID_factor), data =
summary(Fat2injuredT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula:
## Fat2injuredT ~ interventiongroup * timePoint_factor + (1 | ID_factor)
## data:
           filtered
##
  link threshold nobs logLik
                                 AIC
                                         niter
                                                   max.grad cond.H
  logit flexible 1314 -1915.85 3851.70 855(2579) 9.39e-04 1.1e+02
## Random effects:
## Groups
                          Variance Std.Dev.
## ID_factor (Intercept) 1.585
                                   1.259
## Number of groups: ID_factor 480
##
## Coefficients:
                                                   Estimate Std. Error
##
## interventiongroupIntervention
                                                    0.06521
                                                              0.20930
## timePoint_factor2
                                                   -0.21972
                                                               0.17677
## timePoint_factor3
                                                   -1.16392
                                                               0.18137
## interventiongroupIntervention:timePoint_factor2 -0.38412
                                                               0.25761
## interventiongroupIntervention:timePoint_factor3 0.03124
                                                               0.25538
##
                                                  z value Pr(>|z|)
## interventiongroupIntervention
                                                    0.312
                                                             0.755
## timePoint_factor2
                                                    -1.243
                                                              0.214
## timePoint_factor3
                                                    -6.417 1.39e-10 ***
## interventiongroupIntervention:timePoint_factor2 -1.491
```

```
## interventiongroupIntervention:timePoint_factor3 0.122
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
      Estimate Std. Error z value
##
## 1 2 -1.4812
                  0.1589 -9.319
                   0.1518 -1.452
## 2|3 -0.2205
## 314
        1.1534
                   0.1564
                            7.376
                   0.1867 15.039
## 4|5
        2.8070
## (126 observations deleted due to missingness)
Anova(Fat2injuredT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
##
## Response: Fat2injuredT
                                      LR Chisq Df Pr(>Chisq)
## interventiongroup
                                       0.0000 1
                                                     1.0000
                                       0.0000 2
                                                     1.0000
## timePoint_factor
                                       3.1051 2
## interventiongroup:timePoint_factor
                                                     0.2117
summary(rbind(pairs(lsmeans::lsmeans(Fat2injuredT_model, ~ interventiongroup * timePoint_factor), by =
## timePoint_factor contrast
                                                           SE df z.ratio
                                            estimate
## 2
                     Control - Intervention 0.31891 0.2216933 NA
## p.value
    0.1503
##
DisAt1NaturalT_model <- clmm(DisAt1NaturalT ~ interventiongroup * timePoint_factor + (1 ID_factor), da
summary(DisAt1NaturalT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula: DisAt1NaturalT ~ interventiongroup * timePoint_factor + (1 |
##
       ID_factor)
## data:
           filtered
##
   link threshold nobs logLik
                                 AIC
                                                   max.grad cond.H
                                         niter
  logit flexible 1312 -1375.04 2768.08 687(1428) 2.39e-03 9.9e+01
##
##
## Random effects:
## Groups
             Name
                          Variance Std.Dev.
## ID_factor (Intercept) 0.2498
                                  0.4998
## Number of groups: ID_factor 480
##
## Coefficients:
                                                  Estimate Std. Error
## interventiongroupIntervention
                                                   -0.19103
                                                              0.19841
## timePoint_factor2
                                                   -0.48382
                                                               0.19251
## timePoint factor3
                                                   -0.84041
                                                               0.18547
## interventiongroupIntervention:timePoint factor2 0.25331
                                                               0.27587
## interventiongroupIntervention:timePoint_factor3 0.05213
                                                               0.26207
                                                  z value Pr(>|z|)
## interventiongroupIntervention
                                                   -0.963
                                                             0.336
## timePoint_factor2
                                                   -2.513
                                                             0.012 *
```

```
## timePoint_factor3
                                                   -4.531 5.87e-06 ***
## interventiongroupIntervention:timePoint_factor2
                                                    0.918
                                                             0.359
## interventiongroupIntervention:timePoint_factor3
                                                    0.199
                                                             0.842
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
       Estimate Std. Error z value
## 1|2 -4.2823
                   0.2304 -18.583
## 2|3 -2.2613
                   0.1618 -13.974
## 3|4 -0.6141
                   0.1415 -4.341
## (128 observations deleted due to missingness)
Anova(DisAt1NaturalT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
## Response: DisAt1NaturalT
                                     LR Chisq Df Pr(>Chisq)
## interventiongroup
                                      0.00000 1
                                                     0.9999
                                      0.00000 2
## timePoint_factor
                                                     1.0000
## interventiongroup:timePoint_factor 0.94795 2
                                                     0.6225
summary(rbind(pairs(lsmeans::lsmeans(DisAt1NaturalT_model, ~ interventiongroup * timePoint_factor), by
                                                             SE df z.ratio
## timePoint_factor contrast
                                              estimate
                     Control - Intervention -0.06227529 0.202328 NA -0.308
## p.value
   0.7582
DisAt2GodswillT_model <- clmm(DisAt2GodswillT ~ interventiongroup * timePoint_factor + (1|loc_factor/T
summary(DisAt2GodswillT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
## formula: DisAt2GodswillT ~ interventiongroup * timePoint_factor + (1 |
       loc factor/ID factor)
           filtered
## data:
## link threshold nobs logLik AIC
                                         niter
                                                   max.grad cond.H
## logit flexible 1310 -1591.04 3202.08 785(3702) 6.41e-04 1.4e+02
##
## Random effects:
## Groups
                                    Variance Std.Dev.
                        Name
## ID_factor:loc_factor (Intercept) 2.9965
                                             1.7311
                         (Intercept) 0.2529
## loc_factor
                                             0.5029
## Number of groups: ID_factor:loc_factor 479, loc_factor 3
##
## Coefficients:
                                                  Estimate Std. Error
##
## interventiongroupIntervention
                                                    0.2590
                                                               0.2480
## timePoint factor2
                                                    0.1195
                                                               0.1951
## timePoint_factor3
                                                   -0.8899
                                                               0.1971
## interventiongroupIntervention:timePoint_factor2 -0.3591
                                                               0.2818
## interventiongroupIntervention:timePoint_factor3 -0.0761
                                                               0.2791
##
                                                  z value Pr(>|z|)
```

```
## interventiongroupIntervention
                                                    1.045
                                                             0.296
## timePoint_factor2
                                                             0.540
                                                    0.613
## timePoint factor3
                                                   -4.516 6.31e-06 ***
## interventiongroupIntervention:timePoint_factor2 -1.275
                                                             0.202
## interventiongroupIntervention:timePoint_factor3 -0.273
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
      Estimate Std. Error z value
## 1|2 -0.7014
                  0.3419 -2.052
       0.7758
                   0.3429
                            2.263
## 2|3
## 314
        2.4869
                   0.3532 7.041
## (130 observations deleted due to missingness)
Anova(DisAt2GodswillT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
## Response: DisAt2GodswillT
                                     LR Chisq Df Pr(>Chisq)
## interventiongroup
                                       0.0000 1
                                                     0.9997
## timePoint factor
                                       0.0000 2
                                                     1.0000
## interventiongroup:timePoint_factor
                                       1.7578 2
                                                     0.4152
summary(rbind(pairs(lsmeans::lsmeans(DisAt2GodswillT_model, ~ interventiongroup * timePoint_factor), by
## timePoint_factor contrast
                                                            SE df z.ratio
                                            estimate
                    Control - Intervention 0.1001263 0.2635006 NA
## 2
## p.value
   0.7040
DisAt3OthersupernaT_model <- clmm(DisAt3OthersupernaT ~ interventiongroup * timePoint_factor + (1|loc_
summary(DisAt3OthersupernaT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
## formula: DisAt3OthersupernaT ~ interventiongroup * timePoint_factor +
       (1 | loc_factor/ID_factor)
##
           filtered
## data:
##
## link threshold nobs logLik AIC niter
                                                  max.grad cond.H
## logit flexible 1311 -928.22 1876.44 738(2956) 1.61e-03 7.9e+01
##
## Random effects:
                                    Variance Std.Dev.
## Groups
                        Name
## ID_factor:loc_factor (Intercept) 2.098e+00 1.448e+00
                        (Intercept) 9.365e-11 9.677e-06
## Number of groups: ID_factor:loc_factor 479, loc_factor 3
##
## Coefficients:
##
                                                  Estimate Std. Error
## interventiongroupIntervention
                                                   0.19276
                                                              0.27098
## timePoint_factor2
                                                   0.04086
                                                              0.24212
## timePoint_factor3
                                                  -0.49598
                                                              0.24745
## interventiongroupIntervention:timePoint_factor2 -0.51013
```

```
## interventiongroupIntervention:timePoint_factor3 0.02295
##
                                                  z value Pr(>|z|)
## interventiongroupIntervention
                                                    0.711
                                                            0.477
## timePoint_factor2
                                                    0.169
                                                             0.866
## timePoint_factor3
                                                   -2.004
                                                             0.045 *
## interventiongroupIntervention:timePoint factor2 -1.434
                                                             0.152
## interventiongroupIntervention:timePoint factor3
                                                    0.065
                                                             0.948
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
      Estimate Std. Error z value
                  0.2120 7.591
## 1|2 1.6097
## 2|3
       3.1485
                   0.2479 12.702
## 314
        4.5175
                   0.3013 14.995
## (129 observations deleted due to missingness)
Anova(DisAt3OthersupernaT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
## Response: DisAt3OthersupernaT
                                     LR Chisq Df Pr(>Chisq)
## interventiongroup
                                       0.0000 1
                                                     1.0000
                                       0.0000 2
                                                     1.0000
## timePoint_factor
## interventiongroup:timePoint_factor
                                       2.6321 2
                                                     0.2682
summary(rbind(pairs(lsmeans::lsmeans(DisAt3OthersupernaT_model, ~ interventiongroup * timePoint_factor)
## timePoint_factor contrast
                                           estimate
                                                           SE df z.ratio
                    Control - Intervention 0.317364 0.3081305 NA 1.03
## p.value
    0.3030
DisAt4KarmaT_model <- clmm(DisAt4KarmaT ~ interventiongroup * timePoint_factor + (1 loc_factor/ID_fact
summary(DisAt4KarmaT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
## formula:
## DisAt4KarmaT ~ interventiongroup * timePoint_factor + (1 | loc_factor/ID_factor)
           filtered
## data:
##
                                                   max.grad cond.H
## link threshold nobs logLik
                                 AIC
                                         niter
## logit flexible 1311 -1286.51 2593.01 707(2832) 1.95e-03 8.9e+01
##
## Random effects:
## Groups
                        Name
                                    Variance Std.Dev.
## ID_factor:loc_factor (Intercept) 1.55599 1.2474
                        (Intercept) 0.06442 0.2538
## loc_factor
## Number of groups: ID_factor:loc_factor 479, loc_factor 3
##
## Coefficients:
                                                  Estimate Std. Error
                                                    0.1251 0.2273
## interventiongroupIntervention
## timePoint_factor2
                                                   -0.4697
                                                               0.2087
```

```
## timePoint factor3
                                                   -0.6018
                                                               0.2054
## interventiongroupIntervention:timePoint_factor2 -0.4253
                                                              0.3047
                                                               0.2928
## interventiongroupIntervention:timePoint_factor3 -0.1073
                                                  z value Pr(>|z|)
## interventiongroupIntervention
                                                    0.551 0.58194
## timePoint factor2
                                                   -2.251 0.02441 *
## timePoint factor3
                                                   -2.930 0.00339 **
## interventiongroupIntervention:timePoint_factor2 -1.396 0.16278
## interventiongroupIntervention:timePoint_factor3 -0.367 0.71397
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
      Estimate Std. Error z value
## 1|2
       0.3508
                   0.2193
                           1.600
## 2|3
       1.7816
                   0.2313
                            7.702
        3.3267
                   0.2626 12.670
## 3|4
## (129 observations deleted due to missingness)
Anova(DisAt4KarmaT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAt4KarmaT
                                     LR Chisq Df Pr(>Chisq)
                                       0.0000 1
## interventiongroup
                                                     1.0000
## timePoint factor
                                       0.0000 2
                                                     1.0000
## interventiongroup:timePoint_factor 2.0241 2
                                                     0.3635
summary(rbind(pairs(lsmeans::lsmeans(DisAt4KarmaT_model, ~ interventiongroup * timePoint_factor), by =
                                                            SE df z.ratio
## timePoint_factor contrast
                                            estimate
## 2
                    Control - Intervention 0.3001229 0.2633713 NA
## p.value
##
   0.2545
DisAt5NeppeopT_model <- clmm(DisAt5NeppeopT ~ interventiongroup * timePoint_factor + (1 ID_factor), da
summary(DisAt5NeppeopT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
## formula: DisAt5NeppeopT ~ interventiongroup * timePoint_factor + (1 |
##
      ID_factor)
           filtered
## data:
## link threshold nobs logLik
                                AIC
                                         niter
                                                  max.grad cond.H
## logit flexible 1314 -1630.42 3278.83 668(2634) 1.78e-03 9.3e+01
##
## Random effects:
                         Variance Std.Dev.
## Groups
             Name
## ID_factor (Intercept) 1.711
## Number of groups: ID factor 480
##
## Coefficients:
##
                                                  Estimate Std. Error
## interventiongroupIntervention
                                                  -0.2206 0.2141
```

```
## timePoint_factor2
                                                   -0.6924
                                                               0.1909
## timePoint_factor3
                                                   -0.9063
                                                              0.1886
## interventiongroupIntervention:timePoint factor2
                                                    0.4433
                                                               0.2716
## interventiongroupIntervention:timePoint_factor3
                                                    0.7858
                                                               0.2636
                                                  z value Pr(>|z|)
## interventiongroupIntervention
                                                   -1.030 0.302896
## timePoint factor2
                                                   -3.627 0.000287 ***
## timePoint factor3
                                                   -4.806 1.54e-06 ***
## interventiongroupIntervention:timePoint_factor2 1.632 0.102623
## interventiongroupIntervention:timePoint_factor3 2.981 0.002873 **
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Threshold coefficients:
      Estimate Std. Error z value
## 1|2 -0.8774
                 0.1570 -5.588
## 2|3 0.4842
                   0.1552
                            3.120
## 3|4
       2.3130
                   0.1787 12.945
## (126 observations deleted due to missingness)
Anova(DisAt5NeppeopT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
##
## Response: DisAt5NeppeopT
                                     LR Chisq Df Pr(>Chisq)
## interventiongroup
                                       0.0000 1
                                                     0.9998
## timePoint factor
                                       0.0000 2
                                                     1.0000
## interventiongroup:timePoint_factor
                                       9.0374 2
                                                     0.0109 *
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(DisAt5NeppeopT_model, ~ interventiongroup * timePoint_factor), by
## timePoint_factor contrast
                                             estimate
                                                             SE df z.ratio
## 2
                    Control - Intervention -0.2226392 0.2386841 NA -0.933
## p.value
    0.3509
DisAt6GovtsT_model <- clmm(DisAt6GovtsT ~ interventiongroup * timePoint_factor + (1 ID_factor), data =
summary(DisAt6GovtsT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula:
## DisAt6GovtsT ~ interventiongroup * timePoint_factor + (1 | ID_factor)
## data:
           filtered
##
## link threshold nobs logLik AIC
                                         niter
                                                   max.grad cond.H
## logit flexible 1313 -1601.01 3220.01 699(2758) 2.02e-03 1.0e+02
##
## Random effects:
## Groups
             Name
                         Variance Std.Dev.
## ID_factor (Intercept) 1.762
## Number of groups: ID_factor 479
##
```

```
## Coefficients:
##
                                                  Estimate Std. Error
## interventiongroupIntervention
                                                   0.03502
                                                              0.22006
## timePoint_factor2
                                                  -0.07928
                                                              0.19170
## timePoint_factor3
                                                   0.38348
                                                              0.18673
## interventiongroupIntervention:timePoint_factor2 0.37992
                                                              0.27593
## interventiongroupIntervention:timePoint_factor3 0.11070
                                                              0.26694
                                                  z value Pr(>|z|)
## interventiongroupIntervention
                                                    0.159
                                                             0.874
## timePoint_factor2
                                                   -0.414
                                                             0.679
## timePoint_factor3
                                                    2.054
                                                             0.040 *
## interventiongroupIntervention:timePoint_factor2
                                                    1.377
                                                             0.169
## interventiongroupIntervention:timePoint_factor3
                                                   0.415
                                                             0.678
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
      Estimate Std. Error z value
## 1|2 -0.05417
                  0.15627 -0.347
## 2|3 1.18244
                  0.16251
                           7.276
## 3|4 2.88690
                  0.19207 15.031
## (127 observations deleted due to missingness)
Anova(DisAt6GovtsT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
## Response: DisAt6GovtsT
##
                                     LR Chisq Df Pr(>Chisq)
## interventiongroup
                                       0.0000 1
                                                     0.9997
                                       0.0000 2
## timePoint_factor
                                                     1.0000
## interventiongroup:timePoint_factor 1.9609 2
                                                     0.3751
summary(rbind(pairs(lsmeans::lsmeans(DisAt6GovtsT_model, ~ interventiongroup * timePoint_factor), by =
                                                             SE df z.ratio
## timePoint_factor contrast
                                             estimate
## 2
                    Control - Intervention -0.4149459 0.2410141 NA -1.722
## p.value
    0.0851
Relig1PrivateactivT_model <- clmm(Relig1PrivateactivT ~ interventiongroup * timePoint_factor + (1|loc_
summary(Relig1PrivateactivT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
## formula: Relig1PrivateactivT ~ interventiongroup * timePoint_factor +
      (1 | loc_factor/ID_factor)
## data:
           filtered
##
   link threshold nobs logLik AIC
                                         niter
                                                    max.grad cond.H
## logit flexible 1286 -1823.47 3670.94 1047(5576) 1.39e-03 1.7e+02
##
## Random effects:
## Groups
                                    Variance Std.Dev.
                        Name
## ID_factor:loc_factor (Intercept) 4.2502 2.0616
## loc_factor
                        (Intercept) 0.1398 0.3738
```

```
## Number of groups: ID_factor:loc_factor 477, loc_factor 3
##
## Coefficients:
##
                                                  Estimate Std. Error
## interventiongroupIntervention
                                                   -0.07098
                                                               0.26928
## timePoint factor2
                                                   0.45346
                                                               0.19169
## timePoint factor3
                                                   0.50918
                                                               0.18832
## interventiongroupIntervention:timePoint_factor2 0.09415
                                                               0.27891
## interventiongroupIntervention:timePoint_factor3 -0.19580
##
                                                  z value Pr(>|z|)
## interventiongroupIntervention
                                                   -0.264 0.79210
                                                     2.366 0.01800 *
## timePoint_factor2
## timePoint_factor3
                                                    2.704 0.00686 **
## interventiongroupIntervention:timePoint_factor2
                                                    0.338 0.73568
## interventiongroupIntervention:timePoint_factor3 -0.720 0.47154
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Threshold coefficients:
      Estimate Std. Error z value
## 1|2 -4.5914
                   0.3460 -13.271
## 2|3 -0.3853
                   0.2902 -1.328
## 3|4
        1.3797
                   0.2936
                            4.700
## 4|5
        2.9553
                   0.3094
                            9.552
## 5|6
        3.6674
                   0.3210 11.426
## (154 observations deleted due to missingness)
Anova(Relig1PrivateactivT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
##
## Response: Relig1PrivateactivT
                                      LR Chisq Df Pr(>Chisq)
## interventiongroup
                                        0.0000 1
                                                     0.9998
                                        0.0000 2
## timePoint_factor
                                                      1.0000
## interventiongroup:timePoint_factor
                                       1.1635 2
                                                     0.5589
summary(rbind(pairs(lsmeans::lsmeans(Relig1PrivateactivT_model, ~ interventiongroup * timePoint_factor)
## timePoint_factor contrast
                                               estimate
                                                               SE df z.ratio
## 2
                    Control - Intervention -0.02317771 0.2782038 NA -0.083
## p.value
    0.9336
##
Relig2PublicactivT_model <- clmm(Relig2PublicactivT ~ interventiongroup * timePoint_factor + (1|loc_fa
summary(Relig2PublicactivT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
## formula: Relig2PublicactivT ~ interventiongroup * timePoint_factor + (1 |
       loc factor/ID factor)
##
           filtered
## data:
##
   link threshold nobs logLik
                                 AIC
                                         niter
                                                    max.grad cond.H
## logit flexible 1311 -1544.50 3113.00 1076(8703) 1.67e-03 1.5e+02
##
```

```
## Random effects:
                                    Variance Std.Dev.
## Groups
                        Name
## ID_factor:loc_factor (Intercept) 3.6174
                                            1.9020
                        (Intercept) 0.2805
                                             0.5296
## loc_factor
## Number of groups: ID_factor:loc_factor 479, loc_factor 3
##
## Coefficients:
##
                                                  Estimate Std. Error
## interventiongroupIntervention
                                                  -0.54647
                                                              0.25735
## timePoint_factor2
                                                  -0.61263
                                                              0.19300
## timePoint_factor3
                                                  -0.65827
                                                              0.19025
## interventiongroupIntervention:timePoint_factor2  0.43007
                                                              0.28083
                                                              0.27475
## interventiongroupIntervention:timePoint_factor3  0.03142
                                                  z value Pr(>|z|)
## interventiongroupIntervention
                                                   -2.123 0.03371 *
                                                   -3.174 0.00150 **
## timePoint_factor2
                                                   -3.460 0.00054 ***
## timePoint_factor3
## interventiongroupIntervention:timePoint_factor2
                                                   1.531 0.12566
                                                   0.114 0.90896
## interventiongroupIntervention:timePoint_factor3
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Threshold coefficients:
      Estimate Std. Error z value
## 1|2 -2.9243 0.3708 -7.887
## 2|3 0.6694
                   0.3577 1.871
## 3|4
       2.6105
                   0.3722
                           7.013
       5.2903
                   0.4495 11.770
## 4|5
       6.6076
## 5|6
                   0.5436 12.155
## (129 observations deleted due to missingness)
Anova(Relig2PublicactivT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
##
## Response: Relig2PublicactivT
##
                                     LR Chisq Df Pr(>Chisq)
                                       0.0000 1
## interventiongroup
                                                     0.9998
                                       0.0000 2
                                                     1.0000
## timePoint_factor
## interventiongroup:timePoint_factor
                                       2.8227 2
                                                     0.2438
summary(rbind(pairs(lsmeans::lsmeans(Relig2PublicactivT_model, ~ interventiongroup * timePoint_factor),
## timePoint factor contrast
                                            estimate
                                                            SE df z.ratio
## 2
                    Control - Intervention 0.1164043 0.2723449 NA 0.427
## p.value
    0.6691
func_m_model <- lmer(FuncMmean6_T ~ interventiongroup * timePoint_factor + (1|loc_factor/ID_factor), da
summary(func_m_model)
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
   to degrees of freedom [lmerMod]
## Formula:
## FuncMmean6_T ~ interventiongroup * timePoint_factor + (1 | loc_factor/ID_factor)
     Data: filtered
```

```
Subset: gender_factor == "Male"
##
## REML criterion at convergence: 168.6
##
## Scaled residuals:
            1Q Median
##
      Min
                                3Q
                                       Max
## -2.1524 -0.4880 -0.2140 0.3988 4.6871
##
## Random effects:
## Groups
                         Name
                                     Variance Std.Dev.
## ID_factor:loc_factor (Intercept) 0.059948 0.24484
                         (Intercept) 0.001561 0.03951
## loc_factor
## Residual
                                     0.053980 0.23234
## Number of obs: 340, groups: ID_factor:loc_factor, 128; loc_factor, 3
##
## Fixed effects:
##
                                                     Estimate Std. Error
## (Intercept)
                                                     1.249942
                                                                0.048702
                                                    -0.007832
## interventiongroupIntervention
                                                                0.059861
## timePoint factor2
                                                     0.048535
                                                                0.044171
## timePoint_factor3
                                                    -0.068719
                                                                0.043607
## interventiongroupIntervention:timePoint_factor2 -0.007694
                                                                0.063878
## interventiongroupIntervention:timePoint_factor3
                                                     0.032084
                                                                0.060859
                                                           df t value
## (Intercept)
                                                     7.880000 25.665
## interventiongroupIntervention
                                                   227.040000 -0.131
## timePoint_factor2
                                                   219.000000
                                                                1.099
                                                              -1.576
## timePoint_factor3
                                                   217.970000
## interventiongroupIntervention:timePoint_factor2 222.270000
                                                               -0.120
## interventiongroupIntervention:timePoint_factor3 218.670000
                                                                0.527
##
                                                   Pr(>|t|)
## (Intercept)
                                                   7.07e-09 ***
## interventiongroupIntervention
                                                      0.896
## timePoint_factor2
                                                      0.273
## timePoint factor3
                                                      0.117
## interventiongroupIntervention:timePoint_factor2
                                                      0.904
## interventiongroupIntervention:timePoint_factor3
                                                      0.599
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##
               (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.636
## tmPnt_fctr2 -0.405 0.329
## tmPnt_fctr3 -0.411 0.334 0.467
## intrvnI:P_2 0.280 -0.442 -0.691 -0.323
## intrvnI:P_3 0.294 -0.464 -0.335 -0.716 0.452
Anova(func_m_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: FuncMmean6_T
##
                                         Chisq Df Pr(>Chisq)
## (Intercept)
                                      658.6992 1
                                                    < 2e-16 ***
```

```
## interventiongroup
                                       0.0171 1
                                                    0.89591
## timePoint_factor
                                       6.7917 2
                                                    0.03351 *
## interventiongroup:timePoint_factor 0.4396 2
                                                    0.80269
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(func_m_model, ~ interventiongroup * timePoint_factor), by = "timeP
## Warning: Function call in data or subset: ref.grid/lsmeans results may be
## inconsistent
## timePoint factor contrast
                                             estimate
                    Control - Intervention 0.01552638 0.06547613 267.84
## 2
## t.ratio p.value
     0.237 0.8127
func_f_model <- lmer(FuncFmean6_T ~ interventiongroup * timePoint_factor + (1|loc_factor/ID_factor), da
summary(func_f_model)
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
    to degrees of freedom [lmerMod]
## Formula:
## FuncFmean6_T ~ interventiongroup * timePoint_factor + (1 | loc_factor/ID_factor)
      Data: filtered
   Subset: gender_factor == "Female"
##
##
## REML criterion at convergence: 933
## Scaled residuals:
      Min
               1Q Median
                               30
                                      Max
## -2.5487 -0.4586 -0.1932 0.3144 5.6100
##
## Random effects:
## Groups
                                    Variance Std.Dev.
                        Name
## ID_factor:loc_factor (Intercept) 0.0755880 0.27493
                        (Intercept) 0.0009698 0.03114
## loc_factor
## Residual
                                    0.1007233 0.31737
## Number of obs: 960, groups: ID_factor:loc_factor, 348; loc_factor, 3
## Fixed effects:
                                                    Estimate Std. Error
##
                                                   1.341e+00 3.608e-02
## (Intercept)
## interventiongroupIntervention
                                                   1.960e-02 4.516e-02
## timePoint_factor2
                                                  -6.351e-03 3.495e-02
## timePoint_factor3
                                                  -9.701e-02 3.459e-02
## interventiongroupIntervention:timePoint_factor2 -1.585e-02 5.065e-02
## interventiongroupIntervention:timePoint_factor3 -4.169e-05 5.022e-02
##
                                                          df t value
## (Intercept)
                                                   7.900e+00 37.169
## interventiongroupIntervention
                                                   7.164e+02 0.434
## timePoint_factor2
                                                   6.380e+02 -0.182
## timePoint_factor3
                                                   6.348e+02 -2.804
## interventiongroupIntervention:timePoint_factor2 6.408e+02 -0.313
## interventiongroupIntervention:timePoint_factor3 6.382e+02 -0.001
##
                                                  Pr(>|t|)
## (Intercept)
                                                  3.39e-10 ***
```

```
## interventiongroupIntervention
                                                    0.6644
## timePoint_factor2
                                                    0.8559
## timePoint factor3
                                                    0.0052 **
## interventiongroupIntervention:timePoint_factor2
                                                    0.7544
## interventiongroupIntervention:timePoint_factor3
                                                    0.9993
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##
              (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.601
## tmPnt_fctr2 -0.445 0.355
## tmPnt_fctr3 -0.449 0.359 0.475
## intrvnI:P_2 0.307 -0.511 -0.690 -0.328
## intrvnI:P_3 0.309 -0.515 -0.327 -0.689 0.474
Anova(func_f_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
## Response: FuncFmean6_T
##
                                         Chisq Df Pr(>Chisq)
                                     1381.5447 1 < 2.2e-16 ***
## (Intercept)
## interventiongroup
                                        0.1884 1
                                                    0.664288
## timePoint_factor
                                        9.5713 2
                                                    0.008349 **
## interventiongroup:timePoint_factor
                                        0.1260 2
                                                    0.938936
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(func_f_model, ~ interventiongroup * timePoint_factor), by = "timeP
## Warning: Function call in data or subset: ref.grid/lsmeans results may be
## inconsistent
## timePoint factor contrast
                                               estimate
                    Control - Intervention -0.003744477 0.04761483 771.8
## t.ratio p.value
    -0.079 0.9373
func_model <- lmer(functioning ~ interventiongroup * timePoint_factor + gender_factor + (1 ID_factor),
summary(func_model)
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
   to degrees of freedom [lmerMod]
## Formula:
## functioning ~ interventiongroup * timePoint_factor + gender_factor +
       (1 | ID_factor)
##
     Data: filtered
##
##
## REML criterion at convergence: 1118.2
## Scaled residuals:
      Min
           1Q Median
                               30
## -2.7084 -0.4464 -0.1947 0.3121 5.9839
##
## Random effects:
## Groups
             Name
                        Variance Std.Dev.
```

```
## ID_factor (Intercept) 0.07181 0.2680
                         0.08825 0.2971
## Residual
## Number of obs: 1304, groups: ID_factor, 477
## Fixed effects:
##
                                                    Estimate Std. Error
## (Intercept)
                                                    1.336462
                                                               0.027102
## interventiongroupIntervention
                                                    0.011820
                                                               0.036713
## timePoint_factor2
                                                    0.007326
                                                               0.028301
## timePoint_factor3
                                                   -0.089747
                                                               0.027947
## gender_factorMale
                                                   -0.076542
                                                               0.033641
## interventiongroupIntervention:timePoint_factor2 -0.013102
                                                               0.040915
## interventiongroupIntervention:timePoint_factor3
                                                    0.009892
                                                               0.040121
                                                          df t value
##
## (Intercept)
                                                  899.200000 49.312
## interventiongroupIntervention
                                                  957.400000
                                                               0.322
## timePoint_factor2
                                                  864.100000
                                                               0.259
## timePoint factor3
                                                  859.200000 -3.211
## gender_factorMale
                                                  483.200000 -2.275
## interventiongroupIntervention:timePoint_factor2 871.200000 -0.320
## interventiongroupIntervention:timePoint_factor3 863.900000
                                                               0.247
                                                  Pr(>|t|)
## (Intercept)
                                                   < 2e-16 ***
## interventiongroupIntervention
                                                   0.74756
## timePoint factor2
                                                   0.79579
## timePoint_factor3
                                                   0.00137 **
## gender_factorMale
                                                   0.02333 *
## interventiongroupIntervention:timePoint_factor2 0.74887
## interventiongroupIntervention:timePoint_factor3 0.80531
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
              (Intr) intrvI tmPn_2 tmPn_3 gndr_M iI:P_2
##
## intrvntngrI -0.655
## tmPnt_fctr2 -0.477
                     0.351
## tmPnt fctr3 -0.483 0.356 0.473
## gndr_fctrMl -0.317 -0.029 0.003 0.003
## intrvnI:P_2 0.326 -0.496 -0.692 -0.327 0.011
## intrvnI:P_3 0.336 -0.505 -0.329 -0.697 -0.002 0.468
Anova(func_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: functioning
##
                                         Chisq Df Pr(>Chisq)
                                     2431.6481 1 < 2.2e-16 ***
## (Intercept)
## interventiongroup
                                        0.1037 1 0.7474881
## timePoint_factor
                                       14.3795 2 0.0007543 ***
## gender_factor
                                        5.1768 1 0.0228898 *
## interventiongroup:timePoint_factor
                                        0.3039 2 0.8590521
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

```
summary(rbind(pairs(lsmeans::lsmeans(func_model, ~ interventiongroup * timePoint_factor), by = "timePoint_factor")
##
  timePoint_factor contrast
                                               estimate
                                                                SE
##
                     Control - Intervention 0.001282116 0.03913549 1054.16
  t.ratio p.value
##
     0.033 0.9739
##
## Results are averaged over some or all of the levels of: gender_factor
cope_model <- lmer(Copemean9_T ~ interventiongroup * timePoint_factor + (1|ID_factor), data = filtered)</pre>
summary(cope_model)
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
     to degrees of freedom [lmerMod]
## Formula:
## Copemean9_T ~ interventiongroup * timePoint_factor + (1 | ID_factor)
     Data: filtered
##
##
## REML criterion at convergence: 537.2
##
## Scaled residuals:
##
      Min
                1Q Median
                                3Q
                                       Max
## -3.3151 -0.5966 -0.0548 0.5305 3.9021
## Random effects:
## Groups
              Name
                          Variance Std.Dev.
## ID_factor (Intercept) 0.03109 0.1763
                          0.06330 0.2516
## Number of obs: 1314, groups: ID_factor, 480
## Fixed effects:
##
                                                     Estimate Std. Error
                                                    2.132e+00 1.959e-02
## (Intercept)
## interventiongroupIntervention
                                                   -3.460e-02 2.808e-02
## timePoint_factor2
                                                   -1.478e-02 2.371e-02
## timePoint_factor3
                                                   -5.371e-02 2.343e-02
## interventiongroupIntervention:timePoint_factor2 1.991e-02 3.439e-02
## interventiongroupIntervention:timePoint_factor3 1.748e-03 3.376e-02
##
                                                           df t value
## (Intercept)
                                                    1.090e+03 108.834
## interventiongroupIntervention
                                                    1.092e+03 -1.232
## timePoint_factor2
                                                    8.689e+02 -0.624
## timePoint factor3
                                                    8.625e+02
                                                               -2.293
## interventiongroupIntervention:timePoint_factor2 8.782e+02
                                                                0.579
## interventiongroupIntervention:timePoint_factor3 8.682e+02
##
                                                   Pr(>|t|)
                                                     <2e-16 ***
## (Intercept)
## interventiongroupIntervention
                                                     0.2181
## timePoint_factor2
                                                     0.5331
## timePoint_factor3
                                                     0.0221 *
## interventiongroupIntervention:timePoint_factor2
                                                     0.5627
## interventiongroupIntervention:timePoint_factor3
                                                     0.9587
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

```
##
## Correlation of Fixed Effects:
               (Intr) intrvI tmPn 2 tmPn 3 iI:P 2
## intrvntngrI -0.698
## tmPnt_fctr2 -0.554 0.386
## tmPnt fctr3 -0.561 0.391 0.471
## intrvnI:P 2 0.382 -0.548 -0.689 -0.325
## intrvnI:P_3 0.389 -0.558 -0.327 -0.694 0.467
Anova(cope_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
## Response: Copemean9_T
##
                                           Chisq Df Pr(>Chisq)
## (Intercept)
                                      11844.7831 1
                                                       < 2e-16 ***
## interventiongroup
                                          1.5187 1
                                                       0.21781
## timePoint_factor
                                          5.5240 2
                                                       0.06316 .
## interventiongroup:timePoint_factor
                                          0.3963 2
                                                       0.82026
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(cope_model, ~ interventiongroup * timePoint_factor), by = "timePoint_factor")
## timePoint factor contrast
                                              estimate
                     Control - Intervention 0.01469172 0.03020919 1167.94
## 2
  t.ratio p.value
      0.486 0.6268
##
cope_items_models <- lapply(cope_var_names, function(x) clmm(as.formula(paste0(x, ' ~ interventiongroup
cope_items_models[[2]] <- update(cope_items_models[[2]], . ~ interventiongroup * timePoint_factor + (1|</pre>
cope_items_models[[9]] <- update(cope_items_models[[9]], . ~ interventiongroup * timePoint_factor + (1|
cope_items_models[[11]] <- update(cope_items_models[[11]], . ~ interventiongroup * timePoint_factor + (</pre>
soc_coh_model <- lmer(SocCohmean7_T ~ interventiongroup * timePoint_factor + (1 loc_factor/ID_factor),
summary(soc_coh_model)
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
    to degrees of freedom [lmerMod]
## Formula:
## SocCohmean7_T ~ interventiongroup * timePoint_factor + (1 | loc_factor/ID_factor)
     Data: filtered
##
##
## REML criterion at convergence: 2207
##
## Scaled residuals:
      Min
               1Q Median
                                       Max
## -3.9139 -0.4999 0.0426 0.5809 2.7328
## Random effects:
## Groups
                         Name
                                     Variance Std.Dev.
## ID_factor:loc_factor (Intercept) 0.12010 0.34655
## loc_factor
                        (Intercept) 0.00169 0.04111
## Residual
                                     0.22313 0.47236
## Number of obs: 1311, groups: ID_factor:loc_factor, 479; loc_factor, 3
```

```
## Fixed effects:
##
                                                    Estimate Std. Error
## (Intercept)
                                                     3.71536
                                                              0.04426
## interventiongroupIntervention
                                                    -0.11872
                                                                0.05361
## timePoint_factor2
                                                    -0.03982
                                                                0.04454
## timePoint factor3
                                                     0.04372
                                                                0.04401
## interventiongroupIntervention:timePoint_factor2
                                                     0.16261
                                                                0.06470
## interventiongroupIntervention:timePoint_factor3
                                                     0.09889
                                                                0.06348
##
                                                          df t value
## (Intercept)
                                                     7.80000 83.946
## interventiongroupIntervention
                                                  1056.20000 -2.215
## timePoint_factor2
                                                   853.70000 -0.894
## timePoint_factor3
                                                   847.50000
                                                              0.994
## interventiongroupIntervention:timePoint_factor2 863.00000
                                                               2.513
## interventiongroupIntervention:timePoint_factor3 853.40000
                                                               1.558
##
                                                  Pr(>|t|)
## (Intercept)
                                                  7.81e-13 ***
## interventiongroupIntervention
                                                    0.0270 *
## timePoint_factor2
                                                    0.3715
## timePoint factor3
                                                    0.3207
## interventiongroupIntervention:timePoint_factor2
                                                    0.0121 *
## interventiongroupIntervention:timePoint_factor3
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
               (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.588
## tmPnt_fctr2 -0.460 0.380
## tmPnt_fctr3 -0.466 0.385 0.471
## intrvnI:P_2 0.317 -0.539 -0.688 -0.324
## intrvnI:P_3 0.323 -0.550 -0.327 -0.693 0.467
Anova(soc_coh_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
## Response: SocCohmean7_T
##
                                         Chisq Df Pr(>Chisq)
## (Intercept)
                                     7047.0036 1
                                                     < 2e-16 ***
                                        4.9040 1
## interventiongroup
                                                     0.02679 *
## timePoint_factor
                                        3.3734 2
                                                     0.18513
## interventiongroup:timePoint_factor
                                        6.5066 2
                                                     0.03865 *
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(soc_coh_model, ~ interventiongroup * timePoint_factor), by = "time"
                                                               SF.
                                                                       df
## timePoint factor contrast
                                              estimate
                     Control - Intervention -0.04389072 0.05761142 1140.16
## t.ratio p.value
    -0.762 0.4463
ptsd_model <- lmer(PTSDmean13_T ~ interventiongroup * timePoint_factor + (1 ID_factor), data = filtered
summary(ptsd_model)
```

```
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
##
     to degrees of freedom [lmerMod]
## Formula:
## PTSDmean13_T ~ interventiongroup * timePoint_factor + (1 | ID_factor)
      Data: filtered
##
## REML criterion at convergence: 2447.7
##
## Scaled residuals:
      Min
                                3Q
##
               1Q Median
                                       Max
## -3.2040 -0.5461 -0.1525 0.3982 4.5004
##
## Random effects:
                         Variance Std.Dev.
## Groups
             Name
## ID_factor (Intercept) 0.2271
                                  0.4765
                          0.2319
                                  0.4815
## Number of obs: 1314, groups: ID_factor, 480
## Fixed effects:
##
                                                     Estimate Std. Error
## (Intercept)
                                                     1.864094 0.043192
## interventiongroupIntervention
                                                    -0.032345
                                                               0.061906
## timePoint_factor2
                                                    -0.170766
                                                               0.045547
## timePoint factor3
                                                    -0.396880
                                                               0.044978
## interventiongroupIntervention:timePoint_factor2 -0.042882
                                                               0.066144
## interventiongroupIntervention:timePoint_factor3
                                                     0.007134
                                                                0.064849
                                                           df t value
## (Intercept)
                                                   902.600000 43.159
## interventiongroupIntervention
                                                   904.100000 -0.522
## timePoint_factor2
                                                   856.800000 -3.749
## timePoint_factor3
                                                   852.400000 -8.824
## interventiongroupIntervention:timePoint_factor2 864.200000 -0.648
## interventiongroupIntervention:timePoint_factor3 857.500000
                                                  Pr(>|t|)
## (Intercept)
                                                    < 2e-16 ***
## interventiongroupIntervention
                                                   0.601465
## timePoint factor2
                                                   0.000189 ***
## timePoint_factor3
                                                    < 2e-16 ***
## interventiongroupIntervention:timePoint_factor2 0.516949
## interventiongroupIntervention:timePoint_factor3 0.912433
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Correlation of Fixed Effects:
               (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.698
## tmPnt_fctr2 -0.479 0.334
## tmPnt_fctr3 -0.485 0.338 0.472
## intrvnI:P_2 0.330 -0.474 -0.689 -0.325
## intrvnI:P_3 0.336 -0.483 -0.327 -0.694 0.468
Anova(ptsd_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
```

##

```
## Response: PTSDmean13_T
##
                                        Chisq Df Pr(>Chisq)
## (Intercept)
                                     1862.6720 1
                                                     <2e-16 ***
## interventiongroup
                                       0.2730 1
                                                      0.6013
## timePoint_factor
                                       78.0841 2
                                                      <2e-16 ***
## interventiongroup:timePoint_factor
                                       0.6392 2
                                                      0.7264
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(ptsd_model, ~ interventiongroup * timePoint_factor), by = "timePoi
## timePoint factor contrast
                                             estimate
## 2
                    Control - Intervention 0.07522703 0.06579083 1008.51
## t.ratio p.value
     1.143 0.2531
pmhp_model <- lmer(PMHPmean13_T ~ interventiongroup * timePoint_factor + (1 ID_factor), data = filtered
summary(pmhp model)
## Linear mixed model fit by REML t-tests use Satterthwaite approximations
   to degrees of freedom [lmerMod]
## PMHPmean13_T ~ interventiongroup * timePoint_factor + (1 | ID_factor)
##
     Data: filtered
##
## REML criterion at convergence: 752.4
## Scaled residuals:
      Min
               1Q Median
                               3Q
## -3.0085 -0.4953 -0.1586 0.4021 6.1574
## Random effects:
## Groups Name
                        Variance Std.Dev.
## ID_factor (Intercept) 0.07942 0.2818
## Residual
                         0.05781 0.2404
## Number of obs: 1314, groups: ID_factor, 480
## Fixed effects:
                                                    Estimate Std. Error
## (Intercept)
                                                    1.421150 0.023619
## interventiongroupIntervention
                                                    0.001252 0.033849
## timePoint_factor2
                                                   -0.036286 0.022784
## timePoint_factor3
                                                   -0.106571
                                                              0.022493
## interventiongroupIntervention:timePoint_factor2
                                                   0.024473
                                                              0.033105
## interventiongroupIntervention:timePoint_factor3      0.027738
                                                              0.032442
##
                                                          df t value
                                                 810.300000 60.170
## (Intercept)
## interventiongroupIntervention
                                                  811.600000
                                                             0.037
## timePoint factor2
                                                  850.000000 -1.593
## timePoint factor3
                                                  846.500000 -4.738
## interventiongroupIntervention:timePoint_factor2 856.400000
                                                              0.739
## interventiongroupIntervention:timePoint_factor3 851.100000
##
                                                 Pr(>|t|)
## (Intercept)
                                                   < 2e-16 ***
## interventiongroupIntervention
                                                    0.971
```

```
## timePoint_factor2
                                                     0.112
## timePoint_factor3
                                                  2.53e-06 ***
## interventiongroupIntervention:timePoint factor2
                                                     0.460
## interventiongroupIntervention:timePoint_factor3
                                                     0.393
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Correlation of Fixed Effects:
##
              (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.698
## tmPnt_fctr2 -0.437 0.305
## tmPnt_fctr3 -0.442 0.309 0.472
## intrvnI:P_2 0.301 -0.432 -0.688 -0.325
## intrvnI:P_3 0.307 -0.440 -0.328 -0.693 0.469
Anova(pmhp_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
## Response: PMHPmean13_T
                                         Chisq Df Pr(>Chisq)
## (Intercept)
                                     3620.4321 1 < 2.2e-16 ***
## interventiongroup
                                        0.0014 1
                                                      0.9705
## timePoint_factor
                                       22.9857 2
                                                    1.02e-05 ***
## interventiongroup:timePoint_factor
                                       0.8777 2
                                                     0.6448
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(pmhp_model, ~ interventiongroup * timePoint_factor), by = "timePoi
## timePoint factor contrast
                                             estimate
## 2
                    Control - Intervention -0.0257253 0.03569828 914.83
## t.ratio p.value
   -0.721 0.4713
HSMH2aComfortseekhelpfutureT_model <- clmm(HSMH2aComfortseekhelpfutureT ~ interventiongroup * timePoi
summary(HSMH2aComfortseekhelpfutureT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
## formula:
## HSMH2aComfortseekhelpfutureT ~ interventiongroup * timePoint_factor +
       (1 | ID_factor)
           filtered
## data:
## link threshold nobs logLik AIC
                                         niter
                                                  max.grad cond.H
## logit flexible 1313 -1407.47 2832.93 749(2957) 5.33e-04 6.6e+01
##
## Random effects:
                         Variance Std.Dev.
## Groups
             Name
## ID_factor (Intercept) 1.833
## Number of groups: ID_factor 480
##
## Coefficients:
##
                                                  Estimate Std. Error
## interventiongroupIntervention
                                                  -0.07111 0.22491
```

```
## timePoint_factor2
                                                    0.22966
                                                              0.19265
## timePoint_factor3
                                                    0.20516
                                                              0.18903
## interventiongroupIntervention:timePoint factor2 -0.19450
                                                               0.27914
## interventiongroupIntervention:timePoint_factor3 -0.14643
                                                               0.27207
                                                  z value Pr(>|z|)
## interventiongroupIntervention
                                                    -0.316
                                                             0.752
## timePoint factor2
                                                     1.192
                                                             0.233
## timePoint factor3
                                                     1.085
                                                             0.278
## interventiongroupIntervention:timePoint_factor2 -0.697
                                                              0.486
## interventiongroupIntervention:timePoint_factor3 -0.538
                                                             0.590
## Threshold coefficients:
      Estimate Std. Error z value
                  0.2188 -16.621
## 1|2 -3.6370
## 2|3
       0.3155
                   0.1618
                           1.949
## 3|4
        2.7464
                   0.1919 14.310
## (127 observations deleted due to missingness)
Anova(HSMH2aComfortseekhelpfutureT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
##
## Response: HSMH2aComfortseekhelpfutureT
                                      LR Chisq Df Pr(>Chisq)
##
## interventiongroup
                                      0.00000 1
                                                      1.0000
                                      0.00000 2
                                                      1.0000
## timePoint_factor
## interventiongroup:timePoint_factor 0.54225 2
                                                      0.7625
summary(rbind(pairs(lsmeans::lsmeans(HSMH2aComfortseekhelpfutureT_model, ~ interventiongroup * timePoin
## timePoint factor contrast
                                                           SE df z.ratio
                                            estimate
## 2
                    Control - Intervention 0.265606 0.241412 NA
## p.value
    0.2712
##
HSDis2ComfortseekinghelpT_model <- clmm(HSDis2ComfortseekinghelpT ~ interventiongroup * timePoint_fact
summary(HSDis2ComfortseekinghelpT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
## formula:
## HSDis2ComfortseekinghelpT ~ interventiongroup * timePoint_factor +
       (1 | ID_factor)
           filtered
## data:
## link threshold nobs logLik
                                 AIC
                                         niter
                                                   max.grad cond.H
## logit flexible 1313 -1377.91 2773.83 761(2995) 1.71e-03 7.0e+01
##
## Random effects:
                         Variance Std.Dev.
## Groups
             Name
## ID_factor (Intercept) 1.936
## Number of groups: ID_factor 479
##
## Coefficients:
##
                                                  Estimate Std. Error
## interventiongroupIntervention
                                                  -0.30844
                                                              0.22862
```

```
## timePoint_factor2
                                                   -0.18794
                                                               0.19356
## timePoint_factor3
                                                   -0.09693
                                                               0.19067
## interventiongroupIntervention:timePoint_factor2 0.21253
                                                               0.28115
## interventiongroupIntervention:timePoint_factor3 -0.02051
                                                               0.27563
                                                   z value Pr(>|z|)
## interventiongroupIntervention
                                                    -1.349
                                                              0.177
## timePoint factor2
                                                    -0.971
                                                              0.332
## timePoint factor3
                                                    -0.508
                                                              0.611
## interventiongroupIntervention:timePoint_factor2
                                                     0.756
                                                              0.450
## interventiongroupIntervention:timePoint_factor3 -0.074
                                                              0.941
## Threshold coefficients:
      Estimate Std. Error z value
                  0.2428 -17.772
## 1 2 -4.3147
## 2|3 -0.1131
                   0.1638 -0.691
                    0.1878 13.019
## 3|4
        2.4448
## (127 observations deleted due to missingness)
Anova(HSDis2ComfortseekinghelpT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
##
## Response: HSDis2ComfortseekinghelpT
##
                                      LR Chisq Df Pr(>Chisq)
## interventiongroup
                                       0.00000 1
                                                      0.9999
                                       0.00000 2
                                                      1.0000
## timePoint_factor
## interventiongroup:timePoint_factor 0.81097 2
                                                      0.6667
summary(rbind(pairs(lsmeans::lsmeans(HSDis2ComfortseekinghelpT_model, ~ interventiongroup * timePoint_f
## timePoint factor contrast
                                              estimate
                                                              SE df z.ratio
## 2
                     Control - Intervention 0.09590667 0.2434839 NA
                                                                      0.394
##
   p.value
##
    0.6937
HGMH3KnowhowhelpT_model <- glmer(HGMH3KnowhowhelpT ~ interventiongroup * timePoint_factor + (1 ID_fact
summary(HGMH3KnowhowhelpT_model)
## Generalized linear mixed model fit by maximum likelihood (Laplace
     Approximation) [glmerMod]
## Family: binomial (logit)
## Formula: HGMH3KnowhowhelpT ~ interventiongroup * timePoint_factor + (1 |
##
       ID_factor)
      Data: filtered
##
##
##
        AIC
                 BIC
                      logLik deviance df.resid
##
     1373.7
              1409.9
                      -679.8
                               1359.7
                                           1301
##
## Scaled residuals:
      Min
                1Q Median
                                3Q
## -2.7402 0.2214 0.3649 0.4504 1.1248
##
## Random effects:
## Groups
             Name
                          Variance Std.Dev.
## ID_factor (Intercept) 1.705
## Number of obs: 1308, groups: ID_factor, 480
```

```
##
## Fixed effects:
                                                  Estimate Std. Error
##
                                                              0.20002
## (Intercept)
                                                   1.34033
## interventiongroupIntervention
                                                  -0.27542
                                                              0.26471
## timePoint factor2
                                                  -0.32956
                                                              0.23819
## timePoint factor3
                                                   1.09057
                                                              0.27742
## interventiongroupIntervention:timePoint_factor2  0.81575
                                                              0.35037
## interventiongroupIntervention:timePoint_factor3 0.01768
                                                              0.38309
##
                                                  z value Pr(>|z|)
## (Intercept)
                                                    6.701 2.07e-11 ***
## interventiongroupIntervention
                                                   -1.040
                                                            0.2981
## timePoint_factor2
                                                   -1.384
                                                            0.1665
## timePoint_factor3
                                                    3.931 8.46e-05 ***
## interventiongroupIntervention:timePoint_factor2 2.328
                                                            0.0199 *
## interventiongroupIntervention:timePoint_factor3
                                                    0.046
                                                            0.9632
## 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 -0.681
## tmPnt_fctr2 -0.594 0.439
## tmPnt_fctr3 -0.428 0.361 0.410
## intrvnI:P_2 0.423 -0.589 -0.682 -0.269
## intrvnI:P_3 0.355 -0.531 -0.303 -0.702 0.411
Anova(HGMH3KnowhowhelpT_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: HGMH3KnowhowhelpT
                                       Chisq Df Pr(>Chisq)
##
## (Intercept)
                                     44.9019 1 2.072e-11 ***
## interventiongroup
                                      1.0825 1
                                                   0.29813
## timePoint_factor
                                     26.2413 2 2.003e-06 ***
## interventiongroup:timePoint_factor 6.4207 2
                                                   0.04034 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(HGMH3KnowhowhelpT_model, ~ interventiongroup * timePoint_factor),
## timePoint_factor contrast
                                             estimate
                                                             SE df z.ratio
## 2
                     Control - Intervention -0.5403307 0.2889887 NA
## p.value
    0.0615
##
## Results are given on the log odds ratio (not the response) scale.
```

```
{r, cache = TRUE} #HGDis2WillinghelpT_model <- clmm(HGDis2WillinghelpT</pre>
~ interventiongroup * timePoint_factor + (1|loc_factor/ID_factor),
data = filtered) #summary(HGDis2WillinghelpT_model) #Anova(HGDis2WillinghelpT_model)
type = "III") #summary(rbind(pairs(lsmeans::lsmeans(HGDis2WillinghelpT_m
~ interventiongroup * timePoint_factor), by = "timePoint_factor"))[2])
#
HSMH2bGodsT_model <- glmer(HSMH2bGodsT ~ interventiongroup * timePoint_factor + (1 loc_factor/ID_factor
## Warning in checkConv(attr(opt, "derivs"), opt$par, ctrl = control
## $checkConv, : Model failed to converge with max|grad| = 0.0850544 (tol =
## 0.001, component 1)
summary(HSMH2bGodsT_model)
## Generalized linear mixed model fit by maximum likelihood (Laplace
   Approximation) [glmerMod]
## Family: binomial (logit)
## Formula:
## HSMH2bGodsT ~ interventiongroup * timePoint_factor + (1 | loc_factor/ID_factor)
     Data: filtered
##
##
       AIC
              BIC logLik deviance df.resid
     843.8
             885.2 -413.9
##
                              827.8
                                        1302
##
## Scaled residuals:
      Min
              1Q Median
                             30
## -0.9648 -0.4356 -0.2660 -0.0657 8.7760
## Random effects:
## Groups
                       Name
                                  Variance Std.Dev.
## ID_factor:loc_factor (Intercept) 1.0569167 1.028065
## loc_factor
                       (Intercept) 0.0000193 0.004393
## Number of obs: 1310, groups: ID_factor:loc_factor, 478; loc_factor, 3
##
## Fixed effects:
##
                                               Estimate Std. Error
## (Intercept)
                                               -5.28526
                                                          0.74650
## interventiongroupIntervention
                                                0.08307
                                                          1.01286
## timePoint_factor2
                                                3.94763
                                                          0.73894
## timePoint_factor3
                                                3.18462
                                                          0.74201
## interventiongroupIntervention:timePoint_factor2 -0.16477
                                                          1.03872
## interventiongroupIntervention:timePoint_factor3 -0.38842
                                               z value Pr(>|z|)
## (Intercept)
                                                -7.080 1.44e-12 ***
                                                 0.082
                                                         0.935
## interventiongroupIntervention
## timePoint factor2
                                                 5.342 9.18e-08 ***
## timePoint_factor3
                                                 4.292 1.77e-05 ***
## interventiongroupIntervention:timePoint_factor2 -0.159
                                                         0.874
## interventiongroupIntervention:timePoint_factor3 -0.369
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

```
##
## Correlation of Fixed Effects:
              (Intr) intrvI tmPn 2 tmPn 3 iI:P 2
## intrvntngrI -0.682
## tmPnt_fctr2 -0.957 0.679
## tmPnt fctr3 -0.940 0.675 0.936
## intrvnI:P 2 0.659 -0.965 -0.701 -0.659
## intrvnI:P_3 0.653 -0.952 -0.655 -0.702 0.929
## convergence code: 0
## Model failed to converge with max|grad| = 0.0850544 (tol = 0.001, component 1)
Anova(HSMH2bGodsT_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: HSMH2bGodsT
                                       Chisq Df Pr(>Chisq)
## (Intercept)
                                     50.1267 1 1.441e-12 ***
                                      0.0067 1
                                                    0.9346
## interventiongroup
                                     32.5347 2 8.614e-08 ***
## timePoint_factor
## interventiongroup:timePoint_factor 0.3842 2
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(HSMH2bGodsT_model, ~ interventiongroup * timePoint_factor), by = "
## timePoint_factor contrast
                                             estimate
                                                             SE df z.ratio
## 2
                    Control - Intervention 0.08169186 0.2727207 NA
                                                                       0.3
## p.value
   0.7645
##
## Results are given on the log odds ratio (not the response) scale.
HSMH2bPriestT_model <- glmer(HSMH2bPriestT ~ interventiongroup * timePoint_factor + (1 loc_factor/ID_f
summary(HSMH2bPriestT model)
## Generalized linear mixed model fit by maximum likelihood (Laplace
    Approximation) [glmerMod]
## Family: binomial (logit)
## Formula:
## HSMH2bPriestT ~ interventiongroup * timePoint_factor + (1 | loc_factor/ID_factor)
##
     Data: filtered
##
##
        AIC
                BIC
                     logLik deviance df.resid
                     -539.9
    1095.9
             1137.3
                               1079.9
                                          1302
##
## Scaled residuals:
      Min
               1Q Median
                               3Q
                                      Max
## -0.9060 -0.4329 -0.2018 -0.1350 7.4062
##
## Random effects:
## Groups
                        Name
                                    Variance Std.Dev.
## ID_factor:loc_factor (Intercept) 1.552e-09 3.94e-05
                        (Intercept) 2.312e-04 1.52e-02
## Number of obs: 1310, groups: ID_factor:loc_factor, 478; loc_factor, 3
##
```

```
## Fixed effects:
##
                                                  Estimate Std. Error
## (Intercept)
                                                  -0.42930
                                                              0.13082
## interventiongroupIntervention
                                                   0.22951
                                                              0.18583
## timePoint_factor2
                                                  -1.55443
                                                              0.24653
## timePoint factor3
                                                  -3.57355
                                                              0.52118
## interventiongroupIntervention:timePoint_factor2 0.08019
                                                              0.34331
## interventiongroupIntervention:timePoint_factor3  0.56952
                                                              0.64747
                                                  z value Pr(>|z|)
##
## (Intercept)
                                                   -3.281 0.00103 **
## interventiongroupIntervention
                                                    1.235 0.21682
## timePoint_factor2
                                                   -6.305 2.88e-10 ***
## timePoint_factor3
                                                   -6.857 7.05e-12 ***
## interventiongroupIntervention:timePoint_factor2 0.234 0.81530
## interventiongroupIntervention:timePoint_factor3     0.880     0.37907
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Correlation of Fixed Effects:
               (Intr) intrvI tmPn 2 tmPn 3 iI:P 2
## intrvntngrI -0.701
## tmPnt_fctr2 -0.528 0.371
## tmPnt_fctr3 -0.250 0.176 0.133
## intrvnI:P_2 0.379 -0.541 -0.718 -0.095
## intrvnI:P_3 0.201 -0.287 -0.107 -0.805 0.155
Anova(HSMH2bPriestT_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
## Response: HSMH2bPriestT
##
                                       Chisq Df Pr(>Chisq)
                                     10.7681 1
## (Intercept)
                                                  0.001033 **
                                      1.5253 1
                                                  0.216819
## interventiongroup
                                     76.6577 2 < 2.2e-16 ***
## timePoint_factor
## interventiongroup:timePoint_factor 0.7834 2
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(HSMH2bPriestT_model, ~ interventiongroup * timePoint_factor), by =
## timePoint_factor contrast
                                                            SE df z.ratio
                                            estimate
## 2
                    Control - Intervention -0.309701 0.2886866 NA -1.073
## p.value
##
   0.2834
##
## Results are given on the log odds ratio (not the response) scale.
HSMH2bNeighborsT_model <- glmer(HSMH2bNeighborsT ~ interventiongroup * timePoint_factor + (1|loc_factor
## Warning in checkConv(attr(opt, "derivs"), opt$par, ctrl = control
## $checkConv, : Model failed to converge with max|grad| = 0.00847964 (tol =
## 0.001, component 1)
summary(HSMH2bNeighborsT_model)
## Generalized linear mixed model fit by maximum likelihood (Laplace
```

```
Approximation) [glmerMod]
##
  Family: binomial (logit)
## Formula: HSMH2bNeighborsT ~ interventiongroup * timePoint_factor + (1 |
       loc_factor/ID_factor)
##
##
      Data: filtered
##
##
       AIC
                 BIC
                       logLik deviance df.resid
##
     1256.7
              1298.1
                       -620.4
                               1240.7
                                           1302
##
## Scaled residuals:
      Min
               1Q Median
                                3Q
                                       Max
  -3.0457 -0.7074 0.3284 0.4057
                                   1.5358
##
##
## Random effects:
                                     Variance Std.Dev.
## Groups
                         Name
   ID_factor:loc_factor (Intercept) 2.005e-01 0.44782
                         (Intercept) 4.187e-05 0.00647
## Number of obs: 1310, groups: ID_factor:loc_factor, 478; loc_factor, 3
##
## Fixed effects:
##
                                                   Estimate Std. Error
## (Intercept)
                                                   -0.61469
                                                               0.14306
## interventiongroupIntervention
                                                   -0.03309
                                                               0.20032
## timePoint factor2
                                                    2.25185
                                                               0.25178
## timePoint factor3
                                                    2.85879
                                                               0.28748
## interventiongroupIntervention:timePoint_factor2 0.55454
                                                               0.35627
## interventiongroupIntervention:timePoint_factor3 -0.06988
                                                               0.37133
                                                   z value Pr(>|z|)
## (Intercept)
                                                    -4.297 1.73e-05 ***
## interventiongroupIntervention
                                                    -0.165
                                                              0.869
## timePoint_factor2
                                                     8.944
                                                           < 2e-16 ***
## timePoint_factor3
                                                     9.944
                                                           < 2e-16 ***
## interventiongroupIntervention:timePoint_factor2
                                                     1.557
                                                              0.120
## interventiongroupIntervention:timePoint_factor3 -0.188
                                                              0.851
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Correlation of Fixed Effects:
               (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
##
## intrvntngrI -0.672
## tmPnt fctr2 -0.613 0.363
## tmPnt_fctr3 -0.549 0.317 0.435
## intrvnI:P_2 0.357 -0.539 -0.570 -0.170
## intrvnI:P_3 0.353 -0.517 -0.207 -0.643 0.292
## convergence code: 0
## Model failed to converge with max|grad| = 0.00847964 (tol = 0.001, component 1)
Anova(HSMH2bNeighborsT_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
## Response: HSMH2bNeighborsT
                                         Chisq Df Pr(>Chisq)
## (Intercept)
                                       18.4614 1 1.734e-05 ***
## interventiongroup
                                        0.0273 1
                                                      0.8688
```

```
## timePoint_factor
                                     125.1913 2 < 2.2e-16 ***
## interventiongroup:timePoint_factor
                                       2.8749 2
                                                     0.2375
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(HSMH2bNeighborsT_model, ~ interventiongroup * timePoint_factor), b
                                                             SE df z.ratio
## timePoint_factor contrast
                                             estimate
## 2
                    Control - Intervention -0.5214478 0.3000886 NA -1.738
## p.value
##
    0.0823
##
## Results are given on the log odds ratio (not the response) scale.
HSMH2bFamilyT_model <- glmer(HSMH2bFamilyT ~ interventiongroup * timePoint_factor + (1 loc_factor/ID_f
## Warning in checkConv(attr(opt, "derivs"), opt$par, ctrl = control
## $checkConv, : Model failed to converge with max|grad| = 0.0717647 (tol =
## 0.001, component 1)
## Warning in checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv, : Model is nearly unide:
## - Rescale variables?
summary(HSMH2bFamilyT_model)
## Generalized linear mixed model fit by maximum likelihood (Laplace
     Approximation) [glmerMod]
## Family: binomial (logit)
## Formula:
## HSMH2bFamilyT ~ interventiongroup * timePoint_factor + (1 | loc_factor/ID_factor)
     Data: filtered
##
##
##
       ATC
                BIC logLik deviance df.resid
     865.9
              907.3 -425.0
##
                                849.9
##
## Scaled residuals:
      Min
               1Q Median
                               3Q
                                      Max
## -41.392 -0.042 0.024
                            0.049 26.018
##
## Random effects:
## Groups
                        Name
                                    Variance Std.Dev.
## ID_factor:loc_factor (Intercept) 44.08801 6.6399
                         (Intercept) 0.04938 0.2222
## Number of obs: 1311, groups: ID_factor:loc_factor, 479; loc_factor, 3
##
## Fixed effects:
                                                    Estimate Std. Error
##
## (Intercept)
                                                   -6.3951978 0.0009856
## interventiongroupIntervention
                                                   0.5930689 0.0009855
## timePoint_factor2
                                                   12.3696681 0.0009857
## timePoint_factor3
                                                   13.8022820 0.0009857
## interventiongroupIntervention:timePoint_factor2 -0.6711345 0.0009855
## interventiongroupIntervention:timePoint_factor3 -1.3186330 0.0009855
##
                                                   z value Pr(>|z|)
## (Intercept)
                                                     -6489
                                                            <2e-16 ***
## interventiongroupIntervention
                                                       602
                                                            <2e-16 ***
## timePoint_factor2
                                                    12549
                                                            <2e-16 ***
```

```
## timePoint factor3
                                                    14003
                                                           <2e-16 ***
## interventiongroupIntervention:timePoint_factor2
                                                    -681
                                                           <2e-16 ***
## interventiongroupIntervention:timePoint_factor3 -1338
                                                           <2e-16 ***
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
              (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
##
## intrvntngrI 0.000
## tmPnt_fctr2 0.000 0.000
## tmPnt_fctr3 0.000 0.000 0.000
## intrvnI:P_2 0.000 0.000 0.000 0.000
## intrvnI:P_3 0.000 0.000 0.000 0.000 0.000
## convergence code: 0
## Model failed to converge with max|grad| = 0.0717647 (tol = 0.001, component 1)
## Model is nearly unidentifiable: very large eigenvalue
## - Rescale variables?
Anova(HSMH2bFamilyT_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: HSMH2bFamilyT
##
                                         Chisq Df Pr(>Chisq)
## (Intercept)
                                      42105867 1 < 2.2e-16 ***
                                        362144 1 < 2.2e-16 ***
## interventiongroup
## timePoint factor
                                     353506610 2 < 2.2e-16 ***
## interventiongroup:timePoint_factor
                                       2254009 2 < 2.2e-16 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(HSMH2bFamilyT_model, ~ interventiongroup * timePoint_factor), by =
## timePoint_factor contrast
                                             estimate
                                                              SE df z.ratio
## 2
                    Control - Intervention 0.07806559 0.001393732 NA 56.012
## p.value
   <.0001
##
##
## Results are given on the log odds ratio (not the response) scale.
HSMH2bFriendsT_model <- glmer(HSMH2bFriendsT ~ interventiongroup * timePoint_factor + (1 loc_factor/ID
summary(HSMH2bFriendsT_model)
## Generalized linear mixed model fit by maximum likelihood (Laplace
    Approximation) [glmerMod]
## Family: binomial (logit)
## Formula: HSMH2bFriendsT ~ interventiongroup * timePoint_factor + (1 |
##
      loc_factor/ID_factor)
##
     Data: filtered
##
##
       AIC
                BIC logLik deviance df.resid
##
    1143.7
             1185.2 -563.9
                              1127.7
                                          1302
##
## Scaled residuals:
           1Q Median
                               3Q
##
      Min
                                      Max
## -2.0927 -0.2426 -0.1656 0.5920 6.0045
```

```
##
## Random effects:
## Groups
                                    Variance Std.Dev.
                        Name
## ID_factor:loc_factor (Intercept) 0.15997 0.4000
## loc factor
                        (Intercept) 0.09376 0.3062
## Number of obs: 1310, groups: ID_factor:loc_factor, 478; loc_factor, 3
## Fixed effects:
##
                                                  Estimate Std. Error
                                                  -3.08149
                                                              0.36316
## (Intercept)
## interventiongroupIntervention
                                                  -0.13463
                                                              0.44676
## timePoint_factor2
                                                   4.11737
                                                              0.37048
## timePoint_factor3
                                                   4.30953
                                                              0.37470
## interventiongroupIntervention:timePoint_factor2 0.07171
                                                              0.49998
## interventiongroupIntervention:timePoint_factor3 -0.02212
                                                              0.50048
##
                                                  z value Pr(>|z|)
## (Intercept)
                                                   -8.485
                                                            <2e-16 ***
## interventiongroupIntervention
                                                   -0.301
                                                             0.763
## timePoint_factor2
                                                   11.114
                                                            <2e-16 ***
## timePoint factor3
                                                   11.501
                                                            <2e-16 ***
## interventiongroupIntervention:timePoint_factor2
                                                    0.143
                                                             0.886
## interventiongroupIntervention:timePoint_factor3 -0.044
                                                             0.965
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##
               (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.562
## tmPnt_fctr2 -0.781 0.548
## tmPnt_fctr3 -0.777 0.542 0.820
## intrvnI:P_2 0.503 -0.888 -0.627 -0.490
## intrvnI:P_3 0.505 -0.887 -0.499 -0.631 0.794
Anova(HSMH2bFriendsT_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
##
## Response: HSMH2bFriendsT
##
                                        Chisq Df Pr(>Chisq)
## (Intercept)
                                      71.9980 1
                                                     <2e-16 ***
## interventiongroup
                                       0.0908 1
                                                     0.7631
## timePoint_factor
                                     140.9304 2
                                                     <2e-16 ***
## interventiongroup:timePoint_factor
                                       0.0882 2
                                                     0.9569
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(HSMH2bFriendsT_model, ~ interventiongroup * timePoint_factor), by *
                                                             SE df z.ratio
## timePoint_factor contrast
                                             estimate
                    Control - Intervention 0.06292598 0.2299623 NA
## p.value
##
    0.7844
##
## Results are given on the log odds ratio (not the response) scale.
```

```
HSMH2bHospT_model <- glmer(HSMH2bHospT ~ interventiongroup * timePoint_factor + (1 loc_factor/ID_factor
## Warning in checkConv(attr(opt, "derivs"), opt$par, ctrl = control
## $checkConv, : unable to evaluate scaled gradient
## Warning in checkConv(attr(opt, "derivs"), opt$par, ctrl = control
## $checkConv, : Model failed to converge: degenerate Hessian with 2 negative
## eigenvalues
summary(HSMH2bHospT_model)
## Warning in vcov.merMod(object, use.hessian = use.hessian): variance-covariance matrix computed from
## not positive definite or contains NA values: falling back to var-cov estimated from RX
## Warning in vcov.merMod(object, correlation = correlation, sigm = sig): variance-covariance matrix co
## not positive definite or contains NA values: falling back to var-cov estimated from RX
## Generalized linear mixed model fit by maximum likelihood (Laplace
    Approximation) [glmerMod]
## Family: binomial ( logit )
## Formula:
## HSMH2bHospT ~ interventiongroup * timePoint_factor + (1 | loc_factor/ID_factor)
##
     Data: filtered
##
##
                       logLik deviance df.resid
        AIC
                 BIC
##
     1093.2
              1134.6
                     -538.6
                               1077.2
                                           1302
##
## Scaled residuals:
       Min
                 1Q
                     Median
                                    3Q
## -0.93093 -0.70653 -0.00004 -0.00003 1.54759
##
## Random effects:
## Groups
                         Name
                                     Variance Std.Dev.
## ID_factor:loc_factor (Intercept) 0.06213 0.2493
                         (Intercept) 0.02012 0.1419
## Number of obs: 1310, groups: ID_factor:loc_factor, 478; loc_factor, 3
## Fixed effects:
##
                                                     Estimate Std. Error
## (Intercept)
                                                    -20.45684 1755.47469
## interventiongroupIntervention
                                                     -0.04440 2551.25844
## timePoint_factor2
                                                     19.96194 1755.47469
## timePoint_factor3
                                                     19.65848 1755.47469
## interventiongroupIntervention:timePoint_factor2
                                                      0.23527 2551.25845
## interventiongroupIntervention:timePoint_factor3
                                                      0.06033 2551.25845
##
                                                   z value Pr(>|z|)
## (Intercept)
                                                    -0.012
                                                              0.991
## interventiongroupIntervention
                                                     0.000
                                                              1.000
## timePoint factor2
                                                     0.011
                                                              0.991
## timePoint factor3
                                                     0.011
                                                              0.991
## interventiongroupIntervention:timePoint_factor2
                                                     0.000
                                                              1.000
## interventiongroupIntervention:timePoint_factor3
                                                     0.000
                                                              1.000
##
## Correlation of Fixed Effects:
##
               (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.688
```

```
## tmPnt_fctr2 -1.000 0.688
## tmPnt_fctr3 -1.000 0.688 1.000
## intrvnI:P_2 0.688 -1.000 -0.688 -0.688
## intrvnI:P_3  0.688 -1.000 -0.688 -0.688  1.000
## convergence code: 0
## unable to evaluate scaled gradient
## Model failed to converge: degenerate Hessian with 2 negative eigenvalues
Anova(HSMH2bHospT model, type = "III")
## Warning in vcov.merMod(mod, complete = FALSE): variance-covariance matrix computed from finite-diffe
## not positive definite or contains NA values: falling back to var-cov estimated from RX
## Warning in vcov.merMod(mod, complete = FALSE): variance-covariance matrix computed from finite-diffe
## not positive definite or contains NA values: falling back to var-cov estimated from RX
## Analysis of Deviance Table (Type III Wald chisquare tests)
## Response: HSMH2bHospT
                                       Chisq Df Pr(>Chisq)
## (Intercept)
                                      0.0001 1
                                                    0.9907
## interventiongroup
                                      0.0000 1
                                                    1.0000
## timePoint_factor
                                      2.2587 2
                                                    0.3232
## interventiongroup:timePoint_factor 0.3598 2
                                                    0.8353
summary(rbind(pairs(lsmeans::lsmeans(HSMH2bHospT_model, ~ interventiongroup * timePoint_factor), by = "
## Warning in vcov.merMod(object, correlation = FALSE): variance-covariance matrix computed from finite
\#\# not positive definite or contains NA values: falling back to var-cov estimated from RX
                                                              SE df z.ratio
## timePoint_factor contrast
                                              estimate
                     Control - Intervention -0.1908741 0.2049316 NA -0.931
## 2
## p.value
##
    0.3516
##
## Results are given on the log odds ratio (not the response) scale.
HSMH2bCBMHT_model <- glmer(HSMH2bCBMHT ~ interventiongroup * timePoint_factor + (1 loc_factor/ID_factor
## Warning in checkConv(attr(opt, "derivs"), opt$par, ctrl = control
## $checkConv, : Model failed to converge with max|grad| = 0.423612 (tol =
## 0.001, component 1)
summary(HSMH2bCBMHT model)
## Generalized linear mixed model fit by maximum likelihood (Laplace
     Approximation) [glmerMod]
## Family: binomial (logit)
## Formula:
## HSMH2bCBMHT ~ interventiongroup * timePoint_factor + (1 | loc_factor/ID_factor)
##
     Data: filtered
##
##
       AIC
                BIC
                      logLik deviance df.resid
##
      568.9
               610.3
                     -276.4
                                 552.9
                                           1302
##
## Scaled residuals:
      Min
               1Q Median
                                3Q
## -0.7319 -0.1591 -0.0804 -0.0614 13.0761
```

```
##
## Random effects:
## Groups
                        Name
                                    Variance Std.Dev.
## ID_factor:loc_factor (Intercept) 1.2500824 1.11807
## loc factor
                        (Intercept) 0.0006669 0.02582
## Number of obs: 1310, groups: ID_factor:loc_factor, 478; loc_factor, 3
## Fixed effects:
##
                                                  Estimate Std. Error
## (Intercept)
                                                   -5.3755
                                                               0.8696
## interventiongroupIntervention
                                                   -0.5771
                                                               1.2295
## timePoint_factor2
                                                    3.8765
                                                               0.7677
## timePoint_factor3
                                                    0.5341
                                                               0.9314
## interventiongroupIntervention:timePoint_factor2
                                                    0.6408
                                                               1.2509
## interventiongroupIntervention:timePoint_factor3
                                                    0.9549
                                                               1.4498
##
                                                  z value Pr(>|z|)
## (Intercept)
                                                   -6.182 6.33e-10 ***
## interventiongroupIntervention
                                                   -0.469
                                                             0.639
## timePoint_factor2
                                                    5.049 4.43e-07 ***
## timePoint factor3
                                                    0.573
                                                             0.566
## interventiongroupIntervention:timePoint_factor2
                                                    0.512
                                                             0.608
## interventiongroupIntervention:timePoint_factor3
                                                    0.659
                                                             0.510
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##
               (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.491
## tmPnt_fctr2 -0.917 0.552
## tmPnt_fctr3 -0.645 0.456 0.731
## intrvnI:P_2 0.473 -0.974 -0.573 -0.448
## intrvnI:P_3 0.414 -0.840 -0.469 -0.642 0.826
## convergence code: 0
## Model failed to converge with max|grad| = 0.423612 (tol = 0.001, component 1)
Anova(HSMH2bCBMHT_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
## Response: HSMH2bCBMHT
##
                                       Chisq Df Pr(>Chisq)
## (Intercept)
                                     38.2163 1 6.332e-10 ***
## interventiongroup
                                      0.2203 1
                                                    0.6388
## timePoint factor
                                     46.3766 2 8.500e-11 ***
## interventiongroup:timePoint_factor 0.4370 2
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(HSMH2bCBMHT_model, ~ interventiongroup * timePoint_factor), by = "
## timePoint_factor contrast
                                              estimate
                                                             SE df z.ratio
## 2
                    Control - Intervention -0.06368375 0.281289 NA -0.226
## p.value
##
    0.8209
##
```

```
## Results are given on the log odds ratio (not the response) scale.
HSMH3FaultsadnessT_model <- glmer(HSMH3FaultsadnessT ~ interventiongroup * timePoint_factor + (1|ID_f
summary(HSMH3FaultsadnessT_model)
## Generalized linear mixed model fit by maximum likelihood (Laplace
     Approximation) [glmerMod]
## Family: binomial ( logit )
## Formula: HSMH3FaultsadnessT ~ interventiongroup * timePoint_factor + (1 |
##
      ID factor)
##
     Data: filtered
##
##
       AIC
                BIC logLik deviance df.resid
             1476.3 -713.0
                              1426.0
##
     1440.0
                                           1307
##
## Scaled residuals:
      Min
               1Q Median
                               3Q
                                      Max
## -2.1787 -0.6094 0.3484 0.4286 1.0953
## Random effects:
## Groups
                         Variance Std.Dev.
             Name
## ID_factor (Intercept) 1.93
                                  1.389
## Number of obs: 1314, groups: ID_factor, 480
##
## Fixed effects:
                                                   Estimate Std. Error
##
## (Intercept)
                                                    1.6258
                                                               0.2126
## interventiongroupIntervention
                                                    0.4130
                                                               0.2914
## timePoint_factor2
                                                   -0.2058
                                                               0.2492
## timePoint_factor3
                                                    -0.6151
                                                               0.2426
## interventiongroupIntervention:timePoint_factor2 -0.3220
                                                               0.3695
## interventiongroupIntervention:timePoint_factor3 -0.1585
                                                               0.3572
##
                                                  z value Pr(>|z|)
## (Intercept)
                                                    7.648 2.05e-14 ***
## interventiongroupIntervention
                                                    1.417
                                                            0.1564
## timePoint_factor2
                                                   -0.826
                                                            0.4090
## timePoint_factor3
                                                   -2.535
                                                            0.0112 *
## interventiongroupIntervention:timePoint_factor2 -0.871
                                                            0.3835
## interventiongroupIntervention:timePoint_factor3 -0.444
                                                            0.6573
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Correlation of Fixed Effects:
##
               (Intr) intrvI tmPn_2 tmPn_3 iI:P_2
## intrvntngrI -0.593
## tmPnt_fctr2 -0.573 0.404
## tmPnt_fctr3 -0.621 0.413 0.499
## intrvnI:P_2 0.365 -0.616 -0.672 -0.330
## intrvnI:P_3 0.383 -0.640 -0.335 -0.667 0.508
Anova(HSMH3FaultsadnessT_model, type = "III")
## Analysis of Deviance Table (Type III Wald chisquare tests)
## Response: HSMH3FaultsadnessT
```

```
##
                                      Chisq Df Pr(>Chisq)
## (Intercept)
                                    58.4879 1 2.045e-14 ***
## interventiongroup
                                     2.0087 1
                                                  0.15639
## timePoint_factor
                                     6.6854 2
                                                  0.03534 *
## interventiongroup:timePoint_factor 0.7595 2
                                                  0.68404
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
summary(rbind(pairs(lsmeans::lsmeans(HSMH3FaultsadnessT_model, ~ interventiongroup * timePoint_factor),
## timePoint_factor contrast
                                             estimate
                                                            SE df z.ratio
                    Control - Intervention -0.09099204 0.2981012 NA -0.305
## 2
## p.value
##
   0.7602
##
## Results are given on the log odds ratio (not the response) scale.
```

```
{r, cache = TRUE} # HSMH4CausesadnessGodT_model <- glmer(HSMH4CausesadnessGodT_model <- glmer(HSMH4CausesadnessGodT_m
~ interventiongroup * timePoint_factor + (1|loc_factor/ID_factor),
data = filtered, family = "binomial") # summary(HSMH4CausesadnessGodT_mc
# Anova(HSMH4CausesadnessGodT_model, type = "III") # summary(rbind(pairs
~ interventiongroup * timePoint_factor), by = "timePoint_factor"))[2])
#
{r, cache = TRUE} # HSMH4CausesadnessThinkingT_model <- glmer(HSMH4CausesadnessThinkingT_model <- glmer(HSMH4
~ interventiongroup * timePoint_factor + (1|loc_factor/ID_factor),
data = filtered, family = "binomial") # summary(HSMH4CausesadnessThinking
# Anova(HSMH4CausesadnessThinkingT_model, type = "III") # summary(rbind(
~ interventiongroup * timePoint_factor), by = "timePoint_factor"))[2])
{r, cache = TRUE} # HSMH4CausesadnessCurseT_model <- glmer(HSMH4Causesa</pre>
~ interventiongroup * timePoint_factor + (1|loc_factor/ID_factor),
data = filtered, family = "binomial") # summary(HSMH4CausesadnessCurseT_
# Anova(HSMH4CausesadnessCurseT_model, type = "III") # summary(rbind(pai
~ interventiongroup * timePoint_factor), by = "timePoint_factor"))[2])
#
{r, cache = TRUE} # HSMH4CausesadnessTraumaStressT_model <-</pre>
glmer(HSMH4CausesadnessTraumaStressT ~ interventiongroup *
timePoint_factor + (1|loc_factor/ID_factor), data = filtered,
family = "binomial") # summary(HSMH4CausesadnessTraumaStressT_model)
# Anova(HSMH4CausesadnessTraumaStressT_model, type = "III") #
summary(rbind(pairs(lsmeans::lsmeans(HSMH4CausesadnessTraumaStressT_mode
~ interventiongroup * timePoint_factor), by = "timePoint_factor"))[2])
#
{r, cache = TRUE} # HSMH4CausesadnessBrainT_model <- glmer(HSMH4Causesa</pre>
~ interventiongroup * timePoint_factor + (1|loc_factor/ID_factor),
data = filtered, family = "binomial") # summary(HSMH4CausesadnessBrainT_
# Anova(HSMH4CausesadnessBrainT_model, type = "III") # summary(rbind(pai
~ interventiongroup * timePoint_factor), by = "timePoint_factor"))[2])
#
{r, cache = TRUE} # HSMH4CausesadnessDeservedT_model <- glmer(HSMH4Caus</pre>
~ interventiongroup * timePoint<sup>8</sup>factor + (1|loc_factor/ID_factor),
```

data = filtered, family = "binomial") # summary(HSMH4CausesadnessDeserved
Anova(HSMH4CausesadnessDeservedT_model, type = "III") # summary(rbind)

```
summary(HSMH1aSeekhelplast6monthsT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## HSMH1aSeekhelplast6monthsT ~ interventiongroup * timePoint_factor +
       (1 | ID factor)
           filtered
## data:
##
## link threshold nobs logLik AIC
                                       niter
                                                  max.grad cond.H
## logit flexible 835 -367.61 749.22 386(2349) 2.83e-05 8.7e+02
##
## Random effects:
## Groups
                          Variance Std.Dev.
             Name
## ID_factor (Intercept) 26.33
                                   5.131
## Number of groups: ID_factor 447
##
## Coefficients:
##
                                                    Estimate Std. Error
## interventiongroupIntervention
                                                    0.517229 0.563417
## timePoint_factor3
                                                    0.007868
                                                               0.411381
## interventiongroupIntervention:timePoint_factor3 -0.518596
                                                               0.580457
##
                                                   z value Pr(>|z|)
## interventiongroupIntervention
                                                     0.918
                                                              0.359
## timePoint factor3
                                                     0.019
                                                              0.985
## interventiongroupIntervention:timePoint_factor3 -0.893
                                                              0.372
##
## Threshold coefficients:
      Estimate Std. Error z value
                   0.7627
## 1|2
        5.9376
                            7.785
## 2|3
                   0.8933
                            9.004
       8.0434
## 3|4 12.4660
                    1.4879
                            8.378
## (605 observations deleted due to missingness)
Anova(HSMH1aSeekhelplast6monthsT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
##
## Response: HSMH1aSeekhelplast6monthsT
                                      LR Chisq Df Pr(>Chisq)
## interventiongroup
                                       0.01689 1
                                                      0.8966
                                                      0.8706
## timePoint_factor
                                       0.02652 1
## interventiongroup:timePoint_factor 0.80425 1
                                                      0.3698
summary(rbind(pairs(lsmeans::lsmeans(HSMH1aSeekhelplast6monthsT_model, ~ interventiongroup * timePoint_
                                                               SE df z.ratio
## timePoint_factor contrast
                                               estimate
## 3
                     Control - Intervention 0.001367062 0.5836993 NA
## p.value
   0.9981
```

HSMH1aSeekhelplast6monthsT_model <- clmm(HSMH1aSeekhelplast6monthsT ~ interventiongroup * timePoint_fa

```
{r, cache = TRUE} # HSMH1bGodsT_model <- clmm(HSMH1bGodsT ~</pre>
interventiongroup * timePoint_factor + (1|loc_factor/ID_factor),
data = filtered) # summary(HSMH1bGodsT_model) # Anova(HSMH1bGodsT_model,
type = "III") # summary(rbind(pairs(lsmeans::lsmeans(HSMH1bGodsT_model,
~ interventiongroup * timePoint_factor), by = "timePoint_factor"))[2])
#
{r, cache = TRUE} # HSMH1bPriestT_model <- clmm(HSMH1bPriestT</pre>
~ interventiongroup * timePoint_factor + (1|loc_factor/ID_factor),
data = filtered) # summary(HSMH1bPriestT_model) # Anova(HSMH1bPriestT_model)
type = "III") # summary(rbind(pairs(lsmeans::lsmeans(HSMH1bPriestT_mode)
~ interventiongroup * timePoint_factor), by = "timePoint_factor"))[2])
{r, cache = TRUE} # HSMH1bNeighborsT_model <- clmm(HSMH1bNeighborsT</pre>
~ interventiongroup * timePoint_factor + (1|loc_factor/ID_factor),
data = filtered) # summary(HSMH1bNeighborsT_model) # Anova(HSMH1bNeighborsT_model) # Anova(HSMH1bNeighborsT_model)
type = "III") # summary(rbind(pairs(lsmeans::lsmeans(HSMH1bNeighborsT_mc
~ interventiongroup * timePoint_factor), by = "timePoint_factor"))[2])
#
{r, cache = TRUE} # HSMH1bFamilyT_model <- clmm(HSMH1bFamilyT</pre>
~ interventiongroup * timePoint_factor + (1|loc_factor/ID_factor),
data = filtered) # summary(HSMH1bFamilyT_model) # Anova(HSMH1bFamilyT_model)
type = "III") # summary(rbind(pairs(lsmeans::lsmeans(HSMH1bFamilyT_model
~ interventiongroup * timePoint_factor), by = "timePoint_factor"))[2])
#
{r, cache = TRUE} # HSMH1bFriendsT_model <- clmm(HSMH1bFriendsT</pre>
~ interventiongroup * timePoint_factor + (1|loc_factor/ID_factor),
data = filtered) # summary(HSMH1bFriendsT_model) # Anova(HSMH1bFriendsT_
type = "III") # summary(rbind(pairs(lsmeans::lsmeans(HSMH1bFriendsT_mode
~ interventiongroup * timePoint_factor), by = "timePoint_factor"))[2])
```

```
HSDis1Seekhelplast6monthsT_model <- clmm(HSDis1Seekhelplast6monthsT ~ interventiongroup * timePoint_fa
summary(HSDis1Seekhelplast6monthsT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## HSDis1Seekhelplast6monthsT ~ interventiongroup * timePoint_factor +
       (1 | loc factor/ID factor)
           filtered
## data:
##
## link threshold nobs logLik AIC
                                       niter
                                                 max.grad cond.H
## logit flexible 833 -593.89 1201.79 360(481) 3.80e-03 1.5e+02
##
## Random effects:
                                    Variance Std.Dev.
## Groups
                        Name
## ID_factor:loc_factor (Intercept) 5.88e-09 7.668e-05
                         (Intercept) 2.54e-10 1.594e-05
## loc_factor
## Number of groups: ID_factor:loc_factor 446, loc_factor 3
##
## Coefficients:
##
                                                  Estimate Std. Error
## interventiongroupIntervention
                                                  -0.14718
                                                              0.19464
## timePoint factor3
                                                   1.62135
                                                              0.23145
## interventiongroupIntervention:timePoint_factor3 -0.02818
                                                              0.32757
                                                  z value Pr(>|z|)
## interventiongroupIntervention
                                                   -0.756
                                                             0.450
## timePoint_factor3
                                                    7.005 2.47e-12 ***
## interventiongroupIntervention:timePoint_factor3 -0.086
                                                             0.931
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
       Estimate Std. Error z value
## 0|1 -0.5086
                   0.1374 - 3.703
## 1|2 -0.1507
                   0.1359 -1.109
## (607 observations deleted due to missingness)
Anova(HSDis1Seekhelplast6monthsT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
## Response: HSDis1Seekhelplast6monthsT
                                      LR Chisq Df Pr(>Chisq)
## interventiongroup
                                     0.0000000 1
                                                      1.0000
## timePoint_factor
                                     0.0000000 1
                                                      1.0000
## interventiongroup:timePoint factor 0.0074032 1
                                                      0.9314
summary(rbind(pairs(lsmeans::lsmeans(HSDis1Seekhelplast6monthsT_model, ~ interventiongroup * timePoint_
## timePoint factor contrast
                                                            SE df z.ratio
                                            estimate
                    Control - Intervention 0.1753626 0.2634722 NA 0.666
## p.value
   0.5057
```

```
HGMH1Helpedsomeonelast6monthsT_model <- clmm(HGMH1Helpedsomeonelast6monthsT ~ interventiongroup * time
summary(HGMH1Helpedsomeonelast6monthsT_model)
## Cumulative Link Mixed Model fitted with the Laplace approximation
##
## formula:
## HGMH1Helpedsomeonelast6monthsT ~ interventiongroup * timePoint_factor +
       (1 | ID_factor)
           filtered
## data:
##
## link threshold nobs logLik AIC
                                        niter
                                                 max.grad cond.H
## logit flexible 834 -674.68 1361.36 273(556) 3.84e-05 9.5e+01
##
## Random effects:
## Groups
             Name
                         Variance Std.Dev.
## ID_factor (Intercept) 0.3444
                                 0.5869
## Number of groups: ID_factor 447
## Coefficients:
##
                                                  Estimate Std. Error
## interventiongroupIntervention
                                                   0.03290
                                                              0.20850
## timePoint factor3
                                                   1.48717
                                                              0.22652
## interventiongroupIntervention:timePoint_factor3 -0.04553
                                                              0.31047
                                                  z value Pr(>|z|)
## interventiongroupIntervention
                                                    0.158
                                                             0.875
## timePoint factor3
                                                    6.565 5.19e-11 ***
## interventiongroupIntervention:timePoint_factor3 -0.147
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Threshold coefficients:
      Estimate Std. Error z value
## 0|1 -0.52439
                  0.14950 -3.508
## 1|2 0.06452
                  0.14626 0.441
## (606 observations deleted due to missingness)
Anova(HGMH1Helpedsomeonelast6monthsT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
## Response: HGMH1Helpedsomeonelast6monthsT
##
                                     LR Chisq Df Pr(>Chisq)
## interventiongroup
                                     0.000000 1
                                                     1.0000
## timePoint_factor
                                     0.000000 1
                                                     1.0000
## interventiongroup:timePoint_factor 0.021504 1
                                                     0.8834
summary(rbind(pairs(lsmeans::lsmeans(HGMH1Helpedsomeonelast6monthsT_model, ~ interventiongroup * timePo
## timePoint_factor contrast
                                             estimate
                                                            SE df z.ratio
## 3
                    Control - Intervention 0.01262922 0.243431 NA 0.052
## p.value
    0.9586
```

summary(HGDis1Helpedlast6monthsT_model)

HGDis1Helpedlast6monthsT_model <- clmm(HGDis1Helpedlast6monthsT ~ interventiongroup * timePoint_factor

```
##
## HGDis1Helpedlast6monthsT ~ interventiongroup * timePoint_factor +
       (1 | loc_factor/ID_factor)
           filtered
## data:
##
## link threshold nobs logLik AIC
                                      niter
                                                  max.grad cond.H
## logit flexible 833 -556.31 1126.62 348(1045) 2.29e-05 3.1e+02
##
## Random effects:
## Groups
                        Name
                                    Variance Std.Dev.
## ID_factor:loc_factor (Intercept) 0.02426  0.1557
                         (Intercept) 0.09424 0.3070
## Number of groups: ID_factor:loc_factor 446, loc_factor 3
##
## Coefficients:
##
                                                  Estimate Std. Error
## interventiongroupIntervention
                                                   0.05711
                                                              0.20262
## timePoint factor3
                                                   1.87983
                                                              0.25748
## interventiongroupIntervention:timePoint_factor3 -0.18922
                                                              0.34921
                                                  z value Pr(>|z|)
## interventiongroupIntervention
                                                    0.282
                                                             0.778
## timePoint factor3
                                                    7.301 2.86e-13 ***
## interventiongroupIntervention:timePoint_factor3 -0.542
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Threshold coefficients:
      Estimate Std. Error z value
## 0|1 -0.5738
                   0.2287 - 2.510
## 1|2 -0.1584
                   0.2260 -0.701
## (607 observations deleted due to missingness)
Anova(HGDis1Helpedlast6monthsT_model, type = "III")
## Analysis of Deviance Table (Type II tests)
##
## Response: HGDis1Helpedlast6monthsT
                                     LR Chisq Df Pr(>Chisq)
## interventiongroup
                                      0.00000 1
                                                     1.0000
## timePoint_factor
                                      0.00000 1
                                                     1.0000
## interventiongroup:timePoint_factor 0.29376 1
                                                     0.5878
summary(rbind(pairs(lsmeans::lsmeans(HGDis1Helpedlast6monthsT_model, ~ interventiongroup * timePoint_fa
## timePoint_factor contrast
                                                           SE df z.ratio
                                           estimate
## 3
                    Control - Intervention 0.132117 0.2851515 NA
## p.value
    0.6431
models <- list(BDI_model, DP_model, DP_95_model, self_eff_model, SelfEff1timeT_model, SelfEff2affordT_m
models_t2t3_only <- list(HSMH1aSeekhelplast6monthsT_model, HSDis1Seekhelplast6monthsT_model, HGMH1Help
dv_titles <- c('BDI','Disaster preparation','Dis prep 95', 'Self efficacy','Self eff 1 - time', 'Self e
```

Cumulative Link Mixed Model fitted with the Laplace approximation

```
dv_titles_t2t3_only <- c('*HSMH1a - Seek help last 6 months', '*HSDis1 - Seek help last 6mo', '*HGMH1 -
coef_df <- data.frame(row.names = dv_titles,</pre>
                                      Coefficient = sapply(models, function(x) coef(summary(x))['interventiongroupInter
                                      'Std error' = sapply(models, function(x) coef(summary(x))['interventiongroupInter
                                      'P value' = sapply(models, function(x) coef(summary(x))['interventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventiongroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroupInterventionGroup
## Warning in vcov.merMod(object, use.hessian = use.hessian): variance-covariance matrix computed from
## not positive definite or contains NA values: falling back to var-cov estimated from RX
## Warning in vcov.merMod(object, correlation = correlation, sigm = sig): variance-covariance matrix con
## not positive definite or contains NA values: falling back to var-cov estimated from RX
## Warning in vcov.merMod(object, use.hessian = use.hessian): variance-covariance matrix computed from
## not positive definite or contains NA values: falling back to var-cov estimated from RX
## Warning in vcov.merMod(object, correlation = correlation, sigm = sig): variance-covariance matrix con
## not positive definite or contains NA values: falling back to var-cov estimated from RX
## Warning in vcov.merMod(object, use.hessian = use.hessian): variance-covariance matrix computed from
## not positive definite or contains NA values: falling back to var-cov estimated from RX
## Warning in vcov.merMod(object, correlation = correlation, sigm = sig): variance-covariance matrix co
## not positive definite or contains NA values: falling back to var-cov estimated from RX
## Warning in vcov.merMod(object, use.hessian = use.hessian): variance-covariance matrix computed from
## not positive definite or contains NA values: falling back to var-cov estimated from RX
## Warning in vcov.merMod(object, correlation = correlation, sigm = sig): variance-covariance matrix co
## not positive definite or contains NA values: falling back to var-cov estimated from RX
coef_df_t2t3 <- data.frame(row.names = dv_titles_t2t3_only,</pre>
                                              Coefficient = sapply(models_t2t3_only, function(x) coef(summary(x))['interver']
                                              'Std error' = sapply(models_t2t3_only, function(x) coef(summary(x))['interve
                                              'P value' = sapply(models_t2t3_only, function(x) coef(summary(x))['intervent
d <- vector(mode="numeric", length=nrow(coef_df))</pre>
for(i in 1:nrow(coef_df)){
   if(class(models[[i]]) == "merModLmerTest") {
      y <- getME(models[[i]], name = 'y')
      X <- getME(models[[i]], name = 'X')</pre>
      d[i] <- coef_df$Coefficient[i] / sd(y[X[,'timePoint_factor2'] == 0 & X[,'timePoint_factor3'] == 0])</pre>
   }
   else {
      d[i] \leftarrow NA
d_t2t3 <- vector(mode = "numeric", length = nrow(coef_df_t2t3))</pre>
for(i in 1:nrow(coef_df_t2t3)){
   if(class(models_t2t3_only[[i]]) == "merModLmerTest") {
      y <- getME(models t2t3 only[[i]], name = 'y')
      X <- getME(models_t2t3_only[[i]], name = 'X')</pre>
       d_t2t3[i] <- coef_df_t2t3$Coefficient[i] / sd(y[X[,'timePoint_factor3'] == 0])</pre>
  }
```

```
else {
    d_t2t3[i] <- NA</pre>
coef_df[,'Cohens d'] <- d</pre>
coef_df_t2t3[,'Cohens d'] <- d_t2t3</pre>
coef_df <- rbind(coef_df, coef_df_t2t3)</pre>
all_models <- c(models, models_t2t3_only)</pre>
all_titles <- c(dv_titles, dv_titles_t2t3_only)</pre>
coefs_3 <- sapply(all_models, function(x) coef(summary(x))['interventiongroupIntervention:timePoint_fac</pre>
## Warning in vcov.merMod(object, use.hessian = use.hessian): variance-covariance matrix computed from
## not positive definite or contains NA values: falling back to var-cov estimated from RX
## Warning in vcov.merMod(object, use.hessian = use.hessian): variance-covariance matrix computed from
## not positive definite or contains NA values: falling back to var-cov estimated from RX
se_3 <- sapply(all_models, function(x) coef(summary(x))['interventiongroupIntervention:timePoint_factor.
## Warning in vcov.merMod(object, use.hessian = use.hessian): variance-covariance matrix computed from
## not positive definite or contains NA values: falling back to var-cov estimated from RX
## Warning in vcov.merMod(object, use.hessian = use.hessian): variance-covariance matrix computed from
## not positive definite or contains NA values: falling back to var-cov estimated from RX
p_3 <- sapply(all_models, function(x) coef(summary(x))['interventiongroupIntervention:timePoint_factor3
## Warning in vcov.merMod(object, use.hessian = use.hessian): variance-covariance matrix computed from
## not positive definite or contains NA values: falling back to var-cov estimated from RX
## Warning in vcov.merMod(object, use.hessian = use.hessian): variance-covariance matrix computed from
## not positive definite or contains NA values: falling back to var-cov estimated from RX
## Warning in vcov.merMod(object, use.hessian = use.hessian): variance-covariance matrix computed from
## not positive definite or contains NA values: falling back to var-cov estimated from RX
## Warning in vcov.merMod(object, correlation = correlation, sigm = sig): variance-covariance matrix co
## not positive definite or contains NA values: falling back to var-cov estimated from RX
models_df <- data.frame(row.names = all_titles, 'Time 1vs2' = coef_df$Coefficient, 'SE 1vs2' = coef_df$
models_df[dv_titles_t2t3_only, 1:3] <- NA
coping_models_df <- data.frame(row.names = cope_var_names,</pre>
                            'Time 1vs2' = sapply(cope_items_models, function(x) coef(summary(x))['interv
                            'SE 1vs2' = sapply(cope_items_models, function(x) coef(summary(x))['interven
                            'p 1vs2' = sapply(cope_items_models, function(x) coef(summary(x))['intervent
                            'Time 1vs3' = sapply(cope_items_models, function(x) coef(summary(x))['interv
                            'SE 1vs3' = sapply(cope_items_models, function(x) coef(summary(x))['interven
                            'p 1vs3' = sapply(cope_items_models, function(x) coef(summary(x))['intervent
print(xtable(models_df, auto = TRUE, caption = "Asterixes indicate data collected at times 2 and 3 only
\% latex table generated in R 3.4.3 by xtable 1.8-2 package \% Mon Mar 05 16:14:14 2018
print(xtable(coping_models_df, auto = TRUE, caption = "Coping items - asterixes indicate data collected
\% latex table generated in R 3.4.3 by xtable 1.8-2 package \% Mon Mar 05 16:14:14 2018
```

```
contrasts <- data.frame()</pre>
for(mod in models) {
  MM <- lsmeans::lsmeans(mod, ~ timePoint_factor * interventiongroup)</pre>
  contrast_result <- summary(rbind(pairs(MM, by="interventiongroup")[5]), type = "response")</pre>
  if(dim(contrasts)[1] == 0) {
    contrasts <- contrast_result</pre>
  }
  else {
    contrasts <- rbind(contrasts, setNames(contrast_result, names(contrasts)))</pre>
}
## Warning: Function call in data or subset: ref.grid/lsmeans results may be
## inconsistent
## Warning: Function call in data or subset: ref.grid/lsmeans results may be
## inconsistent
## Warning in vcov.merMod(object, correlation = FALSE): variance-covariance matrix computed from finite
## not positive definite or contains NA values: falling back to var-cov estimated from RX
row.names(contrasts) <- dv_titles</pre>
print(xtable(cbind(dv_titles, contrasts)[,2:ncol(contrasts)+1], auto = TRUE, caption = "Within subject
\% latex table generated in R 3.4.3 by xtable 1.8-2 package \% Mon Mar 05 16:14:17 2018
contrasts <- data.frame()</pre>
for(mod in models) {
  MM <- lsmeans::lsmeans(mod, ~ timePoint_factor * interventiongroup)</pre>
  contrast_result <- summary(rbind(pairs(MM, by="interventiongroup")[3]), type = "response")</pre>
  if(dim(contrasts)[1] == 0) {
    contrasts <- contrast_result</pre>
  else {
    contrasts <- rbind(contrasts, setNames(contrast_result, names(contrasts)))</pre>
  }
}
## Warning: Function call in data or subset: ref.grid/lsmeans results may be
## inconsistent
## Warning: Function call in data or subset: ref.grid/lsmeans results may be
## inconsistent
## Warning in vcov.merMod(object, correlation = FALSE): variance-covariance matrix computed from finite
## not positive definite or contains NA values: falling back to var-cov estimated from RX
row.names(contrasts) <- dv_titles</pre>
print(xtable(cbind(dv_titles, contrasts)[,2:ncol(contrasts)+1], auto = TRUE, caption = "Within subject
\% latex table generated in R 3.4.3 by xtable 1.8-2 package \% Mon Mar 05 16:14:19 2018
texreg(all_models, type = "html", digits = 3, bold = .05, booktabs = TRUE, sideways = TRUE, use.packag
## Warning in vcov.merMod(model, useScale = FALSE, ...): variance-covariance matrix computed from finit
## not positive definite or contains NA values: falling back to var-cov estimated from RX
```

Let's generate descriptive stats for the mental health variables.

{r, results = "asis"} # vars <- filtered %>% select(BDImean16_T,
PTSDmean13_T, functioning, DisMH1anxiousT, DisMH2depressedT,
DisMH3avoidT, timePoint) # vars %<>% rename(Time = timePoint)
tableContinuous(vars = list(vars\$BDImean16_T, vars\$PTSDmean13_T,
vars\$functioning, as.numeric(vars\$DisMH1anxiousT), as.numeric(vars\$DisMH
as.numeric(vars\$DisMH3avoidT)), group = vars\$Time, stats =
c('n', 'min', 'q1', 'median', 'mean', 'q3', 'max'), cap = "Descriptive
statistics", nams = c('BDI', 'PTSD', 'Functioning', 'Dis MH anxious', 'Dis MH - depressed', 'Dis MH - avoid'), prec = 2) #

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Variable	Time point	\mathbf{n}	\mathbf{Min}	$\mathbf{q_1}$	$\widetilde{\mathbf{x}}$	$\bar{\mathbf{x}}$	$\mathbf{q_3}$	Max
BDI	1	370	1	1.29	1.52	1.61	1.89	3.10
	2	341	1	1.19	1.48	1.56	1.86	3.52
	3	371	1	1.10	1.33	1.43	1.67	3.14
	all		1	1.19	1.48	1.53	1.81	3.52
PTSD	1	370	1	1.24	1.76	1.88	2.40	4.35
	2	341	1	1.12	1.47	1.71	2.06	4.53
	3	371	1	1.06	1.29	1.47	1.71	4.18
	all		1	1.12	1.47	1.69	2.06	4.53
Functioning	1	366	1	1.00	1.11	1.33	1.56	3.67
	2	341	1	1.00	1.11	1.34	1.56	3.00
	3	371	1	1.00	1.11	1.24	1.33	2.67
	all		1	1.00	1.11	1.30	1.44	3.67
Dis MH - anxious	1	370	1	4.00	4.00	3.83	4.00	5.00
	2	341	1	2.00	3.00	3.18	4.00	5.00
	3	371	1	2.00	3.00	2.95	4.00	5.00
	all		1	2.00	4.00	3.33	4.00	5.00
Dis MH - depressed	1	369	1	3.00	4.00	3.39	4.00	5.00
	2	341	1	2.00	3.00	2.96	4.00	5.00
	3	370	1	2.00	2.00	2.62	3.00	5.00
	all		1	2.00	3.00	2.99	4.00	5.00
Dis MH - avoid	1	370	1	2.00	2.00	2.24	3.00	5.00
	2	341	1	2.00	2.00	2.25	3.00	5.00
	3	371	1	2.00	2.00	2.14	2.00	5.00
	all		1	2.00	2.00	2.21	3.00	5.00

Table 10: Descriptive statistics

Next the data by location across all time points.

{r, results = "asis"} # vars <- filtered %>% select(BDImean16_T,
PTSDmean13_T, functioning, DisMH1anxiousT, DisMH2depressedT,
DisMH3avoidT, T1loccode) # vars %<>% rename(Location = T1loccode)
tableContinuous(vars = list(vars\$BDImean16_T, vars\$PTSDmean13_T,
vars\$functioning, as.numeric(vars\$DisMH1anxiousT), as.numeric(vars\$DisMH
as.numeric(vars\$DisMH3avoidT)), group = vars\$Location, stats
= c('n', 'min', 'q1', 'median', 'mean', 'q3', 'max'), cap =
"Descriptive statistics by location", nams = c('BDI', 'PTSD',
'Functioning', 'Dis MH - anxious', 'Dis MH - depressed', 'Dis
MH - avoid'), prec = 2) #

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Variable	Location	n	\mathbf{Min}	$\mathbf{q_1}$	$\widetilde{\mathbf{x}}$	$\bar{\mathbf{x}}$	$\mathbf{q_3}$	Max
BDI	1	347	1	1.19	1.43	1.51	1.71	3.52
	2	374	1	1.19	1.43	1.52	1.81	2.95
	3	361	1	1.14	1.48	1.57	1.86	3.19
	all		1	1.19	1.48	1.53	1.81	3.52
PTSD	1	347	1	1.12	1.53	1.70	2.06	4.47
	2	374	1	1.12	1.41	1.68	2.10	4.53
	3	361	1	1.12	1.47	1.69	2.00	4.06
	all		1	1.12	1.47	1.69	2.06	4.53
Functioning	1	346	1	1.00	1.11	1.30	1.44	3.67
	2	373	1	1.00	1.11	1.26	1.33	3.22
	3	359	1	1.00	1.11	1.34	1.56	3.11
	all		1	1.00	1.11	1.30	1.44	3.67
Dis MH - anxious	1	347	1	2.00	3.00	3.33	4.00	5.00
	2	374	1	3.00	4.00	3.32	4.00	5.00
	3	361	1	2.00	4.00	3.34	4.00	5.00
	all		1	2.00	4.00	3.33	4.00	5.00
Dis MH - depressed	1	346	1	2.00	3.00	2.97	4.00	5.00
	2	374	1	2.00	3.00	3.00	4.00	5.00
	3	360	1	2.00	3.00	3.01	4.00	5.00
	all		1	2.00	3.00	2.99	4.00	5.00
Dis MH - avoid	1	347	1	2.00	2.00	2.27	3.00	5.00
	2	374	1	2.00	2.00	2.26	3.00	5.00
	3	361	1	2.00	2.00	2.10	2.00	5.00
	all		1	2.00	2.00	2.21	3.00	5.00

Table 11: Descriptive statistics by location

Next tables for each of the time points, broken down by location (city)

{r, results = "asis"} # vars <- filtered %>% filter(timePoint_factor
== '1') %>% select(BDImean16_T, PTSDmean13_T, functioning,
DisMH1anxiousT, DisMH2depressedT, DisMH3avoidT, T1loccode) #
vars %<>% rename(Location = T1loccode) # tableContinuous(vars
= list(vars\$BDImean16_T, vars\$PTSDmean13_T, vars\$functioning,
as.numeric(vars\$DisMH1anxiousT), as.numeric(vars\$DisMH2depressedT),
as.numeric(vars\$DisMH3avoidT)), group = vars\$Location, stats
= c('n', 'min', 'q1', 'median', 'mean', 'q3', 'max'), cap =
"Descriptive statistics for time point 1 by location", nams =
c('BDI', 'PTSD', 'Functioning', 'Dis MH - anxious', 'Dis MH depressed', 'Dis MH - avoid'), prec = 2) #

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Variable	Location	\mathbf{n}	\mathbf{Min}	$\mathbf{q_1}$	$\widetilde{\mathbf{x}}$	$\bar{\mathbf{x}}$	$\mathbf{q_3}$	Max
BDI	1	117	1	1.29	1.52	1.61	1.90	2.90
	2	129	1	1.29	1.52	1.59	1.86	2.95
	3	124	1	1.24	1.57	1.63	1.95	3.10
	all		1	1.29	1.52	1.61	1.89	3.10
PTSD	1	117	1	1.24	1.82	1.97	2.47	3.88
	2	129	1	1.18	1.62	1.82	2.29	4.35
	3	124	1	1.29	1.74	1.87	2.24	4.00
	all		1	1.24	1.76	1.88	2.40	4.35
Functioning	1	116	1	1.00	1.22	1.37	1.67	3.67
	2	128	1	1.00	1.11	1.26	1.44	3.22
	3	122	1	1.00	1.11	1.36	1.56	3.11
	all		1	1.00	1.11	1.33	1.56	3.67
Dis MH - anxious	1	117	2	3.00	4.00	3.82	4.00	5.00
	2	129	1	4.00	4.00	3.85	4.00	5.00
	3	124	1	4.00	4.00	3.81	4.00	5.00
	all		1	4.00	4.00	3.83	4.00	5.00
Dis MH - depressed	1	116	1	3.00	3.00	3.34	4.00	5.00
	2	129	1	3.00	4.00	3.40	4.00	5.00
	3	124	1	3.00	4.00	3.44	4.00	5.00
	all		1	3.00	4.00	3.39	4.00	5.00
Dis MH - avoid	1	117	1	2.00	2.00	2.45	3.00	5.00
	2	129	1	2.00	2.00	2.16	3.00	5.00
	3	124	1	2.00	2.00	2.13	2.00	5.00
	all		1	2.00	2.00	2.24	3.00	5.00

Table 12: Descriptive statistics for time point 1 by location

{r, results = "asis"} # vars <- filtered %>% filter(timePoint_factor
== '2') %>% select(BDImean16_T, PTSDmean13_T, functioning,
DisMH1anxiousT, DisMH2depressedT, DisMH3avoidT, T1loccode) #
vars %<>% rename(Location = T1loccode) # tableContinuous(vars
= list(vars\$BDImean16_T, vars\$PTSDmean13_T, vars\$functioning,
as.numeric(vars\$DisMH1anxiousT), as.numeric(vars\$DisMH2depressedT),
as.numeric(vars\$DisMH3avoidT)), group = vars\$Location, stats
= c('n', 'min', 'q1', 'median', 'mean', 'q3', 'max'), cap =
"Descriptive statistics for time point 2 by location", nams =
c('BDI', 'PTSD', 'Functioning', 'Dis MH - anxious', 'Dis MH depressed', 'Dis MH - avoid'), prec = 2) #

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Variable	Location	n	\mathbf{Min}	$\mathbf{q_1}$	$\widetilde{\mathbf{x}}$	$\bar{\mathbf{x}}$	$\mathbf{q_3}$	Max
BDI	1	112	1	1.14	1.43	1.52	1.71	3.52
	2	116	1	1.24	1.52	1.58	1.86	2.71
	3	113	1	1.19	1.48	1.59	1.90	3.19
	all		1	1.19	1.48	1.56	1.86	3.52
PTSD	1	112	1	1.12	1.47	1.64	1.94	4.47
	2	116	1	1.18	1.56	1.77	2.18	4.53
	3	113	1	1.12	1.47	1.70	2.12	3.65
	all		1	1.12	1.47	1.71	2.06	4.53
Functioning	1	112	1	1.00	1.22	1.32	1.44	2.89
	2	116	1	1.00	1.11	1.31	1.44	3.00
	3	113	1	1.00	1.22	1.38	1.67	2.89
	all		1	1.00	1.11	1.34	1.56	3.00
Dis MH - anxious	1	112	2	2.00	3.00	3.22	4.00	5.00
	2	116	1	2.00	3.00	3.11	4.00	5.00
	3	113	1	2.00	3.00	3.22	4.00	5.00
	all		1	2.00	3.00	3.18	4.00	5.00
Dis MH - depressed	1	112	1	2.00	3.00	2.97	4.00	5.00
	2	116	1	2.00	3.00	3.00	4.00	5.00
	3	113	1	2.00	3.00	2.89	4.00	5.00
	all		1	2.00	3.00	2.96	4.00	5.00
Dis MH - avoid	1	112	1	2.00	2.00	2.22	3.00	5.00
	2	116	1	2.00	2.00	2.39	3.00	5.00
	3	113	1	2.00	2.00	2.14	2.00	5.00
	all		1	2.00	2.00	2.25	3.00	5.00

Table 13: Descriptive statistics for time point 2 by location

{r, results = "asis"} # vars <- filtered %>% filter(timePoint_factor
== '3') %>% select(BDImean16_T, PTSDmean13_T, functioning,
DisMH1anxiousT, DisMH2depressedT, DisMH3avoidT, T1loccode) #
vars %<>% rename(Location = T1loccode) # tableContinuous(vars
= list(vars\$BDImean16_T, vars\$PTSDmean13_T, vars\$functioning,
as.numeric(vars\$DisMH1anxiousT), as.numeric(vars\$DisMH2depressedT),
as.numeric(vars\$DisMH3avoidT)), group = vars\$Location, stats
= c('n', 'min', 'q1', 'median', 'mean', 'q3', 'max'), cap =
"Descriptive statistics for time point 3 by location", nams =
c('BDI', 'PTSD', 'Functioning', 'Dis MH - anxious', 'Dis MH depressed', 'Dis MH - avoid'), prec = 2) #

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Variable	Location	\mathbf{n}	\mathbf{Min}	$\mathbf{q_1}$	$\widetilde{\mathbf{x}}$	$\bar{\mathbf{x}}$	$\mathbf{q_3}$	Max
BDI	1	118	1	1.14	1.36	1.41	1.62	2.81
	2	129	1	1.10	1.29	1.40	1.62	2.71
	3	124	1	1.10	1.38	1.48	1.76	3.14
	all		1	1.10	1.33	1.43	1.67	3.14
PTSD	1	118	1	1.06	1.35	1.48	1.69	3.29
	2	129	1	1.06	1.24	1.45	1.65	4.18
	3	124	1	1.06	1.29	1.49	1.72	4.06
	all		1	1.06	1.29	1.47	1.71	4.18
Functioning	1	118	1	1.00	1.11	1.22	1.33	2.56
	2	129	1	1.00	1.11	1.21	1.22	2.67
	3	124	1	1.00	1.11	1.28	1.44	2.67
	all		1	1.00	1.11	1.24	1.33	2.67
Dis MH - anxious	1	118	1	2.00	3.00	2.93	4.00	5.00
	2	129	1	2.00	3.00	2.97	4.00	5.00
	3	124	1	2.00	3.00	2.96	4.00	5.00
	all		1	2.00	3.00	2.95	4.00	5.00
Dis MH - depressed	1	118	1	2.00	2.00	2.59	3.00	5.00
	2	129	1	2.00	2.00	2.60	3.00	5.00
	3	123	1	2.00	2.00	2.67	3.50	5.00
	all		1	2.00	2.00	2.62	3.00	5.00
Dis MH - avoid	1	118	1	2.00	2.00	2.13	2.00	5.00
	2	129	1	2.00	2.00	2.26	2.00	4.00
	3	124	1	2.00	2.00	2.03	2.00	4.00
	all		1	2.00	2.00	2.14	2.00	5.00

Table 14: Descriptive statistics for time point 3 by location

	Time.1vs2	SE.1vs2	p.1vs2	CohD.1vs2	Time.1vs3	SE.1vs3	p.1vs3
BDI	-0.00	0.04	0.9765	-0.00	0.04	0.04	0.2432
Disaster preparation	0.72	0.32	0.0225	0.29	-0.23	0.31	0.4622
Dis prep 95	0.51	0.24	0.0332	0.23	-0.18	0.24	0.4591
Self efficacy	0.12	0.07	0.0703	0.18	-0.14	0.07	0.0326
Self eff 1 - time	0.26	0.27	0.3396		-0.22	0.26	0.4045
Self eff 2 - Afford	0.25	0.28	0.3639		-0.38	0.27	0.1527
Self eff 3 - info	0.55	0.27	0.0402		-0.34	0.26	0.1900
Disaster MH	0.01	0.08	0.9154	0.01	-0.00	0.08	0.9973
Dis MH 1 - anxious	-0.14	0.26	0.6070		-0.06	0.26	0.8300
Dis MH 2 - depression	-0.06	0.26	0.8184		-0.26	0.26	0.3229
Dis MH 3 - avoid	0.27	0.27	0.3103		0.28	0.27	0.2988
Fatalism	-0.20	0.12	0.1130	-0.16	0.04	0.12	0.7576
Fat 1 - don't worry	-0.33	0.26	0.1959		0.11	0.25	0.6709
Fat 2 - injured	-0.38	0.26	0.1359		0.03	0.26	0.9026
Dis attr - natural	0.25	0.28	0.3585		0.05	0.26	0.8423
Dis attr - God's will	-0.36	0.28	0.2024		-0.08	0.28	0.7851
Dis attr - other supernat	-0.51	0.36	0.1516		0.02	0.35	0.9480
Dis attr - karma	-0.43	0.30	0.1628		-0.11	0.29	0.7140
Dis attr - Neppeop	0.44	0.27	0.1026		0.79	0.26	0.0029
Dis attr - govts	0.38	0.28	0.1686		0.11	0.27	0.6784
Relig 1 - private activ	0.09	0.28	0.7357		-0.20	0.27	0.4715
Relig 2 - public activ	0.43	0.28	0.1257		0.03	0.27	0.9090
Functioning - males	-0.01	0.06	0.9042	-0.02	0.03	0.06	0.5986
Functioning - females	-0.02	0.05	0.7544	-0.03	-0.00	0.05	0.9993
Functioning - all	-0.01	0.04	0.7489	-0.03	0.01	0.04	0.8053
Coping	0.02	0.03	0.5627	0.06	0.00	0.03	0.9587
Social cohesion	0.16	0.06	0.0121	0.26	0.10	0.06	0.1197
PTSD	-0.04	0.07	0.5169	-0.06	0.01	0.06	0.9124
PMHP	0.02	0.03	0.4600	0.07	0.03	0.03	0.3928
HSMH2a - Comfort seek help future	-0.19	0.28	0.4859		-0.15	0.27	0.5904
HSDis2 - Comfort seeking help	0.21	0.28	0.4497		-0.02	0.28	0.9407
HSMH2b - Gods	-0.16	1.04	0.8740		-0.39	1.05	0.7120
HSMH2b - Priest	0.08	0.34	0.8153		0.57	0.65	0.3791
HSMH2b - Neighbors	0.55	0.36	0.1196		-0.07	0.37	0.8507
HSMH2b - Family	-0.67	0.00	0.0000		-1.32	0.00	0.0000
HSMH2b - Friends	0.07	0.50	0.8860		-0.02	0.50	0.9647
HSMH2b - Hospital	0.24	2551.26	0.9999		0.06	2551.26	1.0000
HSMH2b - CBMHT	0.64	1.25	0.6085		0.95	1.45	0.5101
HGMH3 - Know how help	0.82	0.35	0.0199		0.02	0.38	0.9632
HSMH3 - Faultsadness	-0.32	0.37	0.3835		-0.16	0.36	0.6573
*HSMH1a - Seek help last 6 months					-0.52	0.58	0.3716
*HSDis1 - Seek help last 6mo					-0.03	0.33	0.9314
*HGMH1 - Helped someone last 6mo					-0.05	0.31	0.8834
*HGDis1 - Helped last 6mo					-0.19	0.35	0.5879

	Time.1vs2	SE.1vs2	p.1vs2	Time.1vs3	SE.1vs3	p.1vs3
Cope1Active_T	0.74	0.27	0.0067	-0.03	0.26	0.9244
$Cope2Posreframe_T$	-0.16	0.27	0.5491	0.04	0.26	0.8779
$Cope3Acceptance_T$	-0.19	0.27	0.4724	-0.31	0.27	0.2481
$Cope4Emotsupport_T$	0.18	0.27	0.5124	-0.19	0.26	0.4775
$Cope5Instrumsupport_T$	0.13	0.27	0.6404	-0.00	0.26	0.9882
$Cope6Selfdistract_T$	-0.13	0.27	0.6393	-0.34	0.26	0.1855
$Cope7Subuse_T$	0.04	0.44	0.9253	0.26	0.44	0.5617
Cope8Behavdisengage_T	-0.06	0.29	0.8312	0.43	0.30	0.1537
$Cope9Selfblame_T$	0.01	0.30	0.9648	0.00	0.30	0.9909
Cope10Denial_T	0.13	0.31	0.6789	0.11	0.33	0.7258
Cope11Puja_T	0.08	0.29	0.7814	0.24	0.28	0.3904
$Cope12Fight_T$	-0.05	0.41	0.9100	0.09	0.42	0.8270
$Cope13Other_T$	-0.09	0.52	0.8611	-0.08	0.52	0.8727

Table 6: Coping items - asterixes indicate data collected at times 2 and 3 only (coefficient is time 2 vs 3 x group interaction)

	interventiongroup	estimate	SE	df	t.ratio	p.value
BDI	Intervention	0.15	0.03	862.69	5.68	0.000
Disaster preparation	Intervention	-0.18	0.23	834.64	-0.81	0.417
Dis prep 95	Intervention	-0.79	0.17	841.38	-4.59	0.000
Self efficacy	Intervention	-0.12	0.05	863.52	-2.36	0.018
Self eff 1 - time	Intervention	-0.02	0.19		-0.12	0.903
Self eff 2 - Afford	Intervention	-0.08	0.19		-0.43	0.665
Self eff 3 - info	Intervention	-0.87	0.19		-4.61	0.000
Disaster MH	Intervention	0.58	0.05	873.59	10.71	0.000
Dis MH 1 - anxious	Intervention	2.10	0.20		10.57	0.000
Dis MH 2 - depression	Intervention	1.96	0.20		9.90	0.000
Dis MH 3 - avoid	Intervention	0.12	0.19		0.64	0.521
Fatalism	Intervention	0.58	0.09	861.63	6.62	0.000
Fat 1 - don't worry	Intervention	0.91	0.19		4.92	0.000
Fat 2 - injured	Intervention	1.13	0.19		5.99	0.000
Dis attr - natural	Intervention	0.79	0.19		4.20	0.000
Dis attr - God's will	Intervention	0.97	0.20		4.74	0.000
Dis attr - other supernat	Intervention	0.47	0.25		1.88	0.061
Dis attr - karma	Intervention	0.71	0.21		3.34	0.001
Dis attr - Neppeop	Intervention	0.12	0.19		0.65	0.515
Dis attr - govts	Intervention	-0.49	0.19		-2.57	0.010
Relig 1 - private activ	Intervention	-0.31	0.20		-1.59	0.112
Relig 2 - public activ	Intervention	0.63	0.20		3.12	0.002
Functioning - males	Intervention	0.04	0.04	219.36	0.86	0.389
Functioning - females	Intervention	0.10	0.04	641.33	2.67	0.008
Functioning - all	Intervention	0.08	0.03	868.27	2.77	0.006
Coping	Intervention	0.05	0.02	873.58	2.14	0.033
Social cohesion	Intervention	-0.14	0.05	858.80	-3.12	0.002
PTSD	Intervention	0.39	0.05	862.23	8.34	0.000
PMHP	Intervention	0.08	0.02	855.36	3.37	0.001
HSMH2a - Comfort seek help future	Intervention	-0.06	0.20		-0.30	0.764
HSDis2 - Comfort seeking help	Intervention	0.12	0.20		0.59	0.555
HSMH2b - Gods	Intervention	0.06	0.05		-3.73	0.000
HSMH2b - Priest	Intervention	20.17	7.75		7.82	0.000
HSMH2b - Neighbors	Intervention	0.06	0.02		-9.67	0.000
HSMH2b - Family	Intervention	0.00	0.00		-8956.38	0.000
HSMH2b - Friends	Intervention	0.01	0.01		-10.92	0.000
HSMH2b - Hospital	Intervention	0.00	0.00		-0.01	0.992
HSMH2b - CBMHT	Intervention	0.23	0.25		-1.34	0.180
HGMH3 - Know how help	Intervention	0.33	0.09		-4.06	0.000
HSMH3 - Faultsadness	Intervention	2.17	0.58		2.91	0.004

Table 7: Within subject contrasts for time 1 to 3 for intervention group

	interventiongroup	estimate	SE	df	t.ratio	p.value
BDI	Control	0.13	0.03	849.71	5.00	0.000
Disaster preparation	Control	-0.61	0.22	811.32	-2.79	0.005
Dis prep 95	Control	-0.68	0.17	816.21	-4.08	0.000
Self efficacy	Control	-0.28	0.05	850.84	-5.72	0.000
Self eff 1 - time	Control	-0.51	0.18		-2.78	0.005
Self eff 2 - Afford	Control	-0.48	0.19		-2.49	0.013
Self eff 3 - info	Control	-1.21	0.19		-6.32	0.000
Disaster MH	Control	0.19	0.05	864.23	3.58	0.000
Dis MH 1 - anxious	Control	0.48	0.18		2.65	0.008
Dis MH 2 - depression	Control	0.60	0.18		3.27	0.001
Dis MH 3 - avoid	Control	0.28	0.19		1.46	0.143
Fatalism	Control	0.54	0.09	849.37	6.23	0.000
Fat 1 - don't worry	Control	0.97	0.18		5.35	0.000
Fat 2 - injured	Control	0.94	0.18		5.16	0.000
Dis attr - natural	Control	0.36	0.18		1.95	0.051
Dis attr - God's will	Control	1.01	0.20		4.97	0.000
Dis attr - other supernat	Control	0.54	0.26		2.08	0.038
Dis attr - karma	Control	0.13	0.22		0.61	0.542
Dis attr - Neppeop	Control	0.21	0.20		1.08	0.281
Dis attr - govts	Control	-0.46	0.20		-2.35	0.019
Relig 1 - private activ	Control	-0.06	0.19		-0.29	0.769
Relig 2 - public activ	Control	0.05	0.20		0.23	0.815
Functioning - males	Control	0.12	0.05	216.46	2.59	0.010
Functioning - females	Control	0.09	0.04	630.20	2.54	0.011
Functioning - all	Control	0.10	0.03	855.04	3.36	0.001
Coping	Control	0.04	0.02	861.09	1.61	0.109
Social cohesion	Control	-0.08	0.05	845.66	-1.84	0.067
PTSD	Control	0.23	0.05	848.40	4.86	0.000
PMHP	Control	0.07	0.02	842.00	3.02	0.003
HSMH2a - Comfort seek help future	Control	0.02	0.19		0.13	0.899
HSDis2 - Comfort seeking help	Control	-0.09	0.19		-0.47	0.640
HSMH2b - Gods	Control	2.14	0.57		2.87	0.004
HSMH2b - Priest	Control	7.53	4.11		3.70	0.000
HSMH2b - Neighbors	Control	0.55	0.16		-2.11	0.035
HSMH2b - Family	Control	0.24	0.00		-1027.78	0.000
HSMH2b - Friends	Control	0.83	0.18		-0.86	0.390
HSMH2b - Hospital	Control	1.35	0.27		1.50	0.133
HSMH2b - CBMHT	Control	28.29	18.14		5.21	0.000
HGMH3 - Know how help	Control	0.24	0.07		-5.04	0.000
HSMH3 - Faultsadness	Control	1.51	0.37		1.66	0.096

Table 8: Within subject contrasts for time 2 to 3 for control group

Disaster MH	-0.386^{***}	(0.053)	-0.579^{***}	(0.052)	-0.072	(0.059)	0.008	(0.077)	-0.000	(0.075)	2588.999
Self eff 3 - info	-0.006	(0.183)	1.205^{***}	(0.183)	-0.169	(0.215)	$\boldsymbol{0.547}^*$	(0.267)	-0.339	(0.258)	3294.835
Self eff 2 - Afford	-0.010	(0.190)	$\boldsymbol{0.467}^*$	(0.188)	-0.123	(0.212)	0.250	(0.275)	-0.384	(0.268)	3062.477
Self eff 1 - time	-0.269	(0.186)	0.241	(0.182)	-0.408	(0.219)	0.256	(0.268)	-0.218	(0.261)	3379.298
Self efficacy	-0.017	(0.048)	0.260^{***}	(0.047)	-0.079	(0.060)	0.125	(0.069)	-0.145^*	(0.068)	2504.798
Dis prep 95	0.282	(0.166)	0.963^{***}	(0.163)	-0.058	(0.195)	0.513^*	(0.241)	-0.175	(0.237)	5446.317
Disaster preparation	-0.199	(0.218)		(0.214)	-0.079	(0.252)	0.723^*	(0.316)	-0.229	(0.311)	5996.378
BDI	-0.061^*	(0.025)	-0.190^{***}	(0.025)	-0.023	(0.039)	-0.001	(0.037)	0.042	(0.036)	1124.401
	Time point $= 2$		Time point $= 3$		Intervention		Intervention x Time $= 2$		Intervention x Time $= 3$		BIC

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

Table 9: Statistical models