BPRM Lebanon data analysis

```
library(readxl)
library(dplyr)
library(magrittr)
library(haven)
library(ordinal)
library(ggplot2)
library(xtable)
library(stringr)
library(sjlabelled)
library(reporttools)
setwd("C:/Users/ajame/Dropbox/BPRM/Lebanon")
```

```
campaign <- read_excel("campaign.xlsx")
phase3 <- read_excel("phase3.xlsx")
conditions <- read_excel("conditions_key.xlsx")
campaign %<>% rename(ID = Q2)
phase3 %<>% rename(ID  = Q2, usable = `Usable subjects`)
campaign$ID <- trimws(toupper(campaign$ID))
phase3$ID <- trimws(toupper(phase3$ID))
conditions$ID <- trimws(toupper(conditions$ID))
conditions$cond <- factor(conditions$cond, levels = levels(factor(conditions$cond))[c(3,1,2)], labels = c('Con



campaign$ID[campaign$ID == "86"] <- "W86"
campaign$ID[campaign$ID=="M123"] <- "W123"
campaign$ID[campaign$ID=="M158"] <- "W158"
campaign$ID[campaign$StartDate == as.POSIXct("2018-04-23 04:22:22", tz = "UTC")] <- "M201"
campaign <- campaign[campaign$StartDate != as.POSIXct("2018-04-24 06:44:51", tz = "UTC") & campaign$StartDate
#campaign$ID_gender <- factor(substr(campaign$ID, 1, 1), labels = c("Men", "Women"))
campaign <- left_join(campaign, conditions %>% select(ID, cond), by = c("ID" = "ID") )

phase3$ID[phase3$ID == "M26O"] <- "M260"
phase3$ID[phase3$StartDate == as.POSIXct("2018-04-27 03:21:04", tz = "UTC")] <- "W74"
phase3$ID[phase3$StartDate == as.POSIXct("2018-04-27 07:54:00", tz = "UTC")] <- "W68"
phase3 <- phase3[phase3$StartDate != as.POSIXct("2018-05-11 06:35:37", tz = "UTC") & phase3$StartDate != as.PO
phase3$ID_gender <- factor(substr(phase3$ID, 1, 1), labels = c("Men", "Women"))
phase3$usable <- factor(phase3$usable, levels = levels(factor(phase3$usable))[c(3,1,2)], labels = c('Control',
phase3 <- left_join(phase3, conditions %>% select(ID, cond), by = c("ID" = "ID") )

#excluding campaign 2 for now
#phase3 <- phase3[phase3$usable != "Campaign2" & !is.na(phase3$usable),]
#ij_c <- inner_join(campaign, phase3, by = "ID")
#ij_p <- inner_join(phase3, campaign, by = "ID")
#aj_c <- anti_join(campaign, phase3, by = "ID")
#aj_p <- anti_join(phase3, campaign, by = "ID")
#controls <- phase3 %>% filter(cond == 3)
```

```
ID_gender <- phase3 %>% select(ID_gender) %>% as.data.frame
```

```
phase3 %<>% rename(EffIndiv1 = Q78, EffIndiv2 = Q80, EffIndiv3 = Q82, EffComm1 = Q85)

phase3 %<>% mutate_at(vars(starts_with("EffIndiv"), EffComm1), funs(replace(., equals(., 5), NA)))
phase3$EffComm1 <- factor(phase3$EffComm1)
phase3$EffIndiv_scale <- phase3 %>% select(starts_with("EffIndiv")) %>% rowMeans

EffComm <- clm(EffComm1 ~ usable, data = phase3)
# EffComm_m <- clm(EffComm1 ~ usable, subset = ID_gender == "Men", data = phase3)
```

```
# EffComm_f <- clm(EffComm1 ~ usable, subset = ID_gender == "Women", data = phase3)
EffIndiv_scale <- lm(EffIndiv_scale ~ usable, data = phase3)
# EffIndiv_scale_m <- lm(EffIndiv_scale ~ usable, subset = ID_gender == "Men", data = phase3)
# EffIndiv_scale_f <- lm(EffIndiv_scale ~ usable, subset = ID_gender == "Women", data = phase3)

Eff_scale_table <- t(coef(summary(EffComm))[nrow(coef(summary(EffComm))),])
Eff_scale_table <- rbind(Eff_scale_table, t(coef(summary(EffIndiv_scale))[nrow(coef(summary(EffIndiv_scale))),
Eff_scale_table <- data.frame(cbind(Eff_scale_table), row.names = c('Community scale', 'Individual item'))
colnames(Eff_scale_table) <- c('Coef', 'SE', 't/z', 'p')
# Eff_scale_table_m <- t(coef(summary(EffComm_m))[nrow(coef(summary(EffComm_m))),])
# Eff_scale_table_m <- rbind(Eff_scale_table_m, t(coef(summary(EffIndiv_scale_m))[nrow(coef(summary(EffIndiv_s
# Eff_scale_table_f <- t(coef(summary(EffComm_f))[nrow(coef(summary(EffComm_f))),])
# Eff_scale_table_f <- rbind(Eff_scale_table_f, t(coef(summary(EffIndiv_scale_f))[nrow(coef(summary(EffIndiv_s
# Eff_scale_table <- data.frame(cbind(Eff_scale_table_m, Eff_scale_table_f), row.names = c('Community scale',

#colnames(Eff_scale_table) <- c('m.Coef', 'm.SE', 'm.t/z', 'm.p','f.Coef', 'f.SE', 'f.t/z', 'f.p')

Eff_Descript <- phase3 %>% select(matches("EffIndiv\\d"), matches("EffComm\\d")) %>% mutate_all(funs(if_else(a
```

```
print(xtable(Eff_scale_table, "Efficacy - individual scale and single community item", auto = TRUE, digits = c
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:24 2018

	Coef	SE	t/z	p
Community scale	0.30	0.33	0.93	0.3513
Individual item	0.14	0.15	0.93	0.3522

Table 1: Efficacy - individual scale and single community item

```
tableNominal(vars = as.data.frame(Eff_Descript), group = ID_gender[,1], cumsum = FALSE, longtable = TRUE, cap
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:24 2018

Variable	**Levels**	$\mathbf{n}_{\text{Men}}$	$\%_{\text{Men}}$	$\mathbf{n}_{\text{Women}}$	$\%_{\text{Women}}$	$\mathbf{n}_{\text{all}}$	$\%_{\text{all}}$
EffIndiv1	0	33	18.4	51	27.4	84	23.0
	1	146	81.6	135	72.6	281	77.0
	all	179	100.0	186	100.0	365	100.0
EffIndiv2	0	34	19.0	68	36.8	102	28.0
	1	145	81.0	117	63.2	262	72.0
	all	179	100.0	185	100.0	364	100.0
EffIndiv3	0	69	38.5	124	66.7	193	52.9
	1	110	61.5	62	33.3	172	47.1
	all	179	100.0	186	100.0	365	100.0
EffComm1	0	102	57.0	119	64.3	221	60.7
	1	77	43.0	66	35.7	143	39.3
	all	179	100.0	185	100.0	364	100.0

Table 2: Descriptive statistics for efficacy items. Moderately and very true collapsed, a little bit true and not true at all collapsed.

```
phase3 %<>% rename(GenRel1 = Q25, GenRel2 = Q26, GenRel3 = Q27, GenRel4 = Q28, GenRel5 = Q35, GenRel6 = Q36, G

phase3 %<>% mutate_at(vars(starts_with("GenRel")), funs(replace(., equals(., 5), NA)))
rev_code <- c('GenRel1', 'GenRel2', 'GenRel5', 'GenRel6', 'GenRel7', 'GenRel8', 'GenRel11', 'GenRel12')
phase3 %<>% mutate_at(rev_code, funs(dplyr::recode(as.numeric(.), `1` = 4, `2` = 3, `3` = 2, `4` = 1)))

GenRel_comm_names <- c('GenRel1', 'GenRel3', 'GenRel5', 'GenRel7', 'GenRel9', 'GenRel11')
GenRel_indiv_names <- c('GenRel2', 'GenRel4', 'GenRel6', 'GenRel8', 'GenRel10', 'GenRel12')

# there is a lot of missing data in GenRel_comm items but never more than 2 items per subject so we won't excl
phase3$GenRel_comm <- phase3 %>% select(GenRel_comm_names) %>% rowMeans(na.rm = TRUE)
phase3$GenRel_indiv <- phase3 %>% select(GenRel_indiv_names) %>% rowMeans(na.rm = TRUE)
GenRel_comm_scale <- lm(GenRel_comm ~ usable, data = phase3)
```

```r
GenRel_indiv_scale <- lm(GenRel_indiv ~ usable, data = phase3)
# GenRel_comm_scale_m <- lm(GenRel_comm ~ usable, subset = ID_gender == "Men", data = phase3)
# GenRel_comm_scale_f <- lm(GenRel_comm ~ usable, subset = ID_gender == "Women", data = phase3)
# GenRel_indiv_scale_m <- lm(GenRel_indiv ~ usable, subset = ID_gender == "Men", data = phase3)
# GenRel_indiv_scale_f <- lm(GenRel_indiv ~ usable, subset = ID_gender == "Women", data = phase3)

phase3 %<>% mutate_at(c(GenRel_comm_names, GenRel_indiv_names), funs(factor(.)))

GenRel_comm_models <- lapply(GenRel_comm_names, function(x) clm(as.formula(paste0(x, ' ~ usable')), data = pha
GenRel_indiv_models <- lapply(GenRel_indiv_names, function(x) clm(as.formula(paste0(x, ' ~ usable')), data = pl
# GenRel_comm_models_m <- lapply(GenRel_comm_names, function(x) clm(as.formula(paste0(x, ' ~ usable')), subset
# GenRel_comm_models_f <- lapply(GenRel_comm_names, function(x) clm(as.formula(paste0(x, ' ~ usable')), subset
# GenRel_indiv_models_m <- lapply(GenRel_indiv_names, function(x) clm(as.formula(paste0(x, ' ~ usable')), subs
# GenRel_indiv_models_f <- lapply(GenRel_indiv_names, function(x) clm(as.formula(paste0(x, ' ~ usable')), subs

GenRel_comm_table <- t(sapply(GenRel_comm_models, function(x) coef(summary(x))[nrow(coef(summary(x))),]))
GenRel_comm_table <- data.frame(GenRel_comm_table, row.names = GenRel_comm_names)
colnames(GenRel_comm_table) <- c('Coef', 'SE', 'Z', 'p')
# GenRel_comm_table_m <- t(sapply(GenRel_comm_models_m, function(x) coef(summary(x))[nrow(coef(summary(x))),])
# GenRel_comm_table_f <- t(sapply(GenRel_comm_models_f, function(x) coef(summary(x))[nrow(coef(summary(x))),])
# GenRel_comm_table <- data.frame(cbind(GenRel_comm_table_m, GenRel_comm_table_f), row.names = GenRel_comm_nam
# colnames(GenRel_comm_table) <- c('m.Coef', 'm.SE', 'm.Z', 'm.p','f.Coef', 'f.SE', 'f.Z', 'f.p')

GenRel_indiv_table <- t(sapply(GenRel_indiv_models, function(x) coef(summary(x))[nrow(coef(summary(x))),]))
GenRel_indiv_table <- data.frame(GenRel_indiv_table, row.names = GenRel_indiv_names)
colnames(GenRel_indiv_table) <- c('Coef', 'SE', 'Z', 'p')
# GenRel_indiv_table_m <- t(sapply(GenRel_indiv_models_m, function(x) coef(summary(x))[nrow(coef(summary(x))),
# GenRel_indiv_table_f <- t(sapply(GenRel_indiv_models_f, function(x) coef(summary(x))[nrow(coef(summary(x))),
# GenRel_indiv_table <- data.frame(cbind(GenRel_indiv_table_m, GenRel_indiv_table_f), row.names = GenRel_indiv
# colnames(GenRel_indiv_table) <- c('m.Coef', 'm.SE', 'm.Z', 'm.p','f.Coef', 'f.SE', 'f.Z', 'f.p')

GenRel_scale_table <- coef(summary(GenRel_comm_scale))[nrow(coef(summary(GenRel_comm_scale))),]
GenRel_scale_table <- bind_rows(GenRel_scale_table, coef(summary(GenRel_indiv_scale))[nrow(coef(summary(GenRel
GenRel_scale_table <- data.frame(GenRel_scale_table, row.names = c('Community scale', 'Individual scale'))
colnames(GenRel_scale_table) <- c('Coef', 'SE', 't', 'p')
# GenRel_scale_table_m <- coef(summary(GenRel_comm_scale_m))[nrow(coef(summary(GenRel_comm_scale_m))),]
# GenRel_scale_table_m <- bind_rows(GenRel_scale_table_m, coef(summary(GenRel_indiv_scale_m))[nrow(coef(summar
# GenRel_scale_table_f <- coef(summary(GenRel_comm_scale_f))[nrow(coef(summary(GenRel_comm_scale_f))),]
# GenRel_scale_table_f <- bind_rows(GenRel_scale_table_f, coef(summary(GenRel_indiv_scale_f))[nrow(coef(summar
# GenRel_scale_table <- data.frame(bind_cols(GenRel_scale_table_m, GenRel_scale_table_f), row.names = c('Commu
# colnames(GenRel_scale_table) <- c('m.Coef', 'm.SE', 'm.t', 'm.p','f.Coef', 'f.SE', 'f.t', 'f.p')

GenRelDescript <- phase3 %>% select(matches("GenRel\\d")) %>% mutate_all(funs(as.numeric))
GenRelDescript %<>% mutate_at(rev_code, funs(dplyr::recode(as.numeric(.), `1` = 4, `2` = 3, `3` = 2, `4` = 1))
GenRelDescript %<>% mutate_all(funs(if_else(. > 2, 1, 0)))
```

```r
print(xtable(GenRel_comm_table, "Attitudes towards gender relations - community items", auto = TRUE, digits =
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:24 2018

	Coef	SE	Z	p
GenRel1	-0.61	0.33	-1.86	0.0636
GenRel3	-0.68	0.33	-2.04	0.0409
GenRel5	-0.09	0.32	-0.27	0.7876
GenRel7	0.35	0.35	1.00	0.3149
GenRel9	-1.01	0.35	-2.91	0.0036
GenRel11	-0.05	0.33	-0.15	0.8786

Table 3: Attitudes towards gender relations - community items

```
print(xtable(GenRel_indiv_table, "Attitudes towards gender relations - individual items", auto = TRUE, digits =
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:24 2018

	Coef	SE	Z	p
GenRel2	0.11	0.32	0.34	0.7346
GenRel4	-0.56	0.33	-1.71	0.0868
GenRel6	0.27	0.32	0.82	0.4115
GenRel8	-0.05	0.35	-0.13	0.8930
GenRel10	-0.78	0.33	-2.34	0.0193
GenRel12	-0.28	0.33	-0.83	0.4044

Table 4: Attitudes towards gender relations - individual items

```
print(xtable(GenRel_scale_table, "Attitudes towards gender relations - scales", auto = TRUE, digits = c(2,2,2,
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:24 2018

	Coef	SE	t	p
Community scale	-0.16	0.10	-1.57	0.1185
Individual scale	-0.13	0.12	-1.13	0.2613

Table 5: Attitudes towards gender relations - scales

```
tableNominal(vars = as.data.frame(GenRelDescript), group = ID_gender[,1], cumsum = FALSE, longtable = TRUE, ca
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:25 2018

Variable	**Levels**	$\mathbf{n}_{\text{Men}}$	$\%_{\text{Men}}$	$\mathbf{n}_{\text{Women}}$	$\%_{\text{Women}}$	$\mathbf{n}_{\text{all}}$	$\%_{\text{all}}$
GenRel1	0	72	40.9	29	15.6	101	27.9
	1	104	59.1	157	84.4	261	72.1
	all	176	100.0	186	100.0	362	100.0
GenRel2	0	87	49.1	114	61.3	201	55.4
	1	90	50.9	72	38.7	162	44.6
	all	177	100.0	186	100.0	363	100.0
GenRel3	0	85	48.3	143	76.9	228	63.0
	1	91	51.7	43	23.1	134	37.0
	all	176	100.0	186	100.0	362	100.0
GenRel4	0	70	39.3	56	30.1	126	34.6
	1	108	60.7	130	69.9	238	65.4
	all	178	100.0	186	100.0	364	100.0
GenRel5	0	83	48.0	44	23.9	127	35.6
	1	90	52.0	140	76.1	230	64.4
	all	173	100.0	184	100.0	357	100.0
GenRel6	0	91	51.4	123	66.1	214	59.0
	1	86	48.6	63	33.9	149	41.0
	all	177	100.0	186	100.0	363	100.0
GenRel7	0	158	92.4	120	66.7	278	79.2
	1	13	7.6	60	33.3	73	20.8
	all	171	100.0	180	100.0	351	100.0
GenRel8	0	156	87.2	159	86.4	315	86.8
	1	23	12.8	25	13.6	48	13.2
	all	179	100.0	184	100.0	363	100.0
GenRel9	0	118	69.0	135	73.4	253	71.3
	1	53	31.0	49	26.6	102	28.7
	all	171	100.0	184	100.0	355	100.0
GenRel10	0	114	63.7	82	44.3	196	53.9
	1	65	36.3	103	55.7	168	46.1
	all	179	100.0	185	100.0	364	100.0
GenRel11	0	78	44.1	57	31.8	135	37.9
	1	99	55.9	122	68.2	221	62.1
	all	177	100.0	179	100.0	356	100.0
GenRel12	0	85	47.5	94	50.5	179	49.0
	1	94	52.5	92	49.5	186	51.0
	all	179	100.0	186	100.0	365	100.0

Table 6: Descriptive statistics for attitudes towards gender relations items. Agree and strongly agree collapsed.

```
phase3 %<>% rename(AcceptIPA1 = Q46, AcceptIPA2 = Q47, AcceptIPA3 = Q48, AcceptIPA4 = Q49, AcceptIPA5 = Q50, A
AcceptIPA_names <- phase3 %>% select(starts_with("AcceptIPA")) %>% names
phase3 %<>% mutate_at(AcceptIPA_names, funs(replace(., equals(., 2), 0)))
phase3 %<>% mutate_at(AcceptIPA_names, funs(replace(., equals(., 3), NA)))
phase3$AcceptIPA_scale <- phase3 %>% select(starts_with("AcceptIPA")) %>% rowSums

AcceptIPA_scale <- lm(AcceptIPA_scale ~ usable, data = phase3)
AcceptIPA_scale_binomial <- glm(cbind(AcceptIPA_scale, 9 - AcceptIPA_scale) ~ usable, data=phase3, family=bino
# AcceptIPA_scale_m <- lm(AcceptIPA_scale ~ usable, subset = ID_gender == "Men", data = phase3)
# AcceptIPA_scale_f <- lm(AcceptIPA_scale ~ usable, subset = ID_gender == "Women", data = phase3)
# AcceptIPA_scale_m_binomial <- glm(cbind(AcceptIPA_scale, 9 - AcceptIPA_scale) ~ usable, data=phase3, subset=
# AcceptIPA_scale_f_binomial <- glm(cbind(AcceptIPA_scale, 9 - AcceptIPA_scale) ~ usable, data=phase3, subset=

AcceptIPA_items <- lapply(AcceptIPA_names, function(x) glm(as.formula(paste0(x, ' ~ usable')), family = binomi
# AcceptIPA_items_m <- lapply(AcceptIPA_names, function(x) glm(as.formula(paste0(x, ' ~ usable')), subset = ID
# AcceptIPA_items_f <- lapply(AcceptIPA_names, function(x) glm(as.formula(paste0(x, ' ~ usable')), subset = ID

AcceptIPA_table <- t(sapply(AcceptIPA_items, function(x) coef(summary(x))[nrow(coef(summary(x))),]))
AcceptIPA_table <- rbind(AcceptIPA_table, t(coef(summary(AcceptIPA_scale))[nrow(coef(summary(AcceptIPA_scale))
                                            t(coef(summary(AcceptIPA_scale_binomial))[nrow(coef(summary(Ac
AcceptIPA_table <- data.frame(AcceptIPA_table, row.names = c(AcceptIPA_names, 'Accept IPA', 'Accept IPA binomi
colnames(AcceptIPA_table) <- c('Coef', 'SE', 't/z', 'p')
# AcceptIPA_table_m <- t(sapply(AcceptIPA_items_m, function(x) coef(summary(x))[nrow(coef(summary(x))),]))
# AcceptIPA_table_f <- t(sapply(AcceptIPA_items_f, function(x) coef(summary(x))[nrow(coef(summary(x))),]))
# AcceptIPA_table_m <- rbind(AcceptIPA_table_m, t(coef(summary(AcceptIPA_scale_m))[nrow(coef(summary(AcceptIPA
#                                                 t(coef(summary(AcceptIPA_scale_m_binomial))[nrow(coef(summar
# AcceptIPA_table_f <- rbind(AcceptIPA_table_f, t(coef(summary(AcceptIPA_scale_f))[nrow(coef(summary(AcceptIPA
#                                                 t(coef(summary(AcceptIPA_scale_f_binomial))[nrow(coef(summar
# AcceptIPA_table <- data.frame(cbind(AcceptIPA_table_m, AcceptIPA_table_f), row.names = c(AcceptIPA_names, 'A
# colnames(AcceptIPA_table) <- c('m.Coef', 'm.SE', 'm.t/z', 'm.p','f.Coef', 'f.SE', 'f.t/z', 'f.p')
```

```
print(xtable(AcceptIPA_table, "Acceptability of IPA - individual items and then scale.", auto = TRUE, digits =
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:25 2018

	Coef	SE	t/z	p
AcceptIPA1	0.06	0.55	0.11	0.9143
AcceptIPA2	0.76	0.43	1.77	0.0766
AcceptIPA3	0.70	0.37	1.88	0.0607
AcceptIPA4	0.74	0.37	1.99	0.0467
AcceptIPA5	0.08	0.37	0.22	0.8264
AcceptIPA6	-1.01	0.72	-1.41	0.1584
AcceptIPA7	0.46	0.75	0.61	0.5429
AcceptIPA8	0.15	0.37	0.40	0.6913
AcceptIPA9	0.57	0.37	1.53	0.1262
Accept IPA	0.71	0.41	1.74	0.0827
Accept IPA binomial model	0.39	0.14	2.85	0.0044

Table 7: Acceptability of IPA - individual items and then scale.

```
tableNominal(vars = phase3 %>% select(matches("AcceptIPA\\d")) %>% as.data.frame, group = ID_gender[,1], cumsu
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:25 2018

Variable	**Levels**	$\mathbf{n}_{\text{Men}}$	$\%_{\text{Men}}$	$\mathbf{n}_{\text{Women}}$	$\%_{\text{Women}}$	$\mathbf{n}_{\text{all}}$	$\%_{\text{all}}$
AcceptIPA1	0	144	80.5	175	94.1	319	87.4
	1	35	19.6	11	5.9	46	12.6
	all	179	100.0	186	100.0	365	100.0

AcceptIPA2	0	125	69.8	144	77.8	269	73.9
	1	54	30.2	41	22.2	95	26.1
	all	179	100.0	185	100.0	364	100.0
AcceptIPA3	0	107	59.8	113	61.4	220	60.6
	1	72	40.2	71	38.6	143	39.4
	all	179	100.0	184	100.0	363	100.0
AcceptIPA4	0	108	60.3	123	66.1	231	63.3
	1	71	39.7	63	33.9	134	36.7
	all	179	100.0	186	100.0	365	100.0
AcceptIPA5	0	112	62.6	125	67.2	237	64.9
	1	67	37.4	61	32.8	128	35.1
	all	179	100.0	186	100.0	365	100.0
AcceptIPA6	0	162	91.0	173	94.0	335	92.5
	1	16	9.0	11	6.0	27	7.5
	all	178	100.0	184	100.0	362	100.0
AcceptIPA7	0	163	91.1	176	94.6	339	92.9
	1	16	8.9	10	5.4	26	7.1
	all	179	100.0	186	100.0	365	100.0
AcceptIPA8	0	120	67.0	106	57.0	226	61.9
	1	59	33.0	80	43.0	139	38.1
	all	179	100.0	186	100.0	365	100.0
AcceptIPA9	0	120	67.4	83	44.9	203	55.9
	1	58	32.6	102	55.1	160	44.1
	all	178	100.0	185	100.0	363	100.0

Table 8: Descriptive statistics for acceptability of IPA items.

```
split_into_vars <- function(df, var_name, max) {
  for(i in 1:max) {
    df[[paste0(var_name,'_',i)]] <- NA
  }
  splitted <- strsplit(df[[var_name]],',', fixed = TRUE)
  for(i in 1:length(splitted)) {
    for(j in splitted[[i]]) {
      if(!is.na(j)) {
        df[[paste0(var_name,'_',j)]][i] <- 1
      }
    }
  }
  return(df)
}

phase3 <- split_into_vars(phase3, 'Q61', 10)
phase3 %<>% mutate_at(vars(starts_with("Q61_")), funs(replace(., is.na(.), 0)))
phase3 %<>% mutate_at(vars(starts_with("Q61_"),-Q61_9), funs(ifelse(Q61_9==1, NA, .)))
phase3 %<>% select(-Q61_9)

phase3 %<>% rename(ChildIPA1b_seek_help_family_friends = Q61_1, ChildIPA1b_seek_help_org = Q61_2, ChildIPA1b_s

ChildIPA1b_names <- phase3 %>% select(starts_with("ChildIPA1b_")) %>% names

ChildIPA1b_models <- lapply(ChildIPA1b_names, function(x) glm(as.formula(paste0(x, ' ~ usable')), family = bin

phase3$ChildIPA1b_seek_scale <- phase3 %>% select(starts_with("ChildIPA1b_seek_")) %>% rowSums
phase3$ChildIPA1b_seek_scale_size <- 3
ChildIPA1b_seek_scale <- glm(cbind(ChildIPA1b_seek_scale, ChildIPA1b_seek_scale_size - ChildIPA1b_seek_scale)

ChildIPA23_names <- c('ChildIPA2', 'ChildIPA3')
phase3 %<>% mutate_at(ChildIPA23_names, funs(replace(., equals(., 5), NA)))
phase3 %<>% mutate_at(ChildIPA23_names, funs(factor(.)))

ChildIPA23_models <- lapply(ChildIPA23_names, function(x) clm(as.formula(paste0(x, ' ~ usable')), data = phase
```

```
ChildIPA_table <- t(sapply(ChildIPA1b_models, function(x) coef(summary(x))[nrow(coef(summary(x))),]))
ChildIPA_table <- rbind(ChildIPA_table, t(coef(summary(ChildIPA1b_seek_scale))[nrow(coef(summary(ChildIPA1b_se
t(sapply(ChildIPA23_models, function(x) coef(summary(x))[nrow(coef(summary(x))),]))


ChildIPA_table <- data.frame(ChildIPA_table, row.names = c(ChildIPA1b_names, 'ChildIPA1b_seek_scale', ChildIPA
colnames(ChildIPA_table) <- c('Coef', 'SE', 'z', 'p')

# ChildIPA_table <- data.frame(cbind(ChildIPA_table_m, ChildIPA_table_f), row.names = c(ChildIPA1b_names, 'Chi
# colnames(ChildIPA_table) <- c('m.Coef', 'm.SE', 'm.t/z', 'm.p','f.Coef', 'f.SE', 'f.t/z', 'f.p')
```

```
print(xtable(ChildIPA_table, "IPA and children - Q61 items, 3 item help-seeking subscale, followed by Q58 and
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:25 2018

	Coef	SE	z	p
ChildIPA1b_seek_help_family_friends	-0.95	0.48	-1.98	0.0480
ChildIPA1b_seek_help_org	-0.80	0.89	-0.90	0.3666
ChildIPA1b_seek_help_authorities	0.00	5385.22	0.00	1.0000
ChildIPA1b_leave_relationship	1.37	0.60	2.28	0.0224
ChildIPA1b_tolerate_avoid_divorce	0.30	0.62	0.48	0.6282
ChildIPA1b_tolerate_hope_not_hurt_children	0.12	0.46	0.27	0.7861
ChildIPA1b_dont_tell	-0.40	0.57	-0.70	0.4829
ChildIPA1b_none_of_above	0.67	0.73	0.92	0.3570
ChildIPA1b_tell_children_leave	0.27	0.39	0.70	0.4854
ChildIPA1b_seek_scale	-0.83	0.40	-2.06	0.0396
ChildIPA2	1.05	0.86	1.22	0.2209
ChildIPA3	0.13	0.36	0.38	0.7064

Table 9: IPA and children - Q61 items, 3 item help-seeking subscale, followed by Q58 and Q270.

```
tableNominal(vars = phase3 %>% select(starts_with("ChildIPA1b")) %>% as.data.frame, group = ID_gender[,1], cum
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:25 2018

Variable	**Levels**	$\mathbf{n}_{\text{Men}}$	$\%_{\text{Men}}$	$\mathbf{n}_{\text{Women}}$	$\%_{\text{Women}}$	$\mathbf{n}_{\text{all}}$	$\%_{\text{all}}$
ChildIPA1b_seek_help_family_friends	0	134	77.5	130	71.0	264	74.2
	1	39	22.5	53	29.0	92	25.8
	all	173	100.0	183	100.0	356	100.0
ChildIPA1b_seek_help_org	0	172	99.4	167	91.3	339	95.2
	1	1	0.6	16	8.7	17	4.8
	all	173	100.0	183	100.0	356	100.0
ChildIPA1b_seek_help_authorities	0	173	100.0	178	97.3	351	98.6
	1	0	0.0	5	2.7	5	1.4
	all	173	100.0	183	100.0	356	100.0
ChildIPA1b_leave_relationship	0	173	100.0	147	80.3	320	89.9
	1	0	0.0	36	19.7	36	10.1
	all	173	100.0	183	100.0	356	100.0
ChildIPA1b_tolerate_avoid_divorce	0	172	99.4	140	76.5	312	87.6
	1	1	0.6	43	23.5	44	12.4
	all	173	100.0	183	100.0	356	100.0
ChildIPA1b_tolerate_hope_not_hurt_children	0	168	97.1	131	71.6	299	84.0
	1	5	2.9	52	28.4	57	16.0
	all	173	100.0	183	100.0	356	100.0
ChildIPA1b_dont_tell	0	164	94.8	142	77.6	306	86.0
	1	9	5.2	41	22.4	50	14.0
	all	173	100.0	183	100.0	356	100.0
ChildIPA1b_none_of_above	0	170	98.3	171	93.4	341	95.8
	1	3	1.7	12	6.6	15	4.2
	all	173	100.0	183	100.0	356	100.0
ChildIPA1b_tell_children_leave	0	47	27.2	167	91.3	214	60.1
	1	126	72.8	16	8.7	142	39.9
	all	173	100.0	183	100.0	356	100.0
ChildIPA1b_seek_scale	0	133	76.9	123	67.2	256	71.9

	1	40	23.1	46	25.1	86	24.2
	2	0	0.0	14	7.6	14	3.9
	all	173	100.0	183	100.0	356	100.0
ChildIPA1b_seek_scale_size	3	179	100.0	186	100.0	365	100.0
	all	179	100.0	186	100.0	365	100.0

Table 10: Descriptive statistics for child IPA 1b/Q61 options.

```
phase3 %<>% rename(HelpAtt1a = Q63, HelpAtt2a = Q65)
HelpAtt1a2a_names <- c('HelpAtt1a', 'HelpAtt2a')
phase3 %<>% mutate_at(HelpAtt1a2a_names, funs(replace(., equals(., 6), NA)))
phase3 %<>% mutate_at(HelpAtt1a2a_names, funs(factor(.)))

HelpAtt1a2a_models <- lapply(HelpAtt1a2a_names, function(x) clm(as.formula(paste0(x, ' ~ usable')), data = pha
# HelpAtt_models_m <- lapply(HelpAtt1a2a_names, function(x) clm(as.formula(paste0(x, ' ~ usable')), subset = I
# HelpAtt_models_f <- lapply(HelpAtt1a2a_names, function(x) clm(as.formula(paste0(x, ' ~ usable')), subset = I

phase3 <- split_into_vars(phase3, 'Q64', 10)
phase3 %<>% mutate_at(vars(starts_with("Q64_"), -ends_with("_TEXT")), funs(replace(., is.na(.), 0)))
phase3 %<>% mutate_at(vars(starts_with("Q64_"), -ends_with("_TEXT")), funs(ifelse(is.na(Q64), NA, .)))
phase3 <- split_into_vars(phase3, 'Q66', 10)
phase3 %<>% mutate_at(vars(starts_with("Q66_"), -ends_with("_TEXT")), funs(replace(., is.na(.), 0)))
phase3 %<>% mutate_at(vars(starts_with("Q66_"), -ends_with("_TEXT")), funs(ifelse(is.na(Q66), NA, .)))

phase3 %<>% rename(HelpAtt1b_family = Q64_1, HelpAtt1b_partners_family = Q64_2, HelpAtt1b_friends = Q64_3, Hel

HelpAtt1b2b_names <- phase3 %>% select(starts_with("HelpAtt1b_"), starts_with("HelpAtt2b_")) %>% names
HelpAtt1b2b_models <- lapply(HelpAtt1b2b_names, function(x) glm(as.formula(paste0(x, ' ~ usable')), family = b

## Warning: glm.fit: algorithm did not converge

## Warning: glm.fit: algorithm did not converge

## Warning: glm.fit: algorithm did not converge
phase3 <- split_into_vars(phase3, 'Q70', 10)
phase3 %<>% mutate_at(vars(starts_with("Q70_")), funs(replace(., is.na(.), 0)))
phase3 %<>% mutate_at(vars(starts_with("Q70_")), funs(ifelse(is.na(Q70), NA, .)))
phase3 %<>% mutate_at(vars(starts_with("Q70_"),-Q70_10), funs(ifelse(Q70_10==1, NA, .)))
phase3 %<>% select(-Q70_10)
phase3 %<>% rename(HelpAtt1d_ashamed = Q70_1, HelpAtt1d_stigma = Q70_2, HelpAtt1d_dont_know_where = Q70_3, Hel

HelpAtt1d_names <- phase3 %>% select(starts_with("HelpAtt1d_")) %>% names
HelpAtt1d_models <- lapply(HelpAtt1d_names, function(x) glm(as.formula(paste0(x, ' ~ usable')), family = binom

phase3 <- split_into_vars(phase3, 'Q72', 9)
phase3 %<>% mutate_at(vars(starts_with("Q72_")), funs(replace(., is.na(.), 0)))
phase3 %<>% mutate_at(vars(starts_with("Q72_")), funs(ifelse(is.na(Q72), NA, .)))
phase3 %<>% mutate_at(vars(starts_with("Q72_"),-Q72_9), funs(ifelse(Q72_9==1, NA, .)))
phase3 %<>% select(-Q72_9)
phase3 %<>% rename(HelpAtt2d_ashamed = Q72_1, HelpAtt2d_stigma = Q72_2, HelpAtt2d_dont_know_where = Q72_3, Hel

HelpAtt2d_names <- phase3 %>% select(starts_with("HelpAtt2d_")) %>% names
HelpAtt2d_models <- lapply(HelpAtt2d_names, function(x) glm(as.formula(paste0(x, ' ~ usable')), family = binom

## Warning: glm.fit: algorithm did not converge
phase3 <- split_into_vars(phase3, 'Q68', 17)
phase3 %<>% mutate_at(vars(starts_with("Q68_")), funs(replace(., is.na(.), 0)))
phase3 %<>% mutate_at(vars(starts_with("Q68_")), funs(ifelse(is.na(Q68), NA, .)))
phase3 %<>% mutate_at(vars(starts_with("Q68_"),-Q68_17), funs(ifelse(Q68_17==1, NA, .)))
phase3 %<>% select(-Q68_17)
```

```
phase3 %<>% rename(HelpAtt3b_dont_get_involved = Q68_1, HelpAtt3b_separate_couple = Q68_2, HelpAtt3b_talk_to_w

HelpAtt3d_names <- phase3 %>% select(starts_with("HelpAtt3b_")) %>% names
HelpAtt3d_models <- lapply(HelpAtt3d_names, function(x) glm(as.formula(paste0(x, ' ~ usable')), family = binom

HelpAtt1a2a_table <- data.frame(t(sapply(HelpAtt1a2a_models, function(x) coef(summary(x))[nrow(coef(summary(x)
colnames(HelpAtt1a2a_table) <- c('Coef', 'SE', 'Z', 'p')
HelpAtt1b2b_table <- data.frame(t(sapply(HelpAtt1b2b_models, function(x) coef(summary(x))[nrow(coef(summary(x)
colnames(HelpAtt1b2b_table) <- c('Coef', 'SE', 'Z', 'p')
HelpAtt1d_table <- data.frame(t(sapply(HelpAtt1d_models, function(x) coef(summary(x))[nrow(coef(summary(x))),]
colnames(HelpAtt1d_table) <- c('Coef', 'SE', 'Z', 'p')
HelpAtt2d_table <- data.frame(t(sapply(HelpAtt2d_models, function(x) coef(summary(x))[nrow(coef(summary(x))),]
colnames(HelpAtt2d_table) <- c('Coef', 'SE', 'Z', 'p')
HelpAtt3d_table <- data.frame(t(sapply(HelpAtt3d_models, function(x) coef(summary(x))[nrow(coef(summary(x))),]
colnames(HelpAtt3d_table) <- c('Coef', 'SE', 'Z', 'p')
```

```
print(xtable(HelpAtt1a2a_table, "Help-seeking attitudes - Q63, Q65", auto = TRUE, digits = c(2,2,2,2,4)), type
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:26 2018

	Coef	SE	Z	p
HelpAtt1a	0.16	0.35	0.45	0.6539
HelpAtt2a	-0.03	0.34	-0.08	0.9380

Table 11: Help-seeking attitudes - Q63, Q65

```
print(xtable(HelpAtt1b2b_table, "Help-seeking attitudes - Q64, Q66", auto = TRUE, digits = c(2,2,2,2,4)), type
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:26 2018

	Coef	SE	Z	p
HelpAtt1b_family	0.02	0.42	0.04	0.9673
HelpAtt1b_partners_family	0.67	0.42	1.58	0.1149
HelpAtt1b_friends	-0.08	0.53	-0.15	0.8788
HelpAtt1b_relig_leaders	-17.50	2559.16	-0.01	0.9945
HelpAtt1b_police	16.72	2643.09	0.01	0.9950
HelpAtt1b_soc_inst	0.49	0.76	0.64	0.5224
HelpAtt1b_laywer	0.00	6065.68	0.00	1.0000
HelpAtt1b_doctor	18.72	7184.66	0.00	0.9979
HelpAtt1b_mental_health	-0.07	1.43	-0.05	0.9632
HelpAtt1b_other	0.00	6065.68	0.00	1.0000
HelpAtt2b_family	0.30	0.45	0.67	0.5026
HelpAtt2b_partners_family	0.64	0.57	1.11	0.2678
HelpAtt2b_friends	-0.33	0.47	-0.70	0.4859
HelpAtt2b_relig_leaders	-16.62	1700.36	-0.01	0.9922
HelpAtt2b_police	0.00	79631.75	0.00	1.0000
HelpAtt2b_soc_inst	0.43	0.94	0.46	0.6463
HelpAtt2b_laywer	0.00	79631.75	0.00	1.0000
HelpAtt2b_doctor	-18.90	7620.48	-0.00	0.9980
HelpAtt2b_mental_health	-0.00	0.85	-0.00	1.0000
HelpAtt2b_other	0.00	79631.75	0.00	1.0000

Table 12: Help-seeking attitudes - Q64, Q66

```
print(xtable(HelpAtt1d_table, "Help-seeking attitudes - Q70", auto = TRUE, digits = c(2,2,2,2,4)), type = "lat
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:26 2018

```
print(xtable(HelpAtt2d_table, "Help-seeking attitudes - Q72", auto = TRUE, digits = c(2,2,2,2,4)), type = "lat
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:26 2018

	Coef	SE	Z	p
HelpAtt1d_ashamed	-0.03	0.61	-0.06	0.9560
HelpAtt1d_stigma	0.50	0.54	0.92	0.3565
HelpAtt1d_dont_know_where	-0.00	7895.16	-0.00	1.0000
HelpAtt1d_nobody_able_help	0.68	0.59	1.14	0.2543
HelpAtt1d_thinks_private	0.52	0.54	0.95	0.3420
HelpAtt1d_if_partner_find_would_hurt	-0.62	1.26	-0.49	0.6237
HelpAtt1d_worse_for_children	17.35	3292.45	0.01	0.9958
HelpAtt1d_NA_none_of_options_mentioned	1.30	1.19	1.09	0.2758
HelpAtt1d_dont_know	-0.00	96182.69	-0.00	1.0000

Table 13: Help-seeking attitudes - Q70

	Coef	SE	Z	p
HelpAtt2d_ashamed	-0.58	0.63	-0.92	0.3568
HelpAtt2d_stigma	0.13	0.52	0.26	0.7962
HelpAtt2d_dont_know_where	17.10	3086.46	0.01	0.9956
HelpAtt2d_nobody_able_help	0.58	0.63	0.92	0.3568
HelpAtt2d_thinks_private	0.62	0.50	1.23	0.2169
HelpAtt2d_worse_for_children	17.10	3086.46	0.01	0.9956
HelpAtt2d_none_of_options_mentioned	1.96	1.11	1.77	0.0775
HelpAtt2d_dont_know	-0.00	87671.67	-0.00	1.0000

Table 14: Help-seeking attitudes - Q72

```
print(xtable(HelpAtt3d_table, "Help-seeking attitudes - Q68", auto = TRUE, digits = c(2,2,2,2,4)), type = "lat
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:26 2018

	Coef	SE	Z	p
HelpAtt3b_dont_get_involved	-0.53	0.38	-1.41	0.1594
HelpAtt3b_separate_couple	1.02	0.39	2.62	0.0089
HelpAtt3b_talk_to_wife	0.15	0.37	0.41	0.6795
HelpAtt3b_talk_to_husband	-0.02	0.38	-0.05	0.9615
HelpAtt3b_take_children_out	0.84	0.57	1.47	0.1409
HelpAtt3b_call_organization	17.13	2390.76	0.01	0.9943
HelpAtt3b_call_police	17.42	3941.70	0.00	0.9965
HelpAtt3b_lama_seek_help_org	-0.58	0.93	-0.62	0.5328
HelpAtt3b_lama_seek_help_police	18.55	3941.70	0.00	0.9962
HelpAtt3b_lama_seek_help_family_friends	-0.21	0.41	-0.50	0.6161
HelpAtt3b_lama_seek_help_relig_leaders	-0.89	0.89	-1.00	0.3162
HelpAtt3b_bassel_seek_help_org	-17.29	2216.30	-0.01	0.9938
HelpAtt3b_bassel_seek_help_family_friends	0.16	0.43	0.37	0.7141
HelpAtt3b_bassel_seek_help_relig_leaders	-1.13	0.86	-1.32	0.1873
HelpAtt3b_NA_none_of_above	16.42	2390.76	0.01	0.9945

Table 15: Help-seeking attitudes - Q68

```
tableNominal(vars = phase3 %>% select(starts_with("HelpAtt")) %>% as.data.frame, group = ID_gender[,1], cumsum
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:26 2018

Variable	**Levels**	$\mathbf{n}_{\text{Men}}$	$\%_{\text{Men}}$	$\mathbf{n}_{\text{Women}}$	$\%_{\text{Women}}$	$\mathbf{n}_{\text{all}}$	$\%_{\text{all}}$
HelpAtt1a	1	43	24.0	49	26.3	92	25.2
	2	14	7.8	2	1.1	16	4.4
	3	33	18.4	3	1.6	36	9.9
	4	32	17.9	13	7.0	45	12.3
	5	57	31.8	119	64.0	176	48.2
	all	179	100.0	186	100.0	365	100.0
HelpAtt2a	1	54	30.2	71	38.2	125	34.2
	2	11	6.2	0	0.0	11	3.0
	3	36	20.1	3	1.6	39	10.7
	4	29	16.2	14	7.5	43	11.8

	5	49	27.4	98	52.7	147	40.3
	all	179	100.0	186	100.0	365	100.0
HelpAtt1b_family	0	97	71.3	31	22.6	128	46.9
	1	39	28.7	106	77.4	145	53.1
	all	136	100.0	137	100.0	273	100.0
HelpAtt1b_partners_family	0	45	33.1	88	64.2	133	48.7
	1	91	66.9	49	35.8	140	51.3
	all	136	100.0	137	100.0	273	100.0
HelpAtt1b_friends	0	113	83.1	107	78.1	220	80.6
	1	23	16.9	30	21.9	53	19.4
	all	136	100.0	137	100.0	273	100.0
HelpAtt1b_relig_leaders	0	131	96.3	133	97.1	264	96.7
	1	5	3.7	4	2.9	9	3.3
	all	136	100.0	137	100.0	273	100.0
HelpAtt1b_police	0	136	100.0	135	98.5	271	99.3
	1	0	0.0	2	1.5	2	0.7
	all	136	100.0	137	100.0	273	100.0
HelpAtt1b_soc_inst	0	132	97.1	119	86.9	251	91.9
	1	4	2.9	18	13.1	22	8.1
	all	136	100.0	137	100.0	273	100.0
HelpAtt1b_laywer	0	136	100.0	134	97.8	270	98.9
	1	0	0.0	3	2.2	3	1.1
	all	136	100.0	137	100.0	273	100.0
HelpAtt1b_doctor	0	136	100.0	136	99.3	272	99.6
	1	0	0.0	1	0.7	1	0.4
	all	136	100.0	137	100.0	273	100.0
HelpAtt1b_mental_health	0	136	100.0	135	98.5	271	99.3
	1	0	0.0	2	1.5	2	0.7
	all	136	100.0	137	100.0	273	100.0
HelpAtt1b_other	0	135	99.3	135	98.5	270	98.9
	1	1	0.7	2	1.5	3	1.1
	all	136	100.0	137	100.0	273	100.0
HelpAtt2b_family	0	90	72.0	36	31.3	126	52.5
	1	35	28.0	79	68.7	114	47.5
	all	125	100.0	115	100.0	240	100.0
HelpAtt2b_partners_family	0	94	75.2	96	83.5	190	79.2
	1	31	24.8	19	16.5	50	20.8
	all	125	100.0	115	100.0	240	100.0
HelpAtt2b_friends	0	84	67.2	66	57.4	150	62.5
	1	41	32.8	49	42.6	90	37.5
	all	125	100.0	115	100.0	240	100.0
HelpAtt2b_relig_leaders	0	111	88.8	115	100.0	226	94.2
	1	14	11.2	0	0.0	14	5.8
	all	125	100.0	115	100.0	240	100.0
HelpAtt2b_police	0	125	100.0	115	100.0	240	100.0
	all	125	100.0	115	100.0	240	100.0
HelpAtt2b_soc_inst	0	119	95.2	104	90.4	223	92.9
	1	6	4.8	11	9.6	17	7.1
	all	125	100.0	115	100.0	240	100.0
HelpAtt2b_laywer	0	125	100.0	115	100.0	240	100.0
	all	125	100.0	115	100.0	240	100.0
HelpAtt2b_doctor	0	125	100.0	113	98.3	238	99.2
	1	0	0.0	2	1.7	2	0.8
	all	125	100.0	115	100.0	240	100.0
HelpAtt2b_mental_health	0	111	88.8	108	93.9	219	91.2
	1	14	11.2	7	6.1	21	8.8
	all	125	100.0	115	100.0	240	100.0
HelpAtt2b_other	0	125	100.0	113	98.3	238	99.2
	1	0	0.0	2	1.7	2	0.8
	all	125	100.0	115	100.0	240	100.0
HelpAtt1d_ashamed	0	87	74.4	46	68.7	133	72.3
	1	30	25.6	21	31.3	51	27.7
	all	117	100.0	67	100.0	184	100.0
HelpAtt1d_stigma	0	69	59.0	32	47.8	101	54.9
	1	48	41.0	35	52.2	83	45.1
	all	117	100.0	67	100.0	184	100.0
HelpAtt1d_dont_know_where	0	114	97.4	66	98.5	180	97.8

	1	3	2.6	1	1.5	4	2.2
	all	117	100.0	67	100.0	184	100.0
HelpAtt1d_nobody_able_help	0	113	96.6	43	64.2	156	84.8
	1	4	3.4	24	35.8	28	15.2
	all	117	100.0	67	100.0	184	100.0
HelpAtt1d_thinks_private	0	73	62.4	27	40.3	100	54.4
	1	44	37.6	40	59.7	84	45.6
	all	117	100.0	67	100.0	184	100.0
HelpAtt1d_if_partner_find_would_hurt	0	112	95.7	65	97.0	177	96.2
	1	5	4.3	2	3.0	7	3.8
	all	117	100.0	67	100.0	184	100.0
HelpAtt1d_worse_for_children	0	111	94.9	62	92.5	173	94.0
	1	6	5.1	5	7.5	11	6.0
	all	117	100.0	67	100.0	184	100.0
HelpAtt1d_NA_none_of_options_mentioned	0	114	97.4	61	91.0	175	95.1
	1	3	2.6	6	9.0	9	4.9
	all	117	100.0	67	100.0	184	100.0
HelpAtt1d_dont_know	0	117	100.0	67	100.0	184	100.0
	all	117	100.0	67	100.0	184	100.0
HelpAtt2d_ashamed	0	89	73.5	74	85.1	163	78.4
	1	32	26.4	13	14.9	45	21.6
	all	121	100.0	87	100.0	208	100.0
HelpAtt2d_stigma	0	70	57.9	61	70.1	131	63.0
	1	51	42.1	26	29.9	77	37.0
	all	121	100.0	87	100.0	208	100.0
HelpAtt2d_dont_know_where	0	116	95.9	85	97.7	201	96.6
	1	5	4.1	2	2.3	7	3.4
	all	121	100.0	87	100.0	208	100.0
HelpAtt2d_nobody_able_help	0	112	92.6	51	58.6	163	78.4
	1	9	7.4	36	41.4	45	21.6
	all	121	100.0	87	100.0	208	100.0
HelpAtt2d_thinks_private	0	83	68.6	23	26.4	106	51.0
	1	38	31.4	64	73.6	102	49.0
	all	121	100.0	87	100.0	208	100.0
HelpAtt2d_worse_for_children	0	121	100.0	85	97.7	206	99.0
	1	0	0.0	2	2.3	2	1.0
	all	121	100.0	87	100.0	208	100.0
HelpAtt2d_none_of_options_mentioned	0	118	97.5	80	92.0	198	95.2
	1	3	2.5	7	8.1	10	4.8
	all	121	100.0	87	100.0	208	100.0
HelpAtt2d_dont_know	0	121	100.0	87	100.0	208	100.0
	all	121	100.0	87	100.0	208	100.0
HelpAtt3b_dont_get_involved	0	128	77.6	112	60.2	240	68.4
	1	37	22.4	74	39.8	111	31.6
	all	165	100.0	186	100.0	351	100.0
HelpAtt3b_separate_couple	0	65	39.4	126	67.7	191	54.4
	1	100	60.6	60	32.3	160	45.6
	all	165	100.0	186	100.0	351	100.0
HelpAtt3b_talk_to_wife	0	109	66.1	81	43.5	190	54.1
	1	56	33.9	105	56.5	161	45.9
	all	165	100.0	186	100.0	351	100.0
HelpAtt3b_talk_to_husband	0	110	66.7	89	47.9	199	56.7
	1	55	33.3	97	52.1	152	43.3
	all	165	100.0	186	100.0	351	100.0
HelpAtt3b_take_children_out	0	134	81.2	160	86.0	294	83.8
	1	31	18.8	26	14.0	57	16.2
	all	165	100.0	186	100.0	351	100.0
HelpAtt3b_call_organization	0	164	99.4	180	96.8	344	98.0
	1	1	0.6	6	3.2	7	2.0
	all	165	100.0	186	100.0	351	100.0
HelpAtt3b_call_police	0	164	99.4	184	98.9	348	99.2
	1	1	0.6	2	1.1	3	0.8
	all	165	100.0	186	100.0	351	100.0
HelpAtt3b_lama_seek_help_org	0	154	93.3	176	94.6	330	94.0
	1	11	6.7	10	5.4	21	6.0
	all	165	100.0	186	100.0	351	100.0
HelpAtt3b_lama_seek_help_police	0	157	95.2	185	99.5	342	97.4

	1	8	4.8	1	0.5	9	2.6
	all	165	100.0	186	100.0	351	100.0
HelpAtt3b_lama_seek_help_family_friends	0	55	33.3	164	88.2	219	62.4
	1	110	66.7	22	11.8	132	37.6
	all	165	100.0	186	100.0	351	100.0
HelpAtt3b_lama_seek_help_relig_leaders	0	150	90.9	183	98.4	333	94.9
	1	15	9.1	3	1.6	18	5.1
	all	165	100.0	186	100.0	351	100.0
HelpAtt3b_bassel_seek_help_org	0	157	95.2	180	96.8	337	96.0
	1	8	4.8	6	3.2	14	4.0
	all	165	100.0	186	100.0	351	100.0
HelpAtt3b_bassel_seek_help_family_friends	0	70	42.4	173	93.0	243	69.2
	1	95	57.6	13	7.0	108	30.8
	all	165	100.0	186	100.0	351	100.0
HelpAtt3b_bassel_seek_help_relig_leaders	0	131	79.4	185	99.5	316	90.0
	1	34	20.6	1	0.5	35	10.0
	all	165	100.0	186	100.0	351	100.0
HelpAtt3b_NA_none_of_above	0	163	98.8	182	97.8	345	98.3
	1	2	1.2	4	2.1	6	1.7
	all	165	100.0	186	100.0	351	100.0

Table 16: Descriptive statistics for help-seeking attitudes, all subjects

```
phase3 %<>% rename(WASS1 = Q88, WASS2 = Q89, WASS3 = Q90, WASS4 = Q91, WASS5 = Q92, WASS6 = Q93)
phase3 %<>% mutate_at(vars(starts_with("WASS")), funs(replace(., equals(., 7), NA)))
phase3$WASS_scale <- phase3 %>% select(starts_with("WASS")) %>% select(-WASS6) %>% rowMeans
phase3$WASS6 <- factor(phase3$WASS6)

WASS_scale <- lm(WASS_scale ~ usable, data = phase3)
WASS6 <- clm(WASS6 ~ usable, data = phase3)
# WASS_scale_m <- lm(WASS_scale ~ usable, subset = ID_gender == "Men", data = phase3)
# WASS_scale_f <- lm(WASS_scale ~ usable, subset = ID_gender == "Women", data = phase3)
# WASS6_m <- clm(WASS6 ~ usable, subset = ID_gender == "Men", data = phase3)
# WASS6_f <- clm(WASS6 ~ usable, subset = ID_gender == "Women", data = phase3)


WASS_scale_table <- t(coef(summary(WASS_scale))[nrow(coef(summary(WASS_scale))),])
WASS_scale_table <- data.frame(WASS_scale_table, row.names = 'WASS 1-5 scale')
colnames(WASS_scale_table) <- c('Coef', 'SE', 't', 'p')
# WASS_scale_table_m <- coef(summary(WASS_scale_m))[nrow(coef(summary(WASS_scale_m))),]
# WASS_scale_table_f <- coef(summary(WASS_scale_f))[nrow(coef(summary(WASS_scale_f))),]
# WASS_scale_table <- data.frame(t(c(WASS_scale_table_m, WASS_scale_table_f)), row.names = 'WASS 1-5 scale')
# colnames(WASS_scale_table) <- c('m.Coef', 'm.SE', 'm.t', 'm.p','f.Coef', 'f.SE', 'f.t', 'f.p')

WASS6_table <- t(coef(summary(WASS6))[nrow(coef(summary(WASS6))),])
WASS6_table <- data.frame(WASS6_table, row.names = 'WASS6 item')
colnames(WASS6_table) <- c('Coef', 'SE', 't', 'p')

# WASS6_table_m <- coef(summary(WASS6_m))[nrow(coef(summary(WASS6_m))),]
# WASS6_table_f <- coef(summary(WASS6_f))[nrow(coef(summary(WASS6_f))),]
# WASS6_table <- data.frame(t(c(WASS6_table_m, WASS6_table_f)), row.names = 'WASS6 item')
# colnames(WASS6_table) <- c('m.Coef', 'm.SE', 'm.Z', 'm.p','f.Coef', 'f.SE', 'f.Z', 'f.p')
```

```
print(xtable(WASS_scale_table, "WASS 1-5 - scale", auto = TRUE, digits = c(2,2,2,2,4)), type = "latex")
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:26 2018

```
print(xtable(WASS6_table, "WASS6 - single item 6", auto = TRUE, digits = c(2,2,2,2,4)), type = "latex")
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:26 2018

```
phase3 %<>% rename(IPACTS1 = Q95, IPACTS2 = Q96, IPACTS3 = Q99, IPACTS4 = Q100, IPACTS5 = Q101, IPACTS6 = Q102
IPACTS_names <- phase3 %>% select(starts_with("IPACTS")) %>% names
phase3 %<>% mutate_at(IPACTS_names, funs(replace(., equals(., 9), NA)))
```

	Coef	SE	t	p
WASS 1-5 scale	-0.17	0.23	-0.74	0.4576

Table 17: WASS 1-5 - scale

	Coef	SE	t	p
WASS6 item	-0.18	0.33	-0.56	0.5780

Table 18: WASS6 - single item 6

```
IPACTS_items <- phase3 %>% select(IPACTS_names) %>% mutate_all(funs(if_else(. < 7, 1, 0)))

phase3$IPACTS_scale <- IPACTS_items %>% rowSums
phase3$IPACTS_scale_size <- 6
IPACTS_items$usable <- phase3$usable

IPACTS_items_models <- lapply(IPACTS_names, function(x) glm(as.formula(paste0(x, ' ~ usable')), family = binom

IPACTS_scale <- glm(cbind(IPACTS_scale, IPACTS_scale_size-IPACTS_scale) ~ usable, family = binomial(link = "lo
# IPACTS_scale_m <- glm(cbind(IPACTS_scale, IPACTS_scale_size-IPACTS_scale) ~ usable, family = binomial(link =
# IPACTS_scale_f <- glm(cbind(IPACTS_scale, IPACTS_scale_size-IPACTS_scale) ~ usable, family = binomial(link =

IPACTS_table <- t(coef(summary(IPACTS_scale))[nrow(coef(summary(IPACTS_scale))),])
IPACTS_table <- rbind(IPACTS_table, t(sapply(IPACTS_items_models, function(x) coef(summary(x))[nrow(coef(summa
IPACTS_table <- data.frame(IPACTS_table, row.names = c('IPA CTS2-S',IPACTS_names))
colnames(IPACTS_table) <- c('Coef', 'SE', 'Z', 'p')
# IPACTS_table_m <- coef(summary(IPACTS_scale_m))[nrow(coef(summary(IPACTS_scale_m))),]
# IPACTS_table_f <- coef(summary(IPACTS_scale_f))[nrow(coef(summary(IPACTS_scale_f))),]
# IPACTS_table <- data.frame(t(c(IPACTS_table_m, IPACTS_table_f)), row.names = 'IPA CTS2-S')
# colnames(IPACTS_table) <- c('m.Coef', 'm.SE', 'm.Z', 'm.p','f.Coef', 'f.SE', 'f.Z', 'f.p')
```

```
print(xtable((IPACTS_table), "IPA exposure CTS2-S scale, then items, 1 if exposure in past year.", auto = TRUE
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:26 2018

	Coef	SE	Z	p
IPA CTS2-S	0.35	0.18	1.87	0.0608
IPACTS1	0.40	0.38	1.04	0.2987
IPACTS2	0.67	0.39	1.71	0.0866
IPACTS3	0.20	0.58	0.35	0.7235
IPACTS4	0.72	0.51	1.41	0.1599
IPACTS5	-0.36	0.70	-0.51	0.6074
IPACTS6	-0.11	0.54	-0.19	0.8455

Table 19: IPA exposure CTS2-S scale, then items, 1 if exposure in past year.

```
tableNominal(vars = as.data.frame(IPACTS_items %>% select(-usable)), group = ID_gender[,1], cumsum = FALSE, lo
```

% latex table generated in R 3.4.4 by xtable 1.8-2 package % Fri Jul 27 03:32:26 2018

Variable	**Levels**	$\mathbf{n}_{\text{Men}}$	$\%_{\text{Men}}$	$\mathbf{n}_{\text{Women}}$	$\%_{\text{Women}}$	$\mathbf{n}_{\text{all}}$	$\%_{\text{all}}$
IPACTS1	0	95	62.9	90	52.3	185	57.3
	1	56	37.1	82	47.7	138	42.7
	all	151	100.0	172	100.0	323	100.0
IPACTS2	0	131	87.3	66	38.4	197	61.2
	1	19	12.7	106	61.6	125	38.8
	all	150	100.0	172	100.0	322	100.0
IPACTS3	0	122	81.3	145	84.3	267	82.9
	1	28	18.7	27	15.7	55	17.1
	all	150	100.0	172	100.0	322	100.0
IPACTS4	0	134	88.7	121	70.3	255	79.0
	1	17	11.3	51	29.6	68	21.1
	all	151	100.0	172	100.0	323	100.0

IPACTS5	0	140	89.7	155	90.1	295	89.9
	1	16	10.3	17	9.9	33	10.1
	all	156	100.0	172	100.0	328	100.0
IPACTS6	0	140	92.1	133	77.8	273	84.5
	1	12	7.9	38	22.2	50	15.5
	all	152	100.0	171	100.0	323	100.0

Table 20: Descriptive statistics for IPA exposure CTS2-S items, exposure in past year collapsed.