

Clinical data hydra results (primarily using Hydra_k2)

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R Markdown

This script goes through demographics, cnb scores, health, and psych summaries, adds clustering information, runs statistics and makes graphs from results.

Part 1 : Read in csv.s -This script reads in demographics, clinical scores, health and psych summaries, merges them, removes NAs, codes and separates by depression.

Part 2 : merge with hydra -It then merges these documents with hydra output (made in cbica), adding Hydra_k1 through Hydra_k10 columns (which represent the number of clusters) -The script reads in 3 different types of groups (matched, unmatched, and residualized unmatched groups), and also does all gender together as well as separating them by gender.

Part 3 : LM -The script then runs LM on each clinical score (clinical_measure ~ hydra_group).
-There is a test option that does this for all clinical measures and all hydra groups, but for the remainder of the analysis, Hydra_k2 was the only classification more deeply explored.

Part 4 : Anova -Anovas were also run on the results of the LM of each clinical value by cluster.

Part 5 : Graphing - Graphs were then made.

For continuous variables(age, medu1), the graphs represent means, with SEM as error bars For categorical variables (race, sex) the graphs are percentages (caucasian, male) per group, with chisq used to calculate significance

Part 6 : FDR Correction -FDR correction was calculated for each clinical measure ANOVA output -A table of the results was extracted

Part 7 : Demographics tables - Demographics tables for each group (matched, unmatched, resid) were produced

```
#####  
##### READ IN, MERGE AND SUBSET DATA#####  
#####  
  
#read in csvs  
#####  
##### READ IN, MERGE AND SUBSET DATA#####  
#####  
  
#read in csvs  
demographics <- read.csv("/Users/eballer/BBL/from_thead/ballerDepHeterogen/data/n9498_demographics_go1_1  
clinical_scores <- read.csv("/Users/eballer/BBL/from_thead/ballerDepHeterogen/data/n9498_goassess_itemw  
health <- read.csv("/Users/eballer/BBL/from_thead/ballerDepHeterogen/data/n9498_health_20170405.csv", h  
psych_summary <- read.csv("/Users/eballer/BBL/from_thead/ballerDepHeterogen/data/n9498_goassess_psych-s  
  
#read in Hydra cluster data -> AG (all_gender), M(males), F(females)  
hydra_AG_matched_clusters <- read.csv("/Users/eballer/BBL/from_thead/ballerDepHeterogen/hydra_output_fr  
hydra_AG_unmatched_clusters <- read.csv("/Users/eballer/BBL/from_thead/ballerDepHeterogen/hydra_output_  
hydra_AG_residuals_clusters <- read.csv("/Users/eballer/BBL/from_thead/ballerDepHeterogen/hydra_output_  
  
hydra_F_matched_clusters <- read.csv("/Users/eballer/BBL/from_thead/ballerDepHeterogen/hydra_output_from
```

```

hydra_F_unmatched_clusters <- read.csv("/Users/eballer/BBL/from_thead/ballerDepHeterogen/hydra_output_f
hydra_F_residuals_clusters <- read.csv("/Users/eballer/BBL/from_thead/ballerDepHeterogen/hydra_output_f

hydra_M_matched_clusters <- read.csv("/Users/eballer/BBL/from_thead/ballerDepHeterogen/hydra_output_from
hydra_M_unmatched_clusters <- read.csv("/Users/eballer/BBL/from_thead/ballerDepHeterogen/hydra_output_f
hydra_M_residuals_clusters <- read.csv("/Users/eballer/BBL/from_thead/ballerDepHeterogen/hydra_output_f

#Coerce hydra values into factor format
hydra_names <- names(hydra_AG_matched_clusters[2:11])
hydra_AG_matched_clusters[hydra_names] <- lapply(hydra_AG_matched_clusters[hydra_names], factor)
hydra_AG_unmatched_clusters[hydra_names] <- lapply(hydra_AG_unmatched_clusters[hydra_names], factor)
hydra_AG_residuals_clusters[hydra_names] <- lapply(hydra_AG_residuals_clusters[hydra_names], factor)

hydra_F_matched_clusters[hydra_names] <- lapply(hydra_F_matched_clusters[hydra_names], factor)
hydra_F_unmatched_clusters[hydra_names] <- lapply(hydra_F_unmatched_clusters[hydra_names], factor)
hydra_F_residuals_clusters[hydra_names] <- lapply(hydra_F_residuals_clusters[hydra_names], factor)

hydra_M_matched_clusters[hydra_names] <- lapply(hydra_M_matched_clusters[hydra_names], factor)
hydra_M_unmatched_clusters[hydra_names] <- lapply(hydra_M_unmatched_clusters[hydra_names], factor)
hydra_M_residuals_clusters[hydra_names] <- lapply(hydra_M_residuals_clusters[hydra_names], factor)

#####
#prepping and merging big clinical and demographics stuff
#####

#remove people with NA for race, age, or sex. START WITH N = 9498
demographics_noNA_race <- demographics[!is.na(demographics$race),] #everyone has a race, N = 9498
demographics_noNA_race_age <- demographics_noNA_race[!is.na(demographics_noNA_race$ageAtClinicalAssess1
demographics_noNA_race_age_sex <- demographics_noNA_race_age[!is.na(demographics_noNA_race_age$sex),] #

#remove people with NA for depression or total psych score, START WITH N = 9498
psych_summary_no_NA_dep <- psych_summary[!is.na(psych_summary$smry_dep),] #take out those with NA for d
psych_summary_no_NA_dep_and_smry_psych_overall <- psych_summary_no_NA_dep[!is.na(psych_summary_no_NA_dep

#merge demographics and clinical #this is if we want to include people without full demographic data
dem_clinical <- merge(demographics_noNA_race_age_sex, clinical_scores, by = "bblid") #merge demographic
psych_health <- merge(psych_summary_no_NA_dep_and_smry_psych_overall, health, by = "bblid") #merge psych
dem_clinical_psych_health_merged <- merge (dem_clinical, psych_health, by = "bblid") #merge all 3 csvs

#make subsets
subset_just_dep_and_no_medicalratingExclude <- subset.data.frame(dem_clinical_psych_health_merged, (med
subset_no_psych_no_medicalratingExclude <- subset.data.frame(dem_clinical_psych_health_merged, (medical
subset_dep_or_no_psych_and_no_medicalratingExclude <- subset.data.frame(dem_clinical_psych_health_merged

#would binarize depression smry score to -1 (less than 4, not depressed) and 1 (score 4 , depressed)
dep_binarized <- ifelse(subset_dep_or_no_psych_and_no_medicalratingExclude$smry_dep == 4, 1, -1)
subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED <- cbind(subset_dep_or_no_psych_and_no_r

#make depression and gender into factor scores
subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED$dep_binarized <- as.factor(subset_dep_or
subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED$sex <- as.factor(subset_dep_or_no_psych

```

```

#divide ageAtclinical by 12 for age
subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED$age_in_years <- subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED$ageAtclinical/12

#race binarized for plotting purposes, caucasian 1, non-caucasian 0
subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED$race_binarized <- ifelse(as.factor(subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED$race) == "caucasian", 1, 0)

#remove people with NA in their cognitive measures
subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED <- subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED[!is.na(subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED$age_in_years) && !is.na(subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED$race_binarized), ]

#####
### Merge clustering data with subsetting data ###
#####

#AG (all gender), M (males), F (females)
#AG Matched - n 1423
#AG Unmatched n = 3014
#AG Resid n = 3014
subset_with_clusters_AG_matched <- merge(subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED, subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED_Matched, by = "id")
subset_with_clusters_AG_unmatched <- merge(subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED, subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED_Unmatched, by = "id")
subset_with_clusters_AG_resid <- merge(subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED, subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED_Resid, by = "id")

#F Matched - n 952
#F Unmatched n = 1584
#F Resid n = 1585
subset_with_clusters_F_matched <- merge(subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED, subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED_FMatched, by = "id")
subset_with_clusters_F_unmatched <- merge(subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED, subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED_FUnmatched, by = "id")
subset_with_clusters_F_resid <- merge(subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED, subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED_FResid, by = "id")

#M Matched - n 470
#M Unmatched n = 1430
#M Resid n = 1430
subset_with_clusters_M_matched <- merge(subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED, subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED_Matched, by = "id")
subset_with_clusters_M_unmatched <- merge(subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED, subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED_MUnmatched, by = "id")
subset_with_clusters_M_resid <- merge(subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED, subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED_MResid, by = "id")

#save objects
saveRDS(object = subset_with_clusters_AG_matched, file = "/Users/eballer/BBL/from_thead/ballerDepHeterogeneity/AG_matched.rds")
saveRDS(object = subset_with_clusters_AG_unmatched, file = "/Users/eballer/BBL/from_thead/ballerDepHeterogeneity/AG_unmatched.rds")
saveRDS(object = subset_with_clusters_AG_resid, file = "/Users/eballer/BBL/from_thead/ballerDepHeterogeneity/AG_resid.rds")

saveRDS(object = subset_with_clusters_F_matched, file = "/Users/eballer/BBL/from_thead/ballerDepHeterogeneity/F_matched.rds")
saveRDS(object = subset_with_clusters_F_unmatched, file = "/Users/eballer/BBL/from_thead/ballerDepHeterogeneity/F_unmatched.rds")
saveRDS(object = subset_with_clusters_F_resid, file = "/Users/eballer/BBL/from_thead/ballerDepHeterogeneity/F_resid.rds")

saveRDS(object = subset_with_clusters_M_matched, file = "/Users/eballer/BBL/from_thead/ballerDepHeterogeneity/M_matched.rds")
saveRDS(object = subset_with_clusters_M_unmatched, file = "/Users/eballer/BBL/from_thead/ballerDepHeterogeneity/M_unmatched.rds")
saveRDS(object = subset_with_clusters_M_resid, file = "/Users/eballer/BBL/from_thead/ballerDepHeterogeneity/M_resid.rds")

```

Including Graphs

```

#####
# Linear Model for each measure #

```

```

##### Results stored in list #####
#####
#get clinical measure names (grep factor)
clinical_measure_names <- names(subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED)[grep("
cluster_names <- colnames(hydra_AG_matched_clusters[,2:11])

clinical_measure_names_list <- names(subset_dep_or_no_psych_and_no_medicalratingExclude_DEPBINARIZED)[g
cluster_names_list <- colnames(hydra_AG_matched_clusters[,2:11])

#### All Hydra clusters in embedded list#####
clinical_cog_score_cluster_stats_lm_AG_matched_by_cluster_1through10 <- lapply(cluster_names_list, func
{
  clinical_cog_score_cluster_stats_lm_AG_matched_withincluster<- lapply(clinical_measure_names_list, cl
  {
    clinical_measure <- as.name(clinical_measure_name)
    lm(substitute(clinical_measure ~ cluster, list(clinical_measure = clinical_measure, cluster = clust
  })
  setNames(clinical_cog_score_cluster_stats_lm_AG_matched_withincluster, clinical_measure_names_list)
})
names(clinical_cog_score_cluster_stats_lm_AG_matched_by_cluster_1through10) <- cluster_names_list

##### Just Hydra_3 clusters #####
clinical_cog_score_cluster_stats_lm_AG_matched <- lapply(clinical_measure_names, function(x)
{
  lm(substitute(i ~ Hydra_k2, list(i = as.name(x))), data = subset_with_clusters_AG_matched)
})

clinical_cog_score_cluster_stats_lm_AG_unmatched <- lapply(clinical_measure_names, function(x)
{
  lm(substitute(i ~ Hydra_k2, list(i = as.name(x))), data = subset_with_clusters_AG_unmatched)
})

clinical_cog_score_cluster_stats_lm_AG_resid <- lapply(clinical_measure_names, function(x)
{
  lm(substitute(i ~ Hydra_k2, list(i = as.name(x))), data = subset_with_clusters_AG_resid)
})

#####
##### Statistics #####
#####

##### All hydra clusters, Anova results #####
clinical_cog_score_cluster_stats_anova_AG_matched_by_cluster_1through10 <- lapply(cluster_names_list, f
{
  clinical_cog_score_cluster_stats_anova_AG_withincluster <- lapply(clinical_measure_names_list, cluste
  {
    clinical_measure <- as.name(clinical_measure_name)
    anova(lm(substitute(clinical_measure ~ cluster, list(clinical_measure = clinical_measure, cluster =
  })
  setNames(clinical_cog_score_cluster_stats_anova_AG_withincluster, clinical_measure_names_list)
})

```

```

names(clinical_cog_score_cluster_stats_anova_AG_matched_by_cluster_1through10) <- cluster_names_list

#####Just Hydra 3 clusters ANOVA #####
clinical_cog_score_cluster_stats_anova_AG_matched <- lapply(clinical_measure_names, function(x)
{
  anova(lm(substitute(i ~ Hydra_k2, list(i = as.name(x))), data = subset_with_clusters_AG_matched))
})

clinical_cog_score_cluster_stats_anova_AG_unmatched <- lapply(clinical_measure_names, function(x)
{
  anova(lm(substitute(i ~ Hydra_k2, list(i = as.name(x))), data = subset_with_clusters_AG_unmatched))
})

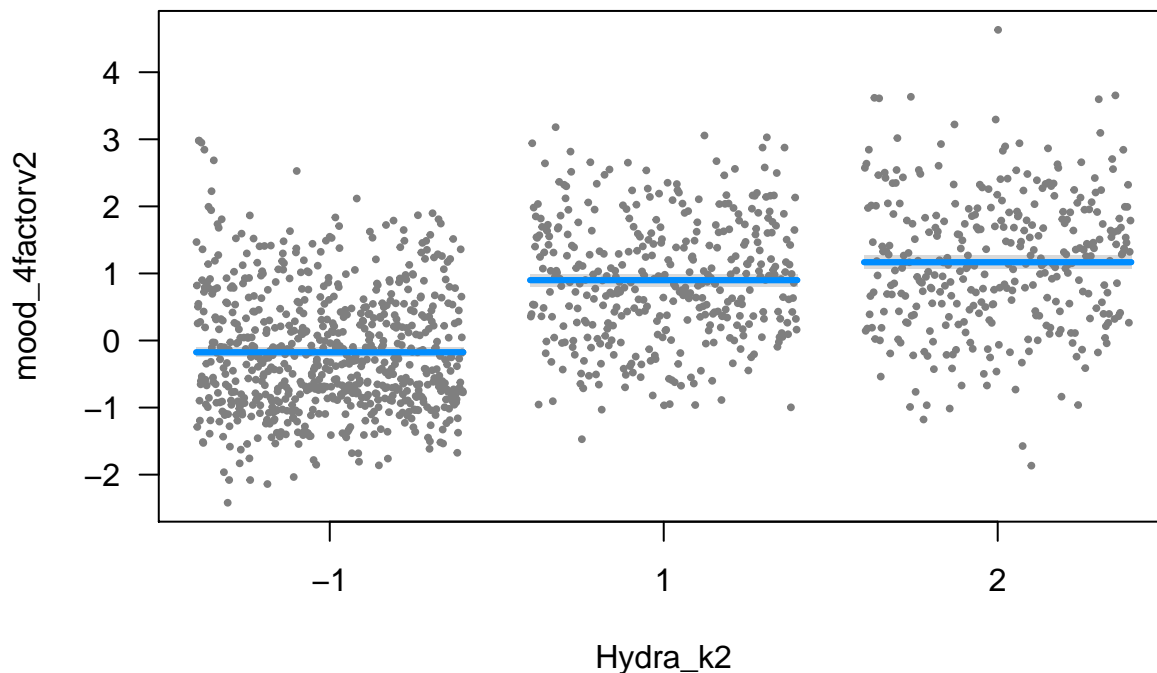
clinical_cog_score_cluster_stats_anova_AG_resid <- lapply(clinical_measure_names, function(x)
{
  anova(lm(substitute(i ~ Hydra_k2, list(i = as.name(x))), data = subset_with_clusters_AG_resid))
})

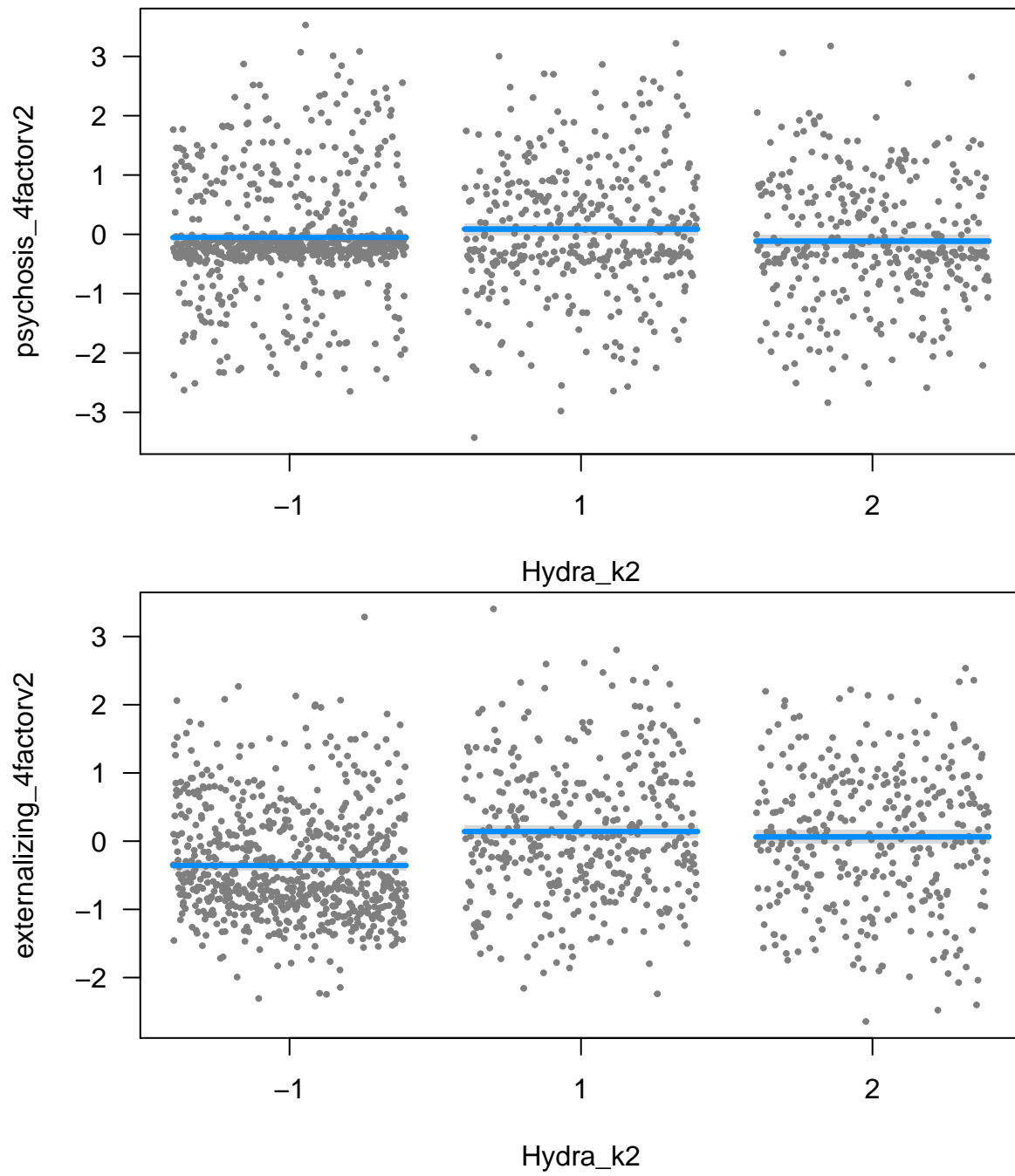
names(clinical_cog_score_cluster_stats_lm_AG_matched) <- clinical_measure_names
names(clinical_cog_score_cluster_stats_lm_AG_unmatched) <- clinical_measure_names
names(clinical_cog_score_cluster_stats_lm_AG_resid) <- clinical_measure_names

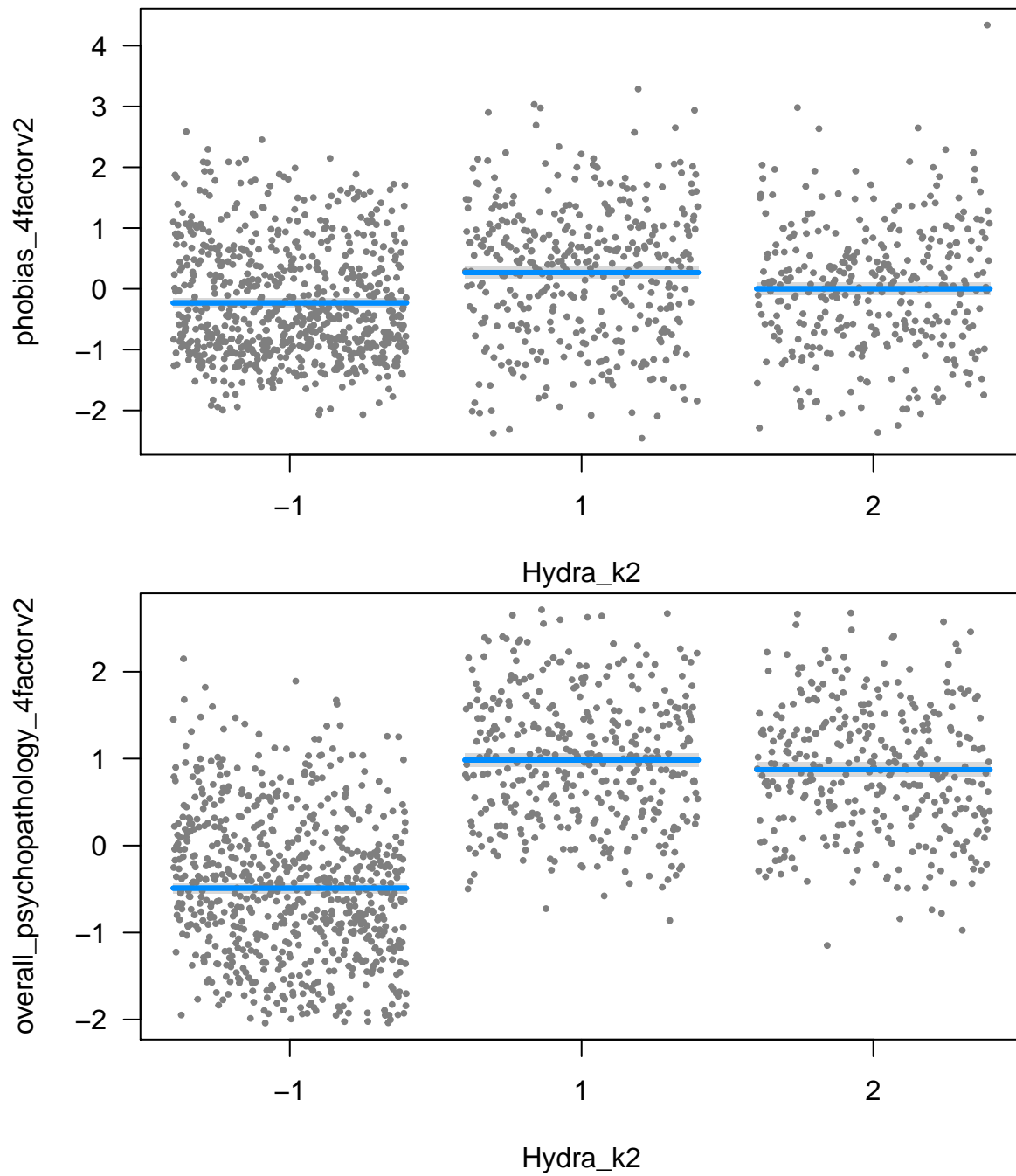
names(clinical_cog_score_cluster_stats_anova_AG_matched) <- clinical_measure_names
names(clinical_cog_score_cluster_stats_anova_AG_unmatched) <- clinical_measure_names
names(clinical_cog_score_cluster_stats_anova_AG_resid) <- clinical_measure_names

#checkmodel with visreg, uncomment when want to check
lapply(clinical_cog_score_cluster_stats_lm_AG_matched, function(x) {visreg(x)})

```







```
## $mood_4factorv2
## $fit
##   Hydra_k2 mood_4factorv2 visregFit visregLwr visregUpr
## 1      -1      0.369047 -0.1752193 -0.2437276 -0.1067111
## 2       1      0.369047  0.8996300  0.8054229  0.9938371
## 3       2      0.369047  1.1671028  1.0674458  1.2667599
##
## $res
##   Hydra_k2 mood_4factorv2 visregRes visregPos
## 1      -1      0.369047  1.467683543    TRUE
## 2       1      0.369047  0.357056433    FALSE
```

## 3	2	0.369047	2.573814188	TRUE
## 4	-1	0.369047	0.820192434	TRUE
## 5	1	0.369047	0.394526983	FALSE
## 6	-1	0.369047	-1.288650136	FALSE
## 7	-1	0.369047	0.255136536	TRUE
## 8	-1	0.369047	0.503940990	TRUE
## 9	-1	0.369047	0.547406828	TRUE
## 10	2	0.369047	0.144223707	FALSE
## 11	-1	0.369047	2.979994953	TRUE
## 12	-1	0.369047	2.979994953	TRUE
## 13	-1	0.369047	-0.897457591	FALSE
## 14	-1	0.369047	-1.194224349	FALSE
## 15	-1	0.369047	0.277618866	TRUE
## 16	2	0.369047	2.636764712	TRUE
## 17	-1	0.369047	-0.653149603	FALSE
## 18	1	0.369047	2.941025580	TRUE
## 19	-1	0.369047	-0.599192010	FALSE
## 20	1	0.369047	0.536915074	FALSE
## 21	-1	0.369047	2.950018512	TRUE
## 22	2	0.369047	0.178696613	FALSE
## 23	-1	0.369047	-0.534742664	FALSE
## 24	-1	0.369047	0.899630001	TRUE
## 25	-1	0.369047	1.359768358	TRUE
## 26	-1	0.369047	-1.513473437	FALSE
## 27	-1	0.369047	-1.526962835	FALSE
## 28	-1	0.369047	0.431997533	TRUE
## 29	-1	0.369047	0.724267826	TRUE
## 30	-1	0.369047	2.845100972	TRUE
## 31	-1	0.369047	0.791714816	TRUE
## 32	-1	0.369047	0.195183656	TRUE
## 33	-1	0.369047	-0.585702612	FALSE
## 34	-1	0.369047	-0.952914005	FALSE
## 35	-1	0.369047	-0.345891090	FALSE
## 36	-1	0.369047	-0.669636645	FALSE
## 37	-1	0.369047	0.854665341	TRUE
## 38	-1	0.369047	0.794712460	TRUE
## 39	-1	0.369047	-0.993382199	FALSE
## 40	1	0.369047	1.981779493	TRUE
## 41	-1	0.369047	1.139441523	TRUE
## 42	-1	0.369047	1.993770069	TRUE
## 43	-1	0.369047	-0.855490574	FALSE
## 44	-1	0.369047	0.773728952	TRUE
## 45	-1	0.369047	-1.389071210	FALSE
## 46	-1	0.369047	0.917615865	TRUE
## 47	1	0.369047	0.530919786	FALSE
## 48	1	0.369047	1.400236553	TRUE
## 49	-1	0.369047	-1.191226705	FALSE
## 50	-1	0.369047	-0.317413472	FALSE
## 51	-1	0.369047	1.942810121	TRUE
## 52	1	0.369047	1.849883156	TRUE
## 53	-1	0.369047	2.226087481	TRUE
## 54	2	0.369047	1.975784205	TRUE
## 55	-1	0.369047	-0.104580747	TRUE
## 56	-1	0.369047	0.695790207	TRUE

## 57	1	0.369047	1.541125822	TRUE
## 58	1	0.369047	1.530634068	TRUE
## 59	-1	0.369047	-0.028140824	TRUE
## 60	-1	0.369047	-0.552728528	FALSE
## 61	-1	0.369047	-0.620175519	FALSE
## 62	-1	0.369047	2.686225838	TRUE
## 63	2	0.369047	2.845100972	TRUE
## 64	2	0.369047	0.390030517	FALSE
## 65	-1	0.369047	0.760239554	TRUE
## 66	-1	0.369047	-0.031138468	TRUE
## 67	-1	0.369047	1.188902649	TRUE
## 68	-1	0.369047	0.348063501	TRUE
## 69	-1	0.369047	-0.651650781	FALSE
## 70	-1	0.369047	0.313590594	TRUE
## 71	2	0.369047	0.662816123	FALSE
## 72	-1	0.369047	-0.927434031	FALSE
## 73	-1	0.369047	-0.182519491	FALSE
## 74	-1	0.369047	0.782721884	TRUE
## 75	2	0.369047	2.013254755	TRUE
## 76	2	0.369047	0.190687190	FALSE
## 77	-1	0.369047	1.735972683	TRUE
## 78	2	0.369047	1.466184721	TRUE
## 79	1	0.369047	2.035737085	TRUE
## 80	1	0.369047	-0.954412827	FALSE
## 81	-1	0.369047	-0.780549474	FALSE
## 82	-1	0.369047	1.274335504	TRUE
## 83	-1	0.369047	1.680516269	TRUE
## 84	-1	0.369047	0.166706037	TRUE
## 85	1	0.369047	1.569603440	TRUE
## 86	-1	0.369047	-1.209212569	FALSE
## 87	-1	0.369047	-0.922937565	FALSE
## 88	-1	0.369047	-0.279942922	FALSE
## 89	1	0.369047	1.245857886	TRUE
## 90	-1	0.369047	-0.094088993	TRUE
## 91	-1	0.369047	0.319585883	TRUE
## 92	1	0.369047	1.818407894	TRUE
## 93	-1	0.369047	-0.097086637	TRUE
## 94	-1	0.369047	1.807916140	TRUE
## 95	-1	0.369047	-0.909448167	FALSE
## 96	2	0.369047	0.719771360	FALSE
## 97	-1	0.369047	-1.057831546	FALSE
## 98	-1	0.369047	0.297103552	TRUE
## 99	2	0.369047	3.618493129	TRUE
## 100	-1	0.369047	-1.434035871	FALSE
## 101	-1	0.369047	-0.410340437	FALSE
## 102	-1	0.369047	-1.963120041	FALSE
## 103	2	0.369047	0.022819124	FALSE
## 104	2	0.369047	2.008758289	TRUE
## 105	-1	0.369047	-0.100084281	TRUE
## 106	2	0.369047	1.184406183	TRUE
## 107	-1	0.369047	-1.111789138	FALSE
## 108	-1	0.369047	-1.086309164	FALSE
## 109	-1	0.369047	-0.500269758	FALSE
## 110	-1	0.369047	-0.656147247	FALSE

## 111	1	0.369047	0.360054077	FALSE
## 112	1	0.369047	1.694005667	TRUE
## 113	-1	0.369047	0.569889158	TRUE
## 114	-1	0.369047	0.929606441	TRUE
## 115	1	0.369047	1.071994532	TRUE
## 116	-1	0.369047	-0.335399336	FALSE
## 117	2	0.369047	0.970074635	FALSE
## 118	-1	0.369047	0.554900938	TRUE
## 119	-1	0.369047	-2.418761932	FALSE
## 120	2	0.369047	2.465899003	TRUE
## 121	1	0.369047	0.485955126	FALSE
## 122	-1	0.369047	-1.098299740	FALSE
## 123	1	0.369047	1.314803698	TRUE
## 124	1	0.369047	2.641261178	TRUE
## 125	-1	0.369047	-0.689121331	FALSE
## 126	-1	0.369047	-0.134557187	TRUE
## 127	-1	0.369047	-2.080028158	FALSE
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## 1274	1	0.369047	0.902627645	TRUE
## 1275	1	0.369047	2.140654626	TRUE
## 1276	1	0.369047	3.029456079	TRUE
## 1277	-1	0.369047	0.673307877	TRUE
## 1278	-1	0.369047	-0.112074857	TRUE
## 1279	1	0.369047	1.602577524	TRUE
## 1280	-1	0.369047	-1.111789138	FALSE
## 1281	2	0.369047	0.264129468	FALSE
## 1282	-1	0.369047	-0.107578391	TRUE
## 1283	2	0.369047	0.396025805	FALSE
## 1284	-1	0.369047	-1.023358640	FALSE
## 1285	2	0.369047	1.188902649	TRUE
## 1286	1	0.369047	1.825902004	TRUE
## 1287	-1	0.369047	-0.426827479	FALSE
## 1288	-1	0.369047	-0.016150248	TRUE
## 1289	-1	0.369047	-0.566217926	FALSE
## 1290	-1	0.369047	1.286326080	TRUE
## 1291	-1	0.369047	-0.627669629	FALSE
## 1292	-1	0.369047	1.807916140	TRUE
## 1293	-1	0.369047	-0.687622509	FALSE
## 1294	1	0.369047	0.967076991	TRUE
## 1295	-1	0.369047	-0.524250910	FALSE
## 1296	-1	0.369047	-0.654648425	FALSE
## 1297	-1	0.369047	-0.230481796	FALSE
## 1298	-1	0.369047	-1.517969903	FALSE

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## 1308	-1	0.369047	-0.605187298	FALSE
## 1309	2	0.369047	2.555828323	TRUE
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## 1319	2	0.369047	0.321084705	FALSE
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## 1322	-1	0.369047	0.219164808	TRUE
## 1323	-1	0.369047	-0.994881021	FALSE
## 1324	1	0.369047	1.101970972	TRUE
## 1325	1	0.369047	1.711991531	TRUE
## 1326	-1	0.369047	-0.636662561	FALSE
## 1327	2	0.369047	3.654464858	TRUE
## 1328	2	0.369047	1.433210637	TRUE
## 1329	-1	0.369047	-0.288935854	FALSE
## 1330	-1	0.369047	0.910121755	TRUE
## 1331	-1	0.369047	-0.879471727	FALSE
## 1332	-1	0.369047	-1.233193721	FALSE
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## 1334	-1	0.369047	-0.728090703	FALSE
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## 1367	-1	0.369047	-0.728090703	FALSE
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## 1376	-1	0.369047	-0.794038872	FALSE
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## 1378	-1	0.369047	-0.921438743	FALSE
## 1379	1	0.369047	1.021034584	TRUE
## 1380	1	0.369047	1.169417963	TRUE
## 1381	-1	0.369047	-0.876474082	FALSE
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## 1383	2	0.369047	2.843602150	TRUE
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## 1386	2	0.369047	1.993770069	TRUE
## 1387	-1	0.369047	-1.159751443	FALSE
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## 1390	-1	0.369047	-1.374082990	FALSE
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## 1393	-1	0.369047	-0.270949990	FALSE
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## 1399	1	0.369047	1.131947413	TRUE
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## 1402	-1	0.369047	1.359768358	TRUE
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## 1407      2      0.369047  2.322012090      TRUE
## 1408      2      0.369047  0.265628290     FALSE
## 1409      1      0.369047  0.992556966      TRUE
## 1410      1      0.369047  0.426002245     FALSE
## 1411      2      0.369047  1.322297808      TRUE
## 1412      1      0.369047  0.632839683     FALSE
## 1413     -1      0.369047  0.653823191      TRUE
## 1414      2      0.369047  1.788431454      TRUE
## 1415      1      0.369047  0.859161807     FALSE
## 1416      1      0.369047  1.647542185      TRUE
## 1417     -1      0.369047  0.046800276      TRUE
## 1418      1      0.369047  2.131661694      TRUE
## 1419     -1      0.369047 -0.178023025     FALSE
## 1420     -1      0.369047 -0.753570678     FALSE
## 1421      1      0.369047  0.322583527     FALSE
## 1422     -1      0.369047 -0.773055364     FALSE
## 1423      1      0.369047  0.162209571     FALSE
##
## $meta
## $meta$x
## [1] "Hydra_k2"
##
## $meta$y
## [1] "mood_4factorv2"
##
## $meta$hasInteraction
## [1] FALSE
##
## $meta$yName
## [1] "mood_4factorv2"
##
## $meta$trans
## function (x)
## {
##     structure(x, class = unique(c("AsIs", oldClass(x))))
## }
## <bytecode: 0x7f9cbf81bbb8>
## <environment: namespace:base>
##
## $meta$class
## [1] "lm"
##
##
## attr("class")
## [1] "visreg"
##
## $psychosis_4factorv2
## $fit
##   Hydra_k2 psychosis_4factorv2 visregFit visregLwr visregUpr
## 1      -1      -0.1889013 -0.05238930 -0.12701487  0.022236276
## 2       1      -0.1889013  0.08855267 -0.01406652  0.191171850
## 3       2      -0.1889013 -0.11468769 -0.22324344 -0.006131936
##
## $res

```

##	Hydra_k2	psychosis_4factorv2	visregRes	visregPos
## 1	-1	-0.1889013	1.765287093	TRUE
## 2	1	-0.1889013	0.784220987	TRUE
## 3	2	-0.1889013	-0.002220669	TRUE
## 4	-1	-0.1889013	-0.234578430	FALSE
## 5	1	-0.1889013	-0.953497318	FALSE
## 6	-1	-0.1889013	-2.375447382	FALSE
## 7	-1	-0.1889013	1.034452423	TRUE
## 8	-1	-0.1889013	-0.304087163	FALSE
## 9	-1	-0.1889013	-0.304087163	FALSE
## 10	2	-0.1889013	2.053251841	TRUE
## 11	-1	-0.1889013	0.371140521	TRUE
## 12	-1	-0.1889013	1.153610250	TRUE
## 13	-1	-0.1889013	-0.037968017	TRUE
## 14	-1	-0.1889013	-0.379553786	FALSE
## 15	-1	-0.1889013	1.457462708	TRUE
## 16	2	-0.1889013	-0.270325778	FALSE
## 17	-1	-0.1889013	0.919266524	TRUE
## 18	1	-0.1889013	1.743441491	TRUE
## 19	-1	-0.1889013	-0.157125843	FALSE
## 20	1	-0.1889013	-0.081659220	FALSE
## 21	-1	-0.1889013	-0.302101199	FALSE
## 22	2	-0.1889013	0.827912190	TRUE
## 23	-1	-0.1889013	-0.393455533	FALSE
## 24	-1	-0.1889013	-0.387497641	FALSE
## 25	-1	-0.1889013	-0.331890656	FALSE
## 26	-1	-0.1889013	0.728614001	TRUE
## 27	-1	-0.1889013	-0.983286774	FALSE
## 28	-1	-0.1889013	-0.192873191	FALSE
## 29	-1	-0.1889013	1.455476744	TRUE
## 30	-1	-0.1889013	-0.363666076	FALSE
## 31	-1	-0.1889013	-0.391469569	FALSE
## 32	-1	-0.1889013	-0.226634575	FALSE
## 33	-1	-0.1889013	-0.024066270	TRUE
## 34	-1	-0.1889013	1.225104946	TRUE
## 35	-1	-0.1889013	-0.254438068	FALSE
## 36	-1	-0.1889013	-0.335862583	FALSE
## 37	-1	-0.1889013	-0.163083735	FALSE
## 38	-1	-0.1889013	1.773230948	TRUE
## 39	-1	-0.1889013	-1.803489814	FALSE
## 40	1	-0.1889013	-0.361680112	FALSE
## 41	-1	-0.1889013	1.421715360	TRUE
## 42	-1	-0.1889013	-0.828381600	FALSE
## 43	-1	-0.1889013	-2.625678818	FALSE
## 44	-1	-0.1889013	0.923238451	TRUE
## 45	-1	-0.1889013	-1.160037551	FALSE
## 46	-1	-0.1889013	1.141694467	TRUE
## 47	1	-0.1889013	-1.305012906	FALSE
## 48	1	-0.1889013	-0.397427460	FALSE
## 49	-1	-0.1889013	-1.700219698	FALSE
## 50	-1	-0.1889013	1.322417171	TRUE
## 51	-1	-0.1889013	-0.280255597	FALSE
## 52	1	-0.1889013	0.553849189	TRUE
## 53	-1	-0.1889013	-0.385511678	FALSE

## 54	2	-0.1889013	0.790178878	TRUE
## 55	-1	-0.1889013	-0.087617111	FALSE
## 56	-1	-0.1889013	-0.278269634	FALSE
## 57	1	-0.1889013	-0.262381923	FALSE
## 58	1	-0.1889013	-0.427216917	FALSE
## 59	-1	-0.1889013	-0.107476749	FALSE
## 60	-1	-0.1889013	-0.349764330	FALSE
## 61	-1	-0.1889013	-0.212732829	FALSE
## 62	-1	-0.1889013	-0.407357279	FALSE
## 63	2	-0.1889013	-0.190887227	FALSE
## 64	2	-0.1889013	-1.791574032	FALSE
## 65	-1	-0.1889013	1.151624286	TRUE
## 66	-1	-0.1889013	-0.163083735	FALSE
## 67	-1	-0.1889013	-0.425230953	FALSE
## 68	-1	-0.1889013	-1.162023514	FALSE
## 69	-1	-0.1889013	-0.496725649	FALSE
## 70	-1	-0.1889013	-0.451048482	FALSE
## 71	2	-0.1889013	0.657119305	TRUE
## 72	-1	-0.1889013	-0.089603075	FALSE
## 73	-1	-0.1889013	-0.361680112	FALSE
## 74	-1	-0.1889013	0.555835153	TRUE
## 75	2	-0.1889013	0.853729719	TRUE
## 76	2	-0.1889013	-0.550346671	FALSE
## 77	-1	-0.1889013	-0.272311742	FALSE
## 78	2	-0.1889013	-0.528501069	FALSE
## 79	1	-0.1889013	0.573708827	TRUE
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## 81	-1	-0.1889013	-0.010164524	TRUE
## 82	-1	-0.1889013	1.092045373	TRUE
## 83	-1	-0.1889013	0.255954622	TRUE
## 84	-1	-0.1889013	-0.345792402	FALSE
## 85	1	-0.1889013	-0.264367887	FALSE
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## 87	-1	-0.1889013	-0.272311742	FALSE
## 88	-1	-0.1889013	-1.662486386	FALSE
## 89	1	-0.1889013	-2.230472026	FALSE
## 90	-1	-0.1889013	-0.159111807	FALSE
## 91	-1	-0.1889013	-0.308059090	FALSE
## 92	1	-0.1889013	-0.292171380	FALSE
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## 94	-1	-0.1889013	-0.419273062	FALSE
## 95	-1	-0.1889013	-0.343806438	FALSE
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## 1233	-1	-0.1889013	-0.141238133	FALSE
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## 1297	-1	-0.1889013	2.464346342	TRUE
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## 1299	1	-0.1889013	0.176516071	TRUE
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## 1303	-1	-0.1889013	2.301497313	TRUE
## 1304	1	-0.1889013	-0.316002945	FALSE
## 1305	-1	-0.1889013	-1.074641108	FALSE
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## 1335	1	-0.1889013	2.716563742	TRUE
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## 1338	1	-0.1889013	-0.316002945	FALSE
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## 1392	-1	-0.1889013	0.434691362	TRUE
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## 1404      2      -0.1889013 -0.762844795    FALSE
## 1405      2      -0.1889013  0.956999836     TRUE
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## 1422     -1      -0.1889013 -0.212732829    FALSE
## 1423      1      -0.1889013  0.964943691     TRUE
##
## $meta
## $meta$x
## [1] "Hydra_k2"
##
## $meta$y
## [1] "psychosis_4factorv2"
##
## $meta$hasInteraction
## [1] FALSE
##
## $meta$yName
## [1] "psychosis_4factorv2"
##
## $meta$trans
## function (x)
## {
##     structure(x, class = unique(c("AsIs", oldClass(x))))
## }
## <bytecode: 0x7f9cbf81bbb8>
## <environment: namespace:base>
##
## $meta$class
## [1] "lm"
##
##
## attr(,"class")
## [1] "visreg"
##
## $externalizing_4factorv2
## $fit
##   Hydra_k2 externalizing_4factorv2 visregFit visregLwr visregUpr
## 1      -1      -0.2380737 -0.35649787 -0.42356265 -0.2894331
## 2       1      -0.2380737  0.14125925  0.04903707  0.2334814

```

```

## 3      2      -0.2380737  0.06202978 -0.03552750  0.1595871
##
## $res
##      Hydra_k2 externalizing_4factorv2      visregRes visregPos
## 1      -1      -0.2380737 -0.346785537      TRUE
## 2       1      -0.2380737  0.909440227      TRUE
## 3       2      -0.2380737  0.416462208      TRUE
## 4      -1      -0.2380737  0.102405767      TRUE
## 5       1      -0.2380737  0.035215807      FALSE
## 6      -1      -0.2380737 -1.457307232      FALSE
## 7      -1      -0.2380737  1.410722624      TRUE
## 8      -1      -0.2380737 -0.351315197      TRUE
## 9      -1      -0.2380737  0.371165606      TRUE
## 10     2      -0.2380737 -0.053112567      FALSE
## 11     -1      -0.2380737 -0.010080795      TRUE
## 12     -1      -0.2380737  1.258979007      TRUE
## 13     -1      -0.2380737  0.850554644      TRUE
## 14     -1      -0.2380737  0.667858349      TRUE
## 15     -1      -0.2380737  0.748637290      TRUE
## 16     2      -0.2380737 -0.691039713      FALSE
## 17     -1      -0.2380737  2.060728863      TRUE
## 18     1      -0.2380737 -0.977163250      FALSE
## 19     -1      -0.2380737  1.522454242      TRUE
## 20     1      -0.2380737  0.644455105      TRUE
## 21     -1      -0.2380737 -0.154274978      TRUE
## 22     2      -0.2380737  0.564431108      TRUE
## 23     -1      -0.2380737  0.085797013      TRUE
## 24     -1      -0.2380737 -0.278840634      TRUE
## 25     -1      -0.2380737 -0.685000166      FALSE
## 26     -1      -0.2380737 -0.485695117      FALSE
## 27     -1      -0.2380737 -0.379248102      FALSE
## 28     -1      -0.2380737  0.517624619      TRUE
## 29     -1      -0.2380737  0.718439555      TRUE
## 30     -1      -0.2380737 -0.783142804      FALSE
## 31     -1      -0.2380737 -1.153819998      FALSE
## 32     -1      -0.2380737  0.867918342      TRUE
## 33     -1      -0.2380737 -0.549865303      FALSE
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## 36     -1      -0.2380737 -1.063226794      FALSE
## 37     -1      -0.2380737 -0.704628694      FALSE
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## 39     -1      -0.2380737 -0.941680911      FALSE
## 40     1      -0.2380737  1.380524889      TRUE
## 41     -1      -0.2380737 -0.897139253      FALSE
## 42     -1      -0.2380737 -0.609505829      FALSE
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## 45     -1      -0.2380737 -0.786162578      FALSE
## 46     -1      -0.2380737 -0.801261445      FALSE
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## 48     1      -0.2380737 -0.601956396      FALSE
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## 1415      1      -0.2380737 -0.842783330     FALSE
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##
## $meta
## $meta$x
## [1] "Hydra_k2"
##
## $meta$y
## [1] "externalizing_4factorv2"
##
## $meta$hasInteraction
## [1] FALSE
##
## $meta$yName
## [1] "externalizing_4factorv2"
##
## $meta$trans
## function (x)
## {
##     structure(x, class = unique(c("AsIs", oldClass(x))))
## }
## <bytecode: 0x7f9cbf81bbb8>
## <environment: namespace:base>
##
## $meta$class
## [1] "lm"
##
##
## attr(,"class")
## [1] "visreg"
##
## $phobias_4factorv2
## $fit

```



```

## Hydra_k2 phobias_4factorv2 visregFit visregLwr visregUpr
## 1 -1 -0.1084109 -0.230267507 -0.3043837 -0.1561513
## 2 1 -0.1084109 0.267670349 0.1657516 0.3695891
## 3 2 -0.1084109 0.000705203 -0.1071096 0.1085200
##
## $res
## Hydra_k2 phobias_4factorv2 visregRes visregPos
## 1 -1 -0.1084109 1.099418669 TRUE
## 2 1 -0.1084109 0.290138024 TRUE
## 3 2 -0.1084109 -1.551192993 FALSE
## 4 -1 -0.1084109 -0.832412549 FALSE
## 5 1 -0.1084109 1.473602193 TRUE
## 6 -1 -0.1084109 -1.264028893 FALSE
## 7 -1 -0.1084109 0.234445592 TRUE
## 8 -1 -0.1084109 0.011675866 TRUE
## 9 -1 -0.1084109 1.872151156 TRUE
## 10 2 -0.1084109 -0.106670551 FALSE
## 11 -1 -0.1084109 0.904495159 TRUE
## 12 -1 -0.1084109 -0.042276177 TRUE
## 13 -1 -0.1084109 -1.055182275 FALSE
## 14 -1 -0.1084109 0.728715922 TRUE
## 15 -1 -0.1084109 1.833862610 TRUE
## 16 2 -0.1084109 -0.263305514 FALSE
## 17 -1 -0.1084109 -1.246625008 FALSE
## 18 1 -0.1084109 0.942783706 TRUE
## 19 -1 -0.1084109 0.854023893 TRUE
## 20 1 -0.1084109 0.041262470 FALSE
## 21 -1 -0.1084109 1.391803935 TRUE
## 22 2 -0.1084109 -2.289117711 FALSE
## 23 -1 -0.1084109 1.048947403 TRUE
## 24 -1 -0.1084109 0.906235547 TRUE
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## 26 -1 -0.1084109 -0.031833846 TRUE
## 27 -1 -0.1084109 -0.588758161 FALSE
## 28 -1 -0.1084109 -0.865479930 FALSE
## 29 -1 -0.1084109 0.441551822 TRUE
## 30 -1 -0.1084109 0.300580355 TRUE
## 31 -1 -0.1084109 -0.745393125 FALSE
## 32 -1 -0.1084109 0.873168166 TRUE
## 33 -1 -0.1084109 -0.816749053 FALSE
## 34 -1 -0.1084109 -0.962941685 FALSE
## 35 -1 -0.1084109 0.351051621 TRUE
## 36 -1 -0.1084109 -0.463450190 FALSE
## 37 -1 -0.1084109 1.256053633 TRUE
## 38 -1 -0.1084109 -0.768018175 FALSE
## 39 -1 -0.1084109 -0.907249254 FALSE
## 40 1 -0.1084109 1.327409561 TRUE
## 41 -1 -0.1084109 -0.573094665 FALSE
## 42 -1 -0.1084109 0.732196699 TRUE
## 43 -1 -0.1084109 1.727698912 TRUE
## 44 -1 -0.1084109 0.060406744 TRUE
## 45 -1 -0.1084109 -0.564392722 FALSE
## 46 -1 -0.1084109 -0.687960305 FALSE
## 47 1 -0.1084109 1.470121416 TRUE

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##
## $meta
## $meta$x
## [1] "Hydra_k2"
##
## $meta$y
## [1] "phobias_4factorv2"
##
## $meta$hasInteraction
## [1] FALSE
##
## $meta$yName
## [1] "phobias_4factorv2"
##
## $meta$trans
## function (x)
## {
##     structure(x, class = unique(c("AsIs", oldClass(x))))
## }
## <bytecode: 0x7f9cbf81bbb8>
## <environment: namespace:base>
##
## $meta$class
## [1] "lm"
##
##
## attr(,"class")
## [1] "visreg"

```

```

##
## $overall_psychopathology_4factorv2
## $fit
##   Hydra_k2 overall_psychopathology_4factorv2 visregFit visregLwr
## 1      -1                0.2343075 -0.4891738 -0.5472966
## 2       1                0.2343075  0.9841455  0.9042197
## 3       2                0.2343075  0.8732109  0.7886613
##   visregUpr
## 1 -0.4310511
## 2  1.0640712
## 3  0.9577604
##
## $res
##   Hydra_k2 overall_psychopathology_4factorv2 visregRes visregPos
## 1      -1                0.2343075  1.450718839      TRUE
## 2       1                0.2343075  0.816178515     FALSE
## 3       2                0.2343075  0.882642225      TRUE
## 4      -1                0.2343075 -0.252256972      TRUE
## 5       1                0.2343075  1.571105936      TRUE
## 6      -1                0.2343075  0.792351902      TRUE
## 7      -1                0.2343075  0.221767223      TRUE
## 8      -1                0.2343075 -0.042833584      TRUE
## 9      -1                0.2343075 -0.168236810      TRUE
## 10     2                0.2343075  1.016823677      TRUE
## 11     -1                0.2343075  0.743444644      TRUE
## 12     -1                0.2343075  0.898944644      TRUE
## 13     -1                0.2343075 -1.225386007     FALSE
## 14     -1                0.2343075 -0.357595682      TRUE
## 15     -1                0.2343075 -0.001450520      TRUE
## 16     2                0.2343075 -0.291131972     FALSE
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## 21     -1                0.2343075  0.121444642      TRUE
## 22     2                0.2343075  1.522198678      TRUE
## 23     -1                0.2343075  0.022376093      TRUE
## 24     -1                0.2343075  0.254372062      TRUE
## 25     -1                0.2343075 -0.662325522     FALSE
## 26     -1                0.2343075 -0.267305359      TRUE
## 27     -1                0.2343075 -0.158204552      TRUE
## 28     -1                0.2343075 -0.851684393     FALSE
## 29     -1                0.2343075 -0.046595681      TRUE
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## 31     -1                0.2343075 -0.548208586     FALSE
## 32     -1                0.2343075 -0.521873908     FALSE
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## 1134	2	0.2343075	1.764226905	TRUE
## 1135	-1	0.2343075	-0.069168262	TRUE
## 1136	-1	0.2343075	-0.812809393	FALSE
## 1137	-1	0.2343075	-1.274293265	FALSE
## 1138	-1	0.2343075	-0.523127940	FALSE
## 1139	1	0.2343075	-0.350071488	FALSE
## 1140	2	0.2343075	2.085259164	TRUE
## 1141	-1	0.2343075	-0.530652134	FALSE
## 1142	1	0.2343075	0.891420451	FALSE
## 1143	2	0.2343075	0.648138192	FALSE
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## 1145	-1	0.2343075	-0.856700522	FALSE
## 1146	-1	0.2343075	-0.771426328	FALSE
## 1147	2	0.2343075	0.172859965	FALSE
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## 1149	-1	0.2343075	-0.240970682	TRUE
## 1150	2	0.2343075	1.359174484	TRUE
## 1151	-1	0.2343075	-1.313168265	FALSE
## 1152	-1	0.2343075	-0.826603748	FALSE
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## 1154	1	0.2343075	1.962364002	TRUE
## 1155	-1	0.2343075	-0.984611813	FALSE
## 1156	1	0.2343075	1.009299483	TRUE
## 1157	2	0.2343075	1.325315613	TRUE
## 1158	1	0.2343075	0.728396257	FALSE
## 1159	2	0.2343075	1.594932549	TRUE
## 1160	2	0.2343075	1.756702711	TRUE
## 1161	-1	0.2343075	-0.904353748	FALSE
## 1162	-1	0.2343075	-0.821587619	FALSE
## 1163	-1	0.2343075	0.692029321	TRUE
## 1164	-1	0.2343075	-0.400232779	TRUE
## 1165	-1	0.2343075	-1.339502943	FALSE
## 1166	2	0.2343075	-0.430329553	FALSE
## 1167	-1	0.2343075	1.036888193	TRUE
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## 1169	2	0.2343075	-0.105535197	FALSE
## 1170	1	0.2343075	0.411126094	FALSE
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## 1172	-1	0.2343075	-0.128107778	TRUE
## 1173	-1	0.2343075	-0.879273103	FALSE
## 1174	2	0.2343075	0.786081741	FALSE

## 1175	1	0.2343075	1.616251098	TRUE
## 1176	1	0.2343075	0.383537385	FALSE
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## 1178	-1	0.2343075	-0.969563426	FALSE
## 1179	-1	0.2343075	0.852545450	TRUE
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## 1183	-1	0.2343075	-0.790236812	FALSE
## 1184	1	0.2343075	1.019331741	TRUE
## 1185	-1	0.2343075	-1.321946491	FALSE
## 1186	1	0.2343075	0.382283352	FALSE
## 1187	-1	0.2343075	-1.602849718	FALSE
## 1188	-1	0.2343075	-0.506825521	FALSE
## 1189	1	0.2343075	-0.006466649	FALSE
## 1190	1	0.2343075	0.492638191	FALSE
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## 1192	-1	0.2343075	-1.067377942	FALSE
## 1193	1	0.2343075	0.870101902	FALSE
## 1194	-1	0.2343075	-1.449857782	FALSE
## 1195	2	0.2343075	0.365980933	FALSE
## 1196	-1	0.2343075	-0.918148103	FALSE
## 1197	-1	0.2343075	-1.923881977	FALSE
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## 1199	2	0.2343075	0.018613997	FALSE
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## 1201	-1	0.2343075	-2.022950525	FALSE
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## 1203	-1	0.2343075	-0.738821489	FALSE
## 1204	-1	0.2343075	0.396077707	TRUE
## 1205	-1	0.2343075	-1.038535200	FALSE
## 1206	2	0.2343075	2.238251099	TRUE
## 1207	-1	0.2343075	0.446238998	TRUE
## 1208	1	0.2343075	-0.479236811	FALSE
## 1209	2	0.2343075	1.278916419	TRUE
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## 1212	-1	0.2343075	-0.569527134	FALSE
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## 1217	-1	0.2343075	-0.403994876	TRUE
## 1218	1	0.2343075	1.381747065	TRUE
## 1219	-1	0.2343075	-0.659817457	FALSE
## 1220	1	0.2343075	-0.086724713	FALSE
## 1221	1	0.2343075	0.151541416	FALSE
## 1222	2	0.2343075	0.432444643	FALSE
## 1223	2	0.2343075	-0.973325522	FALSE
## 1224	-1	0.2343075	-1.103744878	FALSE
## 1225	-1	0.2343075	-1.468668266	FALSE
## 1226	2	0.2343075	-0.011482778	FALSE
## 1227	-1	0.2343075	-0.262289230	TRUE
## 1228	1	0.2343075	1.786799485	TRUE

## 1229	-1	0.2343075	-0.751361812	FALSE
## 1230	1	0.2343075	0.001057545	FALSE
## 1231	-1	0.2343075	-1.422269072	FALSE
## 1232	-1	0.2343075	-0.766410199	FALSE
## 1233	-1	0.2343075	-1.380886007	FALSE
## 1234	-1	0.2343075	-0.202095682	TRUE
## 1235	-1	0.2343075	-0.479236811	TRUE
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## 1241	2	0.2343075	0.907722870	TRUE
## 1242	-1	0.2343075	-1.184002942	FALSE
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## 1245	2	0.2343075	0.046202706	FALSE
## 1246	-1	0.2343075	0.205464803	TRUE
## 1247	2	0.2343075	1.247565613	TRUE
## 1248	-1	0.2343075	-1.345773104	FALSE
## 1249	-1	0.2343075	-1.340756975	FALSE
## 1250	1	0.2343075	1.530976904	TRUE
## 1251	-1	0.2343075	-0.319974714	TRUE
## 1252	-1	0.2343075	-0.120583585	TRUE
## 1253	-1	0.2343075	-0.056627939	TRUE
## 1254	2	0.2343075	0.743444644	FALSE
## 1255	1	0.2343075	2.669638197	TRUE
## 1256	2	0.2343075	1.786799485	TRUE
## 1257	-1	0.2343075	-0.855446490	FALSE
## 1258	-1	0.2343075	-0.824095683	FALSE
## 1259	-1	0.2343075	-1.034773103	FALSE
## 1260	2	0.2343075	0.540291417	FALSE
## 1261	-1	0.2343075	0.011089803	TRUE
## 1262	-1	0.2343075	0.737174482	TRUE
## 1263	1	0.2343075	-0.392708585	FALSE
## 1264	1	0.2343075	1.061968838	TRUE
## 1265	-1	0.2343075	-1.229148104	FALSE
## 1266	-1	0.2343075	-0.967055361	FALSE
## 1267	1	0.2343075	1.396795452	TRUE
## 1268	-1	0.2343075	-1.214099717	FALSE
## 1269	-1	0.2343075	-0.179523101	TRUE
## 1270	-1	0.2343075	-1.434809395	FALSE
## 1271	-1	0.2343075	-0.233446488	TRUE
## 1272	-1	0.2343075	-0.523127940	FALSE
## 1273	1	0.2343075	-0.861716651	FALSE
## 1274	1	0.2343075	1.651364001	TRUE
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## 1276	1	0.2343075	-0.239716649	FALSE
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## 1280	-1	0.2343075	-1.033519071	FALSE
## 1281	2	0.2343075	1.233771258	TRUE
## 1282	-1	0.2343075	-0.806539232	FALSE

## 1283	2	0.2343075	2.458960778	TRUE
## 1284	-1	0.2343075	-1.306898104	FALSE
## 1285	2	0.2343075	-0.144410197	FALSE
## 1286	1	0.2343075	0.840005128	FALSE
## 1287	-1	0.2343075	-0.420297295	TRUE
## 1288	-1	0.2343075	0.338392223	TRUE
## 1289	-1	0.2343075	-0.846668264	FALSE
## 1290	-1	0.2343075	-0.989627942	FALSE
## 1291	-1	0.2343075	-1.893785202	FALSE
## 1292	-1	0.2343075	-0.247240843	TRUE
## 1293	-1	0.2343075	-1.952724719	FALSE
## 1294	1	0.2343075	0.184146255	FALSE
## 1295	-1	0.2343075	-0.929434393	FALSE
## 1296	-1	0.2343075	-1.940184396	FALSE
## 1297	-1	0.2343075	-0.494285198	FALSE
## 1298	-1	0.2343075	-0.103027133	TRUE
## 1299	1	0.2343075	0.214243029	FALSE
## 1300	-1	0.2343075	-0.538176328	FALSE
## 1301	2	0.2343075	-0.436599714	FALSE
## 1302	-1	0.2343075	1.257597871	TRUE
## 1303	-1	0.2343075	-0.218398101	TRUE
## 1304	1	0.2343075	-0.076692455	FALSE
## 1305	-1	0.2343075	0.631835772	TRUE
## 1306	2	0.2343075	0.727142224	FALSE
## 1307	2	0.2343075	-0.269813424	FALSE
## 1308	-1	0.2343075	-2.037998912	FALSE
## 1309	2	0.2343075	1.119654322	TRUE
## 1310	-1	0.2343075	-0.330006972	TRUE
## 1311	-1	0.2343075	-0.006466649	TRUE
## 1312	1	0.2343075	1.591170453	TRUE
## 1313	1	0.2343075	-0.341293263	FALSE
## 1314	1	0.2343075	1.478307549	TRUE
## 1315	1	0.2343075	0.194178513	FALSE
## 1316	-1	0.2343075	-1.950216654	FALSE
## 1317	-1	0.2343075	-1.190273104	FALSE
## 1318	2	0.2343075	0.350932546	FALSE
## 1319	2	0.2343075	1.691493033	TRUE
## 1320	1	0.2343075	0.811162386	FALSE
## 1321	1	0.2343075	1.579884162	TRUE
## 1322	-1	0.2343075	-0.242224714	TRUE
## 1323	-1	0.2343075	-1.103744878	FALSE
## 1324	1	0.2343075	1.415605936	TRUE
## 1325	1	0.2343075	-0.268559391	FALSE
## 1326	-1	0.2343075	-2.002886009	FALSE
## 1327	2	0.2343075	-0.192063423	FALSE
## 1328	2	0.2343075	0.133984965	FALSE
## 1329	-1	0.2343075	-0.431583585	TRUE
## 1330	-1	0.2343075	-0.619688425	FALSE
## 1331	-1	0.2343075	-1.619152137	FALSE
## 1332	-1	0.2343075	-0.579559392	FALSE
## 1333	2	0.2343075	1.720335775	TRUE
## 1334	-1	0.2343075	-1.827321493	FALSE
## 1335	1	0.2343075	2.264585777	TRUE
## 1336	-1	0.2343075	-1.310660201	FALSE

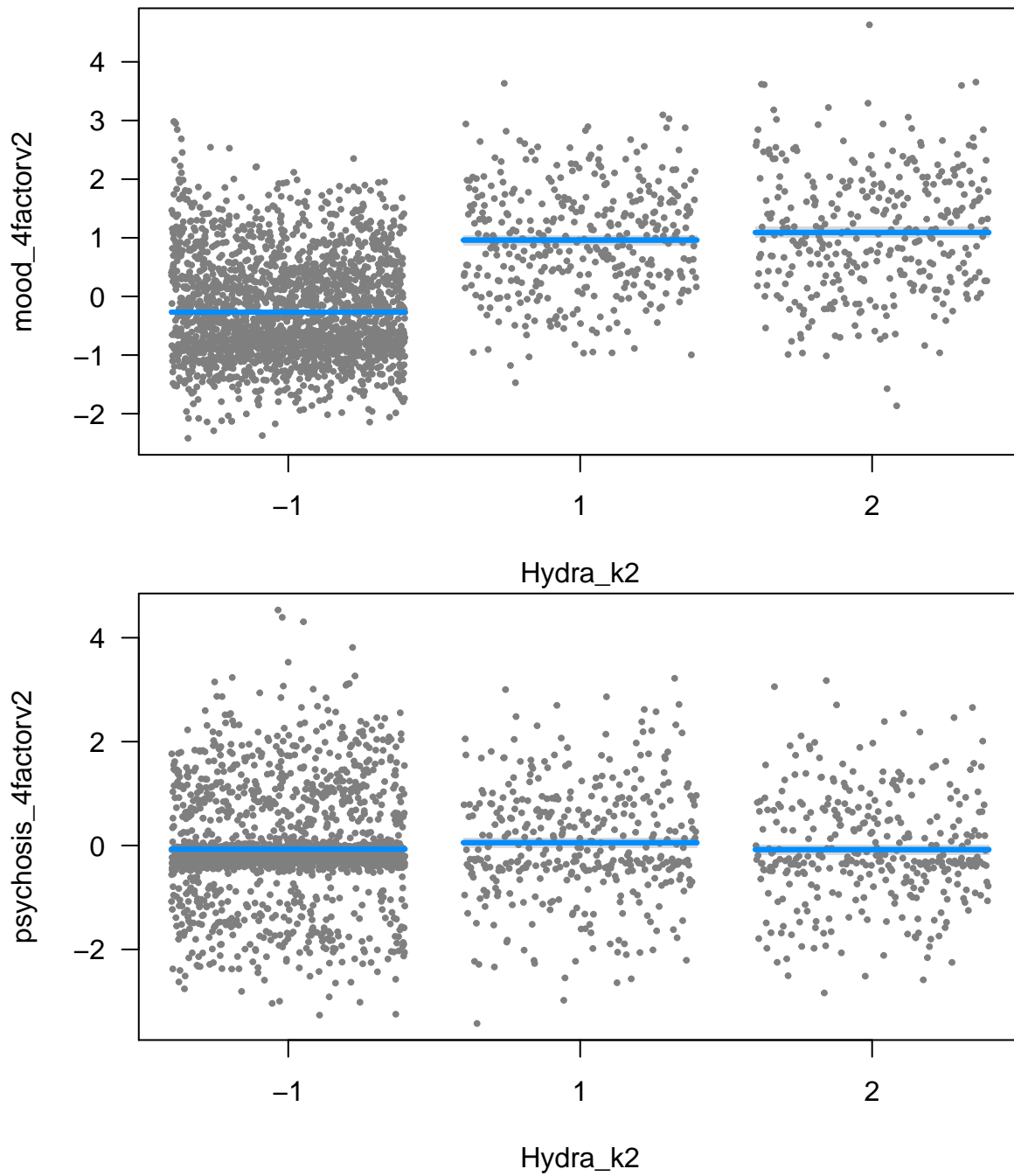
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## 1338	1	0.2343075	-0.237208585	FALSE
## 1339	-1	0.2343075	0.397331740	TRUE
## 1340	1	0.2343075	1.949823679	TRUE
## 1341	-1	0.2343075	-1.649248911	FALSE
## 1342	2	0.2343075	0.165335771	FALSE
## 1343	-1	0.2343075	-1.170208587	FALSE
## 1344	-1	0.2343075	-0.116821488	TRUE
## 1345	-1	0.2343075	-1.216607781	FALSE
## 1346	-1	0.2343075	-0.545700521	FALSE
## 1347	2	0.2343075	1.104605935	TRUE
## 1348	1	0.2343075	0.337138191	FALSE
## 1349	1	0.2343075	1.148497064	TRUE
## 1350	1	0.2343075	0.833734967	FALSE
## 1351	2	0.2343075	0.432444643	FALSE
## 1352	-1	0.2343075	-0.687406167	FALSE
## 1353	2	0.2343075	1.468275291	TRUE
## 1354	2	0.2343075	-0.282353746	FALSE
## 1355	1	0.2343075	2.159247067	TRUE
## 1356	-1	0.2343075	-0.967055361	FALSE
## 1357	-1	0.2343075	-0.047849713	TRUE
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## 1359	-1	0.2343075	0.101380126	TRUE
## 1360	-1	0.2343075	-1.698156170	FALSE
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## 1362	-1	0.2343075	-0.370136005	TRUE
## 1363	-1	0.2343075	-1.145127942	FALSE
## 1364	-1	0.2343075	-0.316212617	TRUE
## 1365	1	0.2343075	1.597440614	TRUE
## 1366	2	0.2343075	0.705823676	FALSE
## 1367	-1	0.2343075	-1.946454557	FALSE
## 1368	-1	0.2343075	-1.733269073	FALSE
## 1369	-1	0.2343075	1.251327710	TRUE
## 1370	-1	0.2343075	-1.094966652	FALSE
## 1371	1	0.2343075	1.720335775	TRUE
## 1372	2	0.2343075	1.118400290	TRUE
## 1373	-1	0.2343075	-0.129361810	TRUE
## 1374	-1	0.2343075	-1.681853750	FALSE
## 1375	1	0.2343075	0.532767224	FALSE
## 1376	-1	0.2343075	-1.457381975	FALSE
## 1377	1	0.2343075	0.280706739	FALSE
## 1378	-1	0.2343075	-1.178986813	FALSE
## 1379	1	0.2343075	1.198658355	TRUE
## 1380	1	0.2343075	1.238787387	TRUE
## 1381	-1	0.2343075	-1.338248911	FALSE
## 1382	-1	0.2343075	-0.615926328	FALSE
## 1383	2	0.2343075	0.393569643	FALSE
## 1384	-1	0.2343075	0.036170448	TRUE
## 1385	2	0.2343075	0.360964804	FALSE
## 1386	2	0.2343075	0.088839803	FALSE
## 1387	-1	0.2343075	-0.646023102	FALSE
## 1388	1	0.2343075	1.528468839	TRUE
## 1389	2	0.2343075	0.281960771	FALSE
## 1390	-1	0.2343075	-0.277337617	TRUE

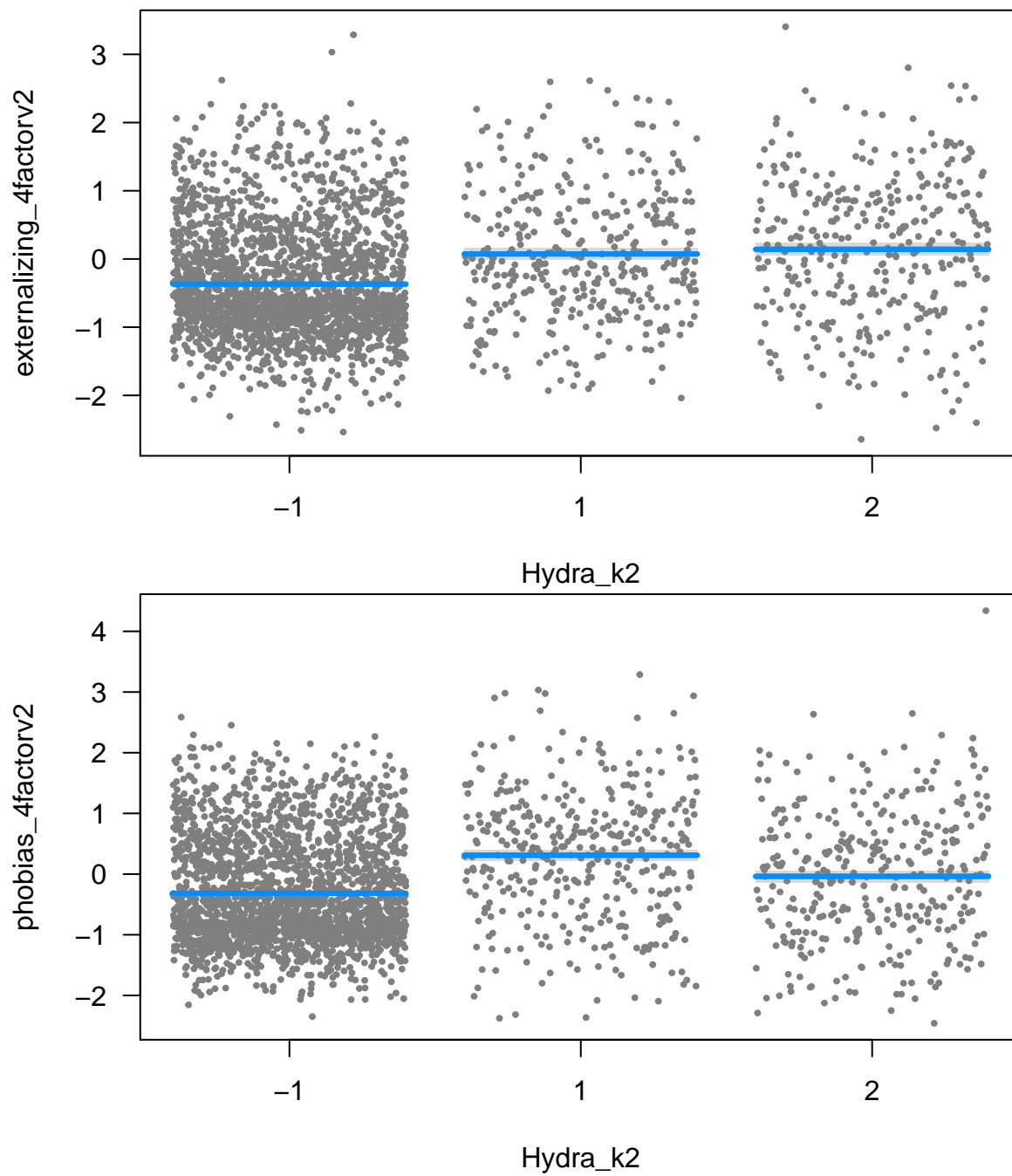
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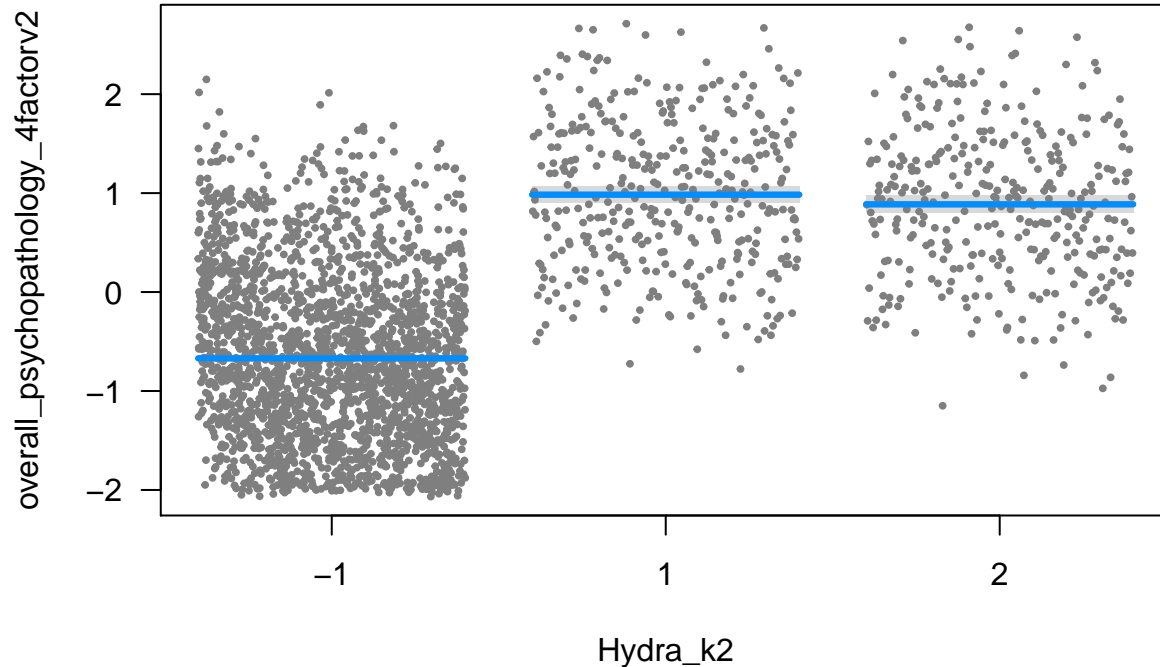
## 1391      -1      0.2343075 -1.113777136      FALSE
## 1392      -1      0.2343075  0.472573675       TRUE
## 1393      -1      0.2343075 -0.158204552       TRUE
## 1394       1      0.2343075  1.209944645       TRUE
## 1395       1      0.2343075  1.487085775       TRUE
## 1396      -1      0.2343075 -0.941974716      FALSE
## 1397       1      0.2343075  2.110339809       TRUE
## 1398      -1      0.2343075  0.986726902       TRUE
## 1399       1      0.2343075  1.441940613       TRUE
## 1400      -1      0.2343075 -1.928898106      FALSE
## 1401       1      0.2343075  1.836960776       TRUE
## 1402      -1      0.2343075 -0.629720683      FALSE
## 1403      -1      0.2343075  0.388553514       TRUE
## 1404       2      0.2343075  0.829972870      FALSE
## 1405       2      0.2343075 -0.213381972      FALSE
## 1406       1      0.2343075  1.591170453       TRUE
## 1407       2      0.2343075  0.190416416      FALSE
## 1408       2      0.2343075  0.620549482      FALSE
## 1409       1      0.2343075  0.735920450      FALSE
## 1410       1      0.2343075  0.748460773      FALSE
## 1411       2      0.2343075  0.962900289       TRUE
## 1412       1      0.2343075  0.732158353      FALSE
## 1413      -1      0.2343075  0.164081739       TRUE
## 1414       2      0.2343075  0.394823675      FALSE
## 1415       1      0.2343075  0.249355933      FALSE
## 1416       1      0.2343075  0.605501095      FALSE
## 1417      -1      0.2343075  0.266912384       TRUE
## 1418       1      0.2343075  0.329613997      FALSE
## 1419      -1      0.2343075 -1.357059394      FALSE
## 1420      -1      0.2343075 -1.841115847      FALSE
## 1421       1      0.2343075  2.214424487       TRUE
## 1422      -1      0.2343075 -1.701918266      FALSE
## 1423       1      0.2343075  0.537783353      FALSE
##
## $meta
## $meta$x
## [1] "Hydra_k2"
##
## $meta$y
## [1] "overall_psychopathology_4factorv2"
##
## $meta$hasInteraction
## [1] FALSE
##
## $meta$yName
## [1] "overall_psychopathology_4factorv2"
##
## $meta$trans
## function (x)
## {
##     structure(x, class = unique(c("AsIs", oldClass(x))))
## }
## <bytecode: 0x7f9cbf81bbb8>
## <environment: namespace:base>

```

```
##
## $meta$class
## [1] "lm"
##
##
## attr("class")
## [1] "visreg"
lapply(clinical_cog_score_cluster_stats_lm_AG_unmatched, function(x) {visreg(x)})
```







```
## $mood_4factorv2
## $fit
##   Hydra_k2 mood_4factorv2 visregFit visregLwr visregUpr
## 1      -1      -0.1240654 -0.2685618 -0.3043882 -0.2327354
## 2       1      -0.1240654  0.9609023  0.8723522  1.0494525
## 3       2      -0.1240654  1.0911452  0.9981616  1.1841287
##
## $res
##   Hydra_k2 mood_4factorv2 visregRes visregPos
## 1      -1      -0.1240654  0.409515203    TRUE
## 2      -1      -0.1240654  0.358555255    TRUE
## 3      -1      -0.1240654  1.467683543    TRUE
## 4      -1      -0.1240654 -0.839003532   FALSE
## 5      -1      -0.1240654 -0.121067789    TRUE
## 6      -1      -0.1240654  0.433496355    TRUE
## 7      -1      -0.1240654  0.436493999    TRUE
## 8      -1      -0.1240654 -0.653149603   FALSE
## 9       1      -0.1240654  0.357056433   FALSE
## 10     -1      -0.1240654  1.152930921    TRUE
## 11      2      -0.1240654  2.573814188    TRUE
## 12     -1      -0.1240654  0.820192434    TRUE
## 13      1      -0.1240654  0.394526983   FALSE
## 14     -1      -0.1240654 -1.101297384   FALSE
## 15     -1      -0.1240654 -1.012866886   FALSE
## 16     -1      -0.1240654 -1.288650136   FALSE
## 17     -1      -0.1240654  0.255136536    TRUE
## 18     -1      -0.1240654  1.088481574    TRUE
## 19     -1      -0.1240654 -1.481998175   FALSE
## 20     -1      -0.1240654  0.503940990    TRUE
## 21     -1      -0.1240654  1.403234197    TRUE
## 22     -1      -0.1240654  0.695790207    TRUE
## 23     -1      -0.1240654  0.547406828    TRUE
```

## 24	-1	-0.1240654	0.985062856	TRUE
## 25	1	-0.1240654	0.144223707	FALSE
## 26	-1	-0.1240654	1.064500422	TRUE
## 27	-1	-0.1240654	2.979994953	TRUE
## 28	-1	-0.1240654	1.741967971	TRUE
## 29	-1	-0.1240654	0.351061145	TRUE
## 30	-1	-0.1240654	-0.877972905	FALSE
## 31	-1	-0.1240654	2.979994953	TRUE
## 32	-1	-0.1240654	-0.897457591	FALSE
## 33	-1	-0.1240654	-1.194224349	FALSE
## 34	-1	-0.1240654	0.307595306	TRUE
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##
## $meta
## $meta$x
## [1] "Hydra_k2"
##
## $meta$y
## [1] "mood_4factorv2"
##
## $meta$hasInteraction
## [1] FALSE
##
## $meta$yName
## [1] "mood_4factorv2"
##
## $meta$trans
## function (x)
## {
##     structure(x, class = unique(c("AsIs", oldClass(x))))
## }
## <bytecode: 0x7f9cbf81bbb8>
## <environment: namespace:base>
##
## $meta$class
## [1] "lm"
##
##
## attr(,"class")
## [1] "visreg"
##
## $psychosis_4factorv2
## $fit
## Hydra_k2 psychosis_4factorv2 visregFit visregLwr visregUp
## 1      -1      -0.1829434 -0.06954718 -0.1078532 -0.03124119

```

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## 2      1      -0.1829434  0.05533531 -0.0393436  0.15001422
## 3      2      -0.1829434 -0.07838616 -0.1778053  0.02103297
##
## $res
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## 1          -1          -0.1829434 -1.076627072    FALSE
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## 11          2          -0.1829434 -0.002220669     TRUE
## 12         -1          -0.1829434 -0.234578430    FALSE
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##				
## \$meta				
## \$meta\$x				
## [1] "Hydra_k2"				
##				

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## $meta$y
## [1] "psychosis_4factorv2"
##
## $meta$hasInteraction
## [1] FALSE
##
## $meta$yName
## [1] "psychosis_4factorv2"
##
## $meta$trans
## function (x)
## {
##     structure(x, class = unique(c("AsIs", oldClass(x))))
## }
## <bytecode: 0x7f9cbf81bbb8>
## <environment: namespace:base>
##
## $meta$class
## [1] "lm"
##
## attr("class")
## [1] "visreg"
##
## $externalizing_4factorv2
## $fit
##   Hydra_k2 externalizing_4factorv2 visregFit visregLwr visregUpr
## 1      -1      -0.4826753 -0.36829271 -0.40350674 -0.3330787
## 2       1      -0.4826753  0.07340068 -0.01363599  0.1604374
## 3       2      -0.4826753  0.14179344  0.05039917  0.2331877
##
## $res
##   Hydra_k2 externalizing_4factorv2 visregRes visregPos
## 1      -1      -0.4826753 -1.202891317 FALSE
## 2      -1      -0.4826753  0.412687491 TRUE
## 3      -1      -0.4826753 -0.346785537 TRUE
## 4      -1      -0.4826753 -0.534011493 FALSE
## 5      -1      -0.4826753  0.354556852 TRUE
## 6      -1      -0.4826753  0.870183172 TRUE
## 7      -1      -0.4826753 -1.152310111 FALSE
## 8      -1      -0.4826753 -0.542315870 FALSE
## 9       1      -0.4826753  0.909440227 TRUE
## 10     -1      -0.4826753 -0.207875958 TRUE
## 11      2      -0.4826753  0.416462208 TRUE
## 12     -1      -0.4826753  0.102405767 TRUE
## 13      1      -0.4826753  0.035215807 FALSE
## 14     -1      -0.4826753  0.247354893 TRUE
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## 19     -1      -0.4826753 -1.341800896 FALSE
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## $meta
## $meta$x
## [1] "Hydra_k2"
##
## $meta$y
## [1] "externalizing_4factorv2"
##
## $meta$hasInteraction
## [1] FALSE
##
## $meta$yName
## [1] "externalizing_4factorv2"
##
## $meta$trans
## function (x)
## {
##     structure(x, class = unique(c("AsIs", oldClass(x))))
## }
## <bytecode: 0x7f9cbf81bbb8>
## <environment: namespace:base>
##
## $meta$class
## [1] "lm"
##
##
## attr(,"class")
## [1] "visreg"
##
## $phobias_4factorv2
## $fit

```

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## Hydra_k2 phobias_4factorv2 visregFit visregLwr visregUpr
## 1 -1 -0.4007962 -0.31591040 -0.3533924 -0.27842843
## 2 1 -0.4007962 0.31008769 0.2174454 0.40272993
## 3 2 -0.4007962 -0.03724385 -0.1345244 0.06003665
##
## $res
## Hydra_k2 phobias_4factorv2 visregRes visregPos
## 1 -1 -0.4007962 -0.331180665 FALSE
## 2 -1 -0.4007962 -0.320738334 FALSE
## 3 -1 -0.4007962 1.099418669 TRUE
## 4 -1 -0.4007962 1.470121416 TRUE
## 5 -1 -0.4007962 0.561638627 TRUE
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## 7 -1 -0.4007962 -0.858518376 FALSE
## 8 -1 -0.4007962 0.768744857 TRUE
## 9 1 -0.4007962 0.290138024 FALSE
## 10 -1 -0.4007962 -0.369469212 FALSE
## 11 2 -0.4007962 -1.551192993 FALSE
## 12 -1 -0.4007962 -0.832412549 FALSE
## 13 1 -0.4007962 1.473602193 TRUE
## 14 -1 -0.4007962 -1.418923468 FALSE
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## 20 -1 -0.4007962 0.011675866 TRUE
## 21 -1 -0.4007962 0.413705606 TRUE
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## 37 -1 -0.4007962 1.833862610 TRUE
## 38 2 -0.4007962 -0.263305514 FALSE
## 39 -1 -0.4007962 -0.734950794 FALSE
## 40 -1 -0.4007962 -1.246625008 FALSE
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## 42 1 -0.4007962 0.942783706 TRUE
## 43 -1 -0.4007962 0.854023893 TRUE
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## 47 1 -0.4007962 0.041262470 FALSE

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##				
## \$meta				
## \$meta\$x				

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## [1] "Hydra_k2"
##
## $meta$y
## [1] "phobias_4factorv2"
##
## $meta$hasInteraction
## [1] FALSE
##
## $meta$yName
## [1] "phobias_4factorv2"
##
## $meta$trans
## function (x)
## {
##     structure(x, class = unique(c("AsIs", oldClass(x))))
## }
## <bytecode: 0x7f9cbf81bbb8>
## <environment: namespace:base>
##
## $meta$class
## [1] "lm"
##
##
## attr("class")
## [1] "visreg"
##
## $overall_psychopathology_4factorv2
## $fit
##   Hydra_k2 overall_psychopathology_4factorv2 visregFit visregLwr
## 1      -1                -0.4027408 -0.6695342 -0.7032336
## 2       1                -0.4027408  0.9840121  0.9007190
## 3       2                -0.4027408  0.8866066  0.7991433
##   visregUpr
## 1 -0.6358348
## 2  1.0673051
## 3  0.9740698
##
## $res
##   Hydra_k2 overall_psychopathology_4factorv2 visregRes visregPos
## 1      -1                -0.4027408  0.337138191    TRUE
## 2      -1                -0.4027408  0.600484966    TRUE
## 3      -1                -0.4027408  1.450718839    TRUE
## 4      -1                -0.4027408 -1.259244878   FALSE
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## 8      -1                -0.4027408  2.017541421    TRUE
## 9       1                -0.4027408  0.816178515   FALSE
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## 11      2                -0.4027408  0.882642225   FALSE
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## 15     -1                -0.4027408 -0.452902134    TRUE

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## 2853	-1	-0.4027408	-1.681853750	FALSE
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## 2856	-1	-0.4027408	-1.493748911	FALSE
## 2857	1	-0.4027408	0.833734967	FALSE
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## 2859	-1	-0.4027408	-1.713204557	FALSE
## 2860	-1	-0.4027408	-1.200305362	FALSE
## 2861	-1	-0.4027408	-0.687406167	FALSE
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## 2903	-1	-0.4027408	-1.200305362	FALSE
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## 2921	-1	-0.4027408	-1.338248911	FALSE
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## 2925	-1	-0.4027408	-1.254228749	FALSE
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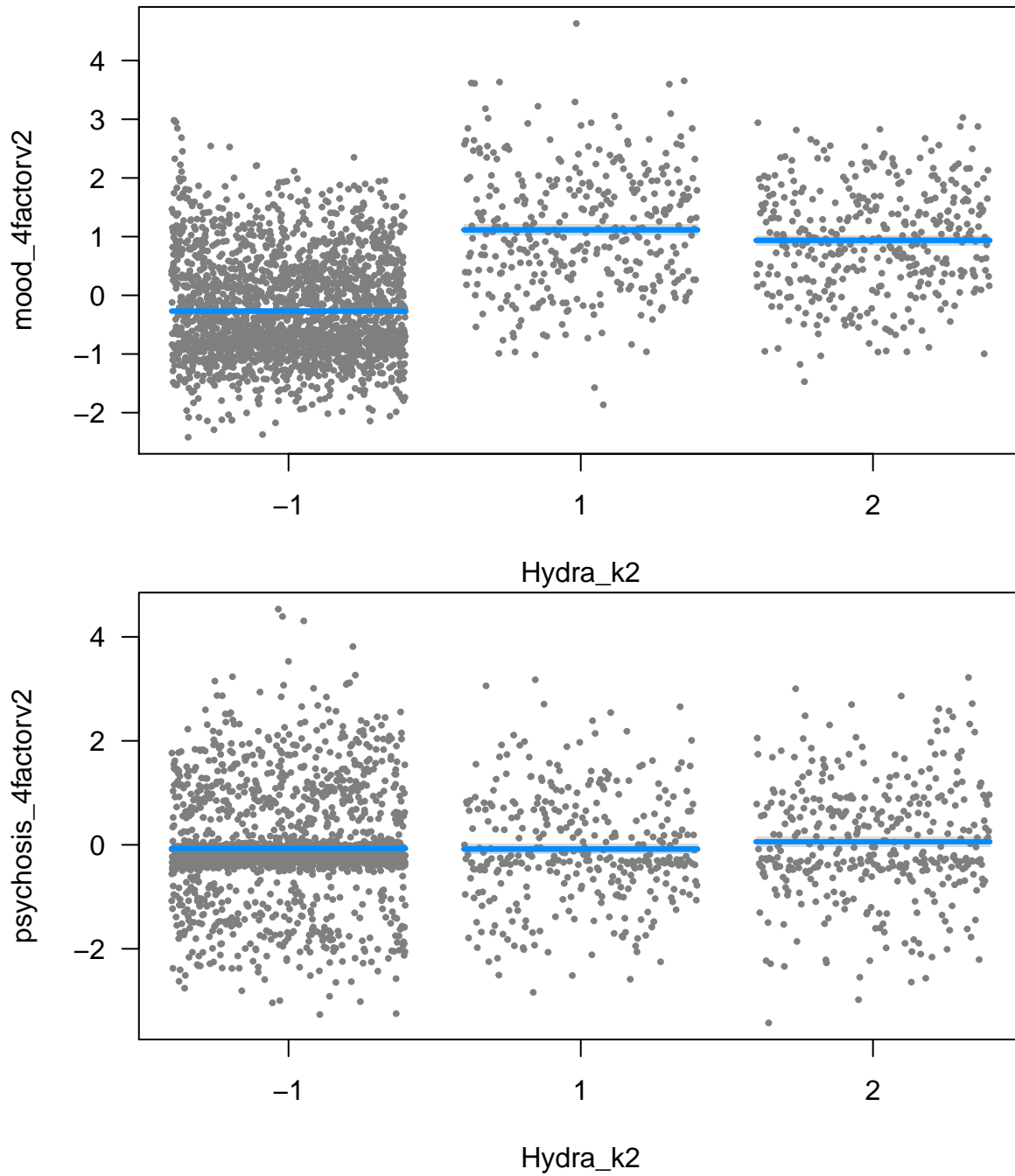
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## 2939	-1	-0.4027408	-0.646023102	TRUE
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## 2946	-1	-0.4027408	-0.302418262	TRUE
## 2947	-1	-0.4027408	0.472573675	TRUE
## 2948	-1	-0.4027408	-0.158204552	TRUE
## 2949	-1	-0.4027408	-1.807256976	FALSE
## 2950	2	-0.4027408	1.209944645	TRUE
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## 2953	-1	-0.4027408	-0.941974716	FALSE
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## 2956	-1	-0.4027408	0.986726902	TRUE
## 2957	-1	-0.4027408	-1.252974717	FALSE
## 2958	-1	-0.4027408	-1.739539234	FALSE
## 2959	-1	-0.4027408	0.434952707	TRUE
## 2960	-1	-0.4027408	0.053726900	TRUE
## 2961	2	-0.4027408	1.441940613	TRUE
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## 2963	-1	-0.4027408	-1.928898106	FALSE
## 2964	1	-0.4027408	1.836960776	TRUE
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## 2968	-1	-0.4027408	0.388553514	TRUE
## 2969	-1	-0.4027408	-1.589055363	FALSE
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## 2983	1	-0.4027408	0.732158353	FALSE
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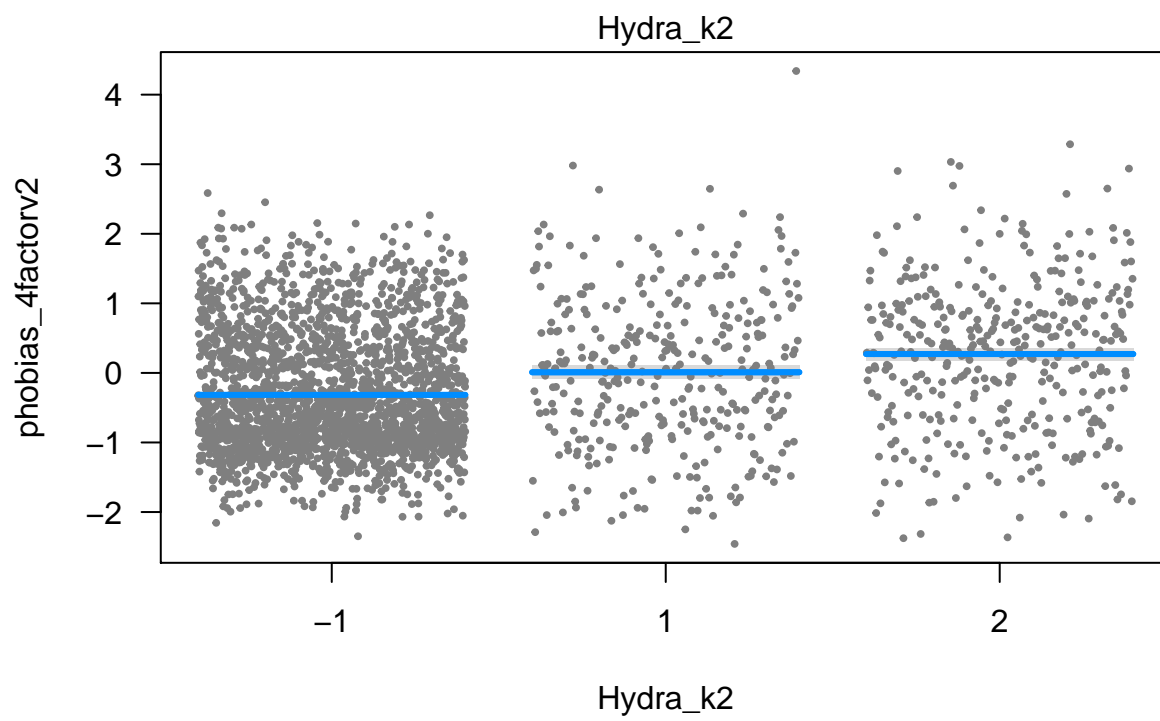
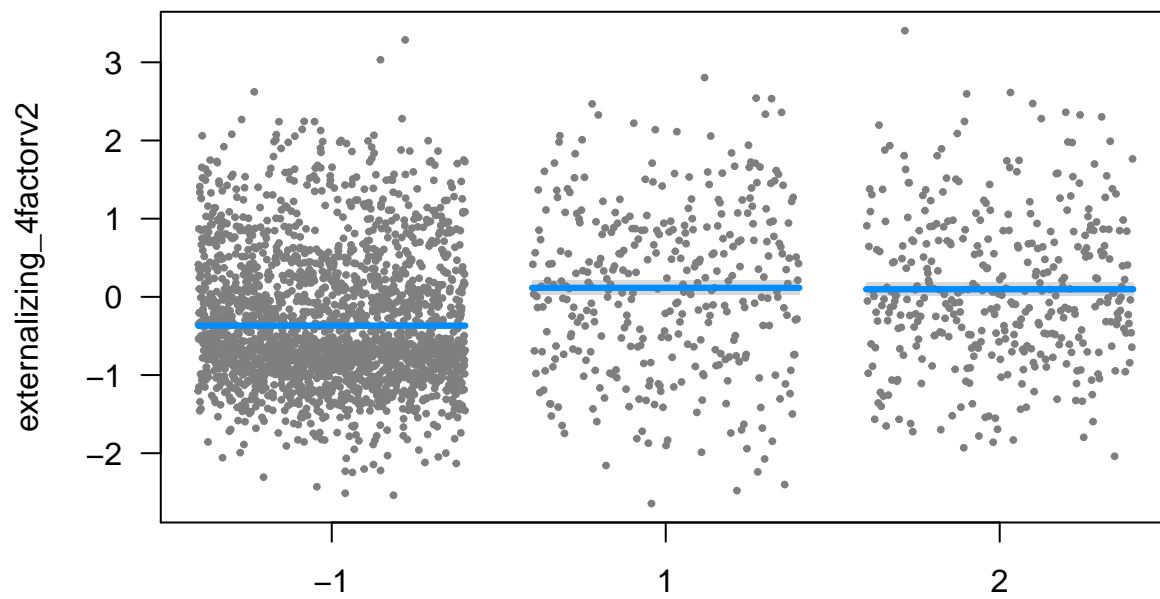
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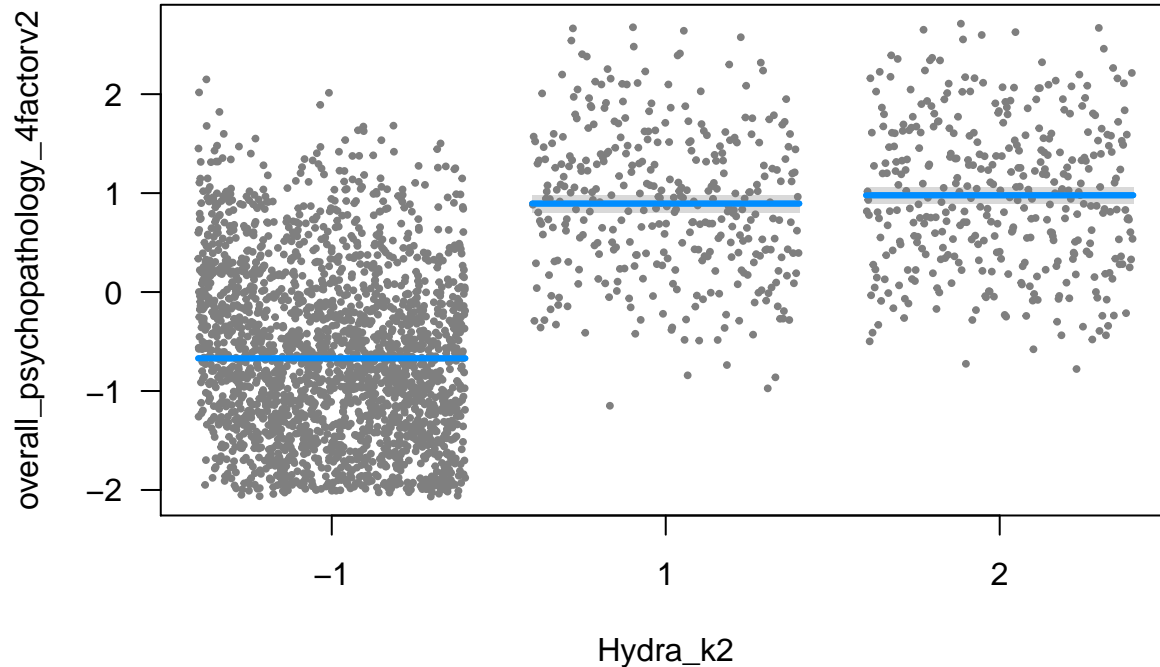
## 2986      2      -0.4027408  0.394823675  FALSE
## 2987      1      -0.4027408  0.249355933  FALSE
## 2988      1      -0.4027408  0.605501095  FALSE
## 2989     -1      -0.4027408  0.266912384   TRUE
## 2990      1      -0.4027408  0.329613997  FALSE
## 2991     -1      -0.4027408  0.860069644   TRUE
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## 2993     -1      -0.4027408 -1.513813427  FALSE
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## 2995     -1      -0.4027408  0.841259160   TRUE
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## 3005      1      -0.4027408  2.214424487   TRUE
## 3006     -1      -0.4027408 -1.701918266  FALSE
## 3007     -1      -0.4027408 -0.368881972   TRUE
## 3008     -1      -0.4027408 -0.972071490  FALSE
## 3009     -1      -0.4027408  0.047456739   TRUE
## 3010     -1      -0.4027408  0.026138190   TRUE
## 3011     -1      -0.4027408 -1.190273104  FALSE
## 3012     -1      -0.4027408 -0.189555359   TRUE
## 3013      1      -0.4027408  0.537783353  FALSE
## 3014     -1      -0.4027408 -1.877482783  FALSE
##
## $meta
## $meta$x
## [1] "Hydra_k2"
##
## $meta$y
## [1] "overall_psychopathology_4factorv2"
##
## $meta$hasInteraction
## [1] FALSE
##
## $meta$yName
## [1] "overall_psychopathology_4factorv2"
##
## $meta$trans
## function (x)
## {
##     structure(x, class = unique(c("AsIs", oldClass(x))))
## }
## <bytecode: 0x7f9cbf81bbb8>
## <environment: namespace:base>
##
## $meta$class
## [1] "lm"
##

```

```
##
## attr("class")
## [1] "visreg"
lapply(clinical_cog_score_cluster_stats_lm_AG_resid, function(x) {visreg(x)})
```







```
## $mood_4factorv2
## $fit
##   Hydra_k2 mood_4factorv2 visregFit visregLwr visregUpr
## 1      -1      -0.1240654 -0.2685618 -0.3043674 -0.2327562
## 2       1      -0.1240654  1.1152308  1.0229750  1.2074866
## 3       2      -0.1240654  0.9366844  0.8475912  1.0257777
##
## $res
##   Hydra_k2 mood_4factorv2 visregRes visregPos
## 1      -1      -0.1240654  0.409515203    TRUE
## 2      -1      -0.1240654  0.358555255    TRUE
## 3      -1      -0.1240654  1.467683543    TRUE
## 4      -1      -0.1240654 -0.839003532   FALSE
## 5      -1      -0.1240654 -0.121067789    TRUE
## 6      -1      -0.1240654  0.433496355    TRUE
## 7      -1      -0.1240654  0.436493999    TRUE
## 8      -1      -0.1240654 -0.653149603   FALSE
## 9       2      -0.1240654  0.357056433   FALSE
## 10     -1      -0.1240654  1.152930921    TRUE
## 11      1      -0.1240654  2.573814188    TRUE
## 12     -1      -0.1240654  0.820192434    TRUE
## 13      1      -0.1240654  0.394526983   FALSE
## 14     -1      -0.1240654 -1.101297384   FALSE
## 15     -1      -0.1240654 -1.012866886   FALSE
## 16     -1      -0.1240654 -1.288650136   FALSE
## 17     -1      -0.1240654  0.255136536    TRUE
## 18     -1      -0.1240654  1.088481574    TRUE
## 19     -1      -0.1240654 -1.481998175   FALSE
## 20     -1      -0.1240654  0.503940990    TRUE
## 21     -1      -0.1240654  1.403234197    TRUE
## 22     -1      -0.1240654  0.695790207    TRUE
## 23     -1      -0.1240654  0.547406828    TRUE
```

## 24	-1	-0.1240654	0.985062856	TRUE
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## 30	-1	-0.1240654	-0.877972905	FALSE
## 31	-1	-0.1240654	2.979994953	TRUE
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## 36	-1	-0.1240654	-1.520967547	FALSE
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## 39	-1	-0.1240654	0.724267826	TRUE
## 40	-1	-0.1240654	-0.653149603	FALSE
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## 43	-1	-0.1240654	-0.599192010	FALSE
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##
## $meta
## $meta$x
## [1] "Hydra_k2"
##
## $meta$y
## [1] "mood_4factorv2"
##
## $meta$hasInteraction
## [1] FALSE
##
## $meta$yName
## [1] "mood_4factorv2"
##
## $meta$trans
## function (x)
## {
##     structure(x, class = unique(c("AsIs", oldClass(x))))
## }
## <bytecode: 0x7f9cbf81bbb8>
## <environment: namespace:base>
##
## $meta$class
## [1] "lm"
##
##
## attr(,"class")
## [1] "visreg"
##
## $psychosis_4factorv2
## $fit
## Hydra_k2 psychosis_4factorv2 visregFit visregLwr visregUpr
## 1      -1      -0.1829434 -0.06954718 -0.10785088 -0.03124347

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## 2      1      -0.1829434 -0.08074085 -0.17943314  0.01795143
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##
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## 1869	-1	-0.1829434	-0.264367887	FALSE
## 1870	-1	-0.1829434	-1.630710966	FALSE
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## 1872	-1	-0.1829434	0.849757792	TRUE
## 1873	1	-0.1829434	-0.814479853	FALSE
## 1874	-1	-0.1829434	-1.430128624	FALSE
## 1875	-1	-0.1829434	-0.572192273	FALSE
## 1876	-1	-0.1829434	-0.308059090	FALSE
## 1877	1	-0.1829434	-0.302101199	FALSE
## 1878	1	-0.1829434	-1.755826684	FALSE
## 1879	-1	-0.1829434	1.179427779	TRUE
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## 1883	-1	-0.1829434	1.115876938	TRUE
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## 1885	2	-0.1829434	0.613428102	TRUE

## 1886	-1	-0.1829434	-0.071729401	FALSE
## 1887	2	-0.1829434	-1.892858184	FALSE
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## 1914	1	-0.1829434	-1.412254950	FALSE
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## 1918	-1	-0.1829434	0.690880690	TRUE
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## 1938	-1	-0.1829434	1.034452423	TRUE
## 1939	-1	-0.1829434	-1.038893760	FALSE

## 1940	-1	-0.1829434	-1.674402169	FALSE
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## \$meta				
## \$meta\$x				
## [1] "Hydra_k2"				
##				

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## $meta$y
## [1] "psychosis_4factorv2"
##
## $meta$hasInteraction
## [1] FALSE
##
## $meta$yName
## [1] "psychosis_4factorv2"
##
## $meta$trans
## function (x)
## {
##     structure(x, class = unique(c("AsIs", oldClass(x))))
## }
## <bytecode: 0x7f9cbf81bbb8>
## <environment: namespace:base>
##
## $meta$class
## [1] "lm"
##
## attr("class")
## [1] "visreg"
##
## $externalizing_4factorv2
## $fit
##   Hydra_k2 externalizing_4factorv2 visregFit visregLwr visregUpr
## 1      -1      -0.4826753 -0.36829271 -0.403512866 -0.3330726
## 2       1      -0.4826753  0.11541436  0.024667063  0.2061617
## 3       2      -0.4826753  0.09708047  0.009444015  0.1847169
##
## $res
##   Hydra_k2 externalizing_4factorv2 visregRes visregPos
## 1      -1      -0.4826753 -1.202891317 FALSE
## 2      -1      -0.4826753  0.412687491 TRUE
## 3      -1      -0.4826753 -0.346785537 TRUE
## 4      -1      -0.4826753 -0.534011493 FALSE
## 5      -1      -0.4826753  0.354556852 TRUE
## 6      -1      -0.4826753  0.870183172 TRUE
## 7      -1      -0.4826753 -1.152310111 FALSE
## 8      -1      -0.4826753 -0.542315870 FALSE
## 9       2      -0.4826753  0.909440227 TRUE
## 10     -1      -0.4826753 -0.207875958 TRUE
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## 19     -1      -0.4826753 -1.341800896 FALSE
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## $meta$x
## [1] "Hydra_k2"
##
## $meta$y
## [1] "externalizing_4factorv2"
##
## $meta$hasInteraction
## [1] FALSE
##
## $meta$yName
## [1] "externalizing_4factorv2"
##
## $meta$trans
## function (x)
## {
##     structure(x, class = unique(c("AsIs", oldClass(x))))
## }
## <bytecode: 0x7f9cbf81bbb8>
## <environment: namespace:base>
##
## $meta$class
## [1] "lm"
##
##
## attr(,"class")
## [1] "visreg"
##
## $phobias_4factorv2
## $fit

```

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## 2 1 -0.4007962 0.009447565 -0.08730509 0.1062002
## 3 2 -0.4007962 0.271223613 0.17778767 0.3646596
##
## $res
## Hydra_k2 phobias_4factorv2 visregRes visregPos
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## 2 -1 -0.4007962 -0.320738334 FALSE
## 3 -1 -0.4007962 1.099418669 TRUE
## 4 -1 -0.4007962 1.470121416 TRUE
## 5 -1 -0.4007962 0.561638627 TRUE
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## 7 -1 -0.4007962 -0.858518376 FALSE
## 8 -1 -0.4007962 0.768744857 TRUE
## 9 2 -0.4007962 0.290138024 TRUE
## 10 -1 -0.4007962 -0.369469212 FALSE
## 11 1 -0.4007962 -1.551192993 FALSE
## 12 -1 -0.4007962 -0.832412549 FALSE
## 13 1 -0.4007962 1.473602193 TRUE
## 14 -1 -0.4007962 -1.418923468 FALSE
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## 20 -1 -0.4007962 0.011675866 TRUE
## 21 -1 -0.4007962 0.413705606 TRUE
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## 47 2 -0.4007962 0.041262470 FALSE

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## \$meta				
## \$meta\$x				

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## [1] "Hydra_k2"
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## $meta$y
## [1] "phobias_4factorv2"
##
## $meta$hasInteraction
## [1] FALSE
##
## $meta$yName
## [1] "phobias_4factorv2"
##
## $meta$trans
## function (x)
## {
##     structure(x, class = unique(c("AsIs", oldClass(x))))
## }
## <bytecode: 0x7f9cbf81bbb8>
## <environment: namespace:base>
##
## $meta$class
## [1] "lm"
##
## attr("class")
## [1] "visreg"
##
## $overall_psychopathology_4factorv2
## $fit
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## 2       1                -0.4027408  0.8943018  0.8074635
## 3       2                -0.4027408  0.9781481  0.8942867
##   visregUpr
## 1 -0.6358311
## 2  0.9811401
## 3  1.0620095
##
## $res
##   Hydra_k2 overall_psychopathology_4factorv2 visregRes visregPos
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## 2933	1	-0.4027408	0.088839803	FALSE
## 2934	-1	-0.4027408	-2.009156170	FALSE
## 2935	-1	-0.4027408	-0.488015037	TRUE
## 2936	-1	-0.4027408	-1.856164235	FALSE
## 2937	-1	-0.4027408	-1.224131975	FALSE
## 2938	-1	-0.4027408	-0.283607779	TRUE
## 2939	-1	-0.4027408	-0.646023102	TRUE
## 2940	2	-0.4027408	1.528468839	TRUE
## 2941	-1	-0.4027408	0.488876095	TRUE
## 2942	-1	-0.4027408	-0.094248907	TRUE
## 2943	2	-0.4027408	0.281960771	FALSE
## 2944	-1	-0.4027408	-0.277337617	TRUE
## 2945	-1	-0.4027408	-1.113777136	FALSE
## 2946	-1	-0.4027408	-0.302418262	TRUE
## 2947	-1	-0.4027408	0.472573675	TRUE
## 2948	-1	-0.4027408	-0.158204552	TRUE
## 2949	-1	-0.4027408	-1.807256976	FALSE
## 2950	1	-0.4027408	1.209944645	TRUE
## 2951	2	-0.4027408	1.487085775	TRUE
## 2952	-1	-0.4027408	-0.407756972	TRUE
## 2953	-1	-0.4027408	-0.941974716	FALSE
## 2954	-1	-0.4027408	-0.979595684	FALSE
## 2955	2	-0.4027408	2.110339809	TRUE
## 2956	-1	-0.4027408	0.986726902	TRUE
## 2957	-1	-0.4027408	-1.252974717	FALSE
## 2958	-1	-0.4027408	-1.739539234	FALSE
## 2959	-1	-0.4027408	0.434952707	TRUE
## 2960	-1	-0.4027408	0.053726900	TRUE
## 2961	1	-0.4027408	1.441940613	TRUE
## 2962	-1	-0.4027408	-0.251002940	TRUE
## 2963	-1	-0.4027408	-1.928898106	FALSE
## 2964	2	-0.4027408	1.836960776	TRUE
## 2965	-1	-0.4027408	-0.773934393	FALSE
## 2966	-1	-0.4027408	-0.328752940	TRUE
## 2967	-1	-0.4027408	-0.629720683	TRUE
## 2968	-1	-0.4027408	0.388553514	TRUE
## 2969	-1	-0.4027408	-1.589055363	FALSE
## 2970	-1	-0.4027408	-0.751361812	FALSE
## 2971	2	-0.4027408	0.829972870	FALSE
## 2972	-1	-0.4027408	-0.376406166	TRUE
## 2973	2	-0.4027408	-0.213381972	FALSE
## 2974	-1	-0.4027408	-1.092458587	FALSE
## 2975	2	-0.4027408	1.591170453	TRUE
## 2976	-1	-0.4027408	1.148497064	TRUE
## 2977	1	-0.4027408	0.190416416	FALSE
## 2978	1	-0.4027408	0.620549482	FALSE
## 2979	-1	-0.4027408	-0.609656167	TRUE
## 2980	2	-0.4027408	0.735920450	FALSE
## 2981	2	-0.4027408	0.748460773	FALSE
## 2982	1	-0.4027408	0.962900289	TRUE
## 2983	2	-0.4027408	0.732158353	FALSE
## 2984	-1	-0.4027408	-0.672357780	FALSE
## 2985	-1	-0.4027408	0.164081739	TRUE

```

## 2986      1      -0.4027408  0.394823675  FALSE
## 2987      2      -0.4027408  0.249355933  FALSE
## 2988      2      -0.4027408  0.605501095  FALSE
## 2989     -1      -0.4027408  0.266912384   TRUE
## 2990      2      -0.4027408  0.329613997  FALSE
## 2991     -1      -0.4027408  0.860069644   TRUE
## 2992     -1      -0.4027408 -0.598369876   TRUE
## 2993     -1      -0.4027408 -1.513813427  FALSE
## 2994     -1      -0.4027408 -1.357059394  FALSE
## 2995     -1      -0.4027408  0.841259160   TRUE
## 2996     -1      -0.4027408  0.606755127   TRUE
## 2997     -1      -0.4027408 -1.056091652  FALSE
## 2998     -1      -0.4027408 -1.841115847  FALSE
## 2999     -1      -0.4027408 -0.140648101   TRUE
## 3000     -1      -0.4027408 -0.019006971   TRUE
## 3001     -1      -0.4027408  0.224275287   TRUE
## 3002     -1      -0.4027408  0.149033352   TRUE
## 3003     -1      -0.4027408 -0.812809393  FALSE
## 3004     -1      -0.4027408 -0.225922294   TRUE
## 3005      2      -0.4027408  2.214424487   TRUE
## 3006     -1      -0.4027408 -1.701918266  FALSE
## 3007     -1      -0.4027408 -0.368881972   TRUE
## 3008     -1      -0.4027408 -0.972071490  FALSE
## 3009     -1      -0.4027408  0.047456739   TRUE
## 3010     -1      -0.4027408  0.026138190   TRUE
## 3011     -1      -0.4027408 -1.190273104  FALSE
## 3012     -1      -0.4027408 -0.189555359   TRUE
## 3013      2      -0.4027408  0.537783353  FALSE
## 3014     -1      -0.4027408 -1.877482783  FALSE
##
## $meta
## $meta$x
## [1] "Hydra_k2"
##
## $meta$y
## [1] "overall_psychopathology_4factorv2"
##
## $meta$hasInteraction
## [1] FALSE
##
## $meta$yName
## [1] "overall_psychopathology_4factorv2"
##
## $meta$trans
## function (x)
## {
##     structure(x, class = unique(c("AsIs", oldClass(x))))
## }
## <bytecode: 0x7f9cbf81bbb8>
## <environment: namespace:base>
##
## $meta$class
## [1] "lm"
##

```



```

##
## attr("class")
## [1] "visreg"

#WILL HAVE TO DO THIS FOR MALES AND FEMALES#

#####Chi-square for males/females and race#####
#####By males, and by caucasians #####

#Chi squared sex - significance p = 0.12
#if just want to look at clusters, not TD, look at commented line below, otherwise keep as is
###chisq_matched_sex <- chisq.test(subset_with_clusters_AG_matched$sex, (subset_with_clusters_AG_matched$Hydra_k2))
chisq_matched_sex <- chisq.test(subset_with_clusters_AG_matched$sex, subset_with_clusters_AG_matched$Hydra_k2)
chisq_matched_sex_pvalue <- chisq_matched_sex$p.value
total_people_Hydra_k2 <- c(length(subset_with_clusters_AG_matched$sex[which(subset_with_clusters_AG_matched$sex == "M")],
length(subset_with_clusters_AG_matched$sex[which(subset_with_clusters_AG_matched$sex == "F")],
length(subset_with_clusters_AG_matched$sex[which(subset_with_clusters_AG_matched$sex == "C")],
# length(subset_with_clusters_AG_matched$sex[which(subset_with_clusters_AG_matched$sex == "M")])

num_men_all_clusters <- c(length(subset_with_clusters_AG_matched$sex[which(subset_with_clusters_AG_matched$sex == "M")],
length(subset_with_clusters_AG_matched$sex[which(subset_with_clusters_AG_matched$sex == "F")],
length(subset_with_clusters_AG_matched$sex[which(subset_with_clusters_AG_matched$sex == "C")],
# length(subset_with_clusters_AG_matched$sex[which(subset_with_clusters_AG_matched$sex == "M")])

percent_men_all_clusters <- (num_men_all_clusters/total_people_Hydra_k2) * 100

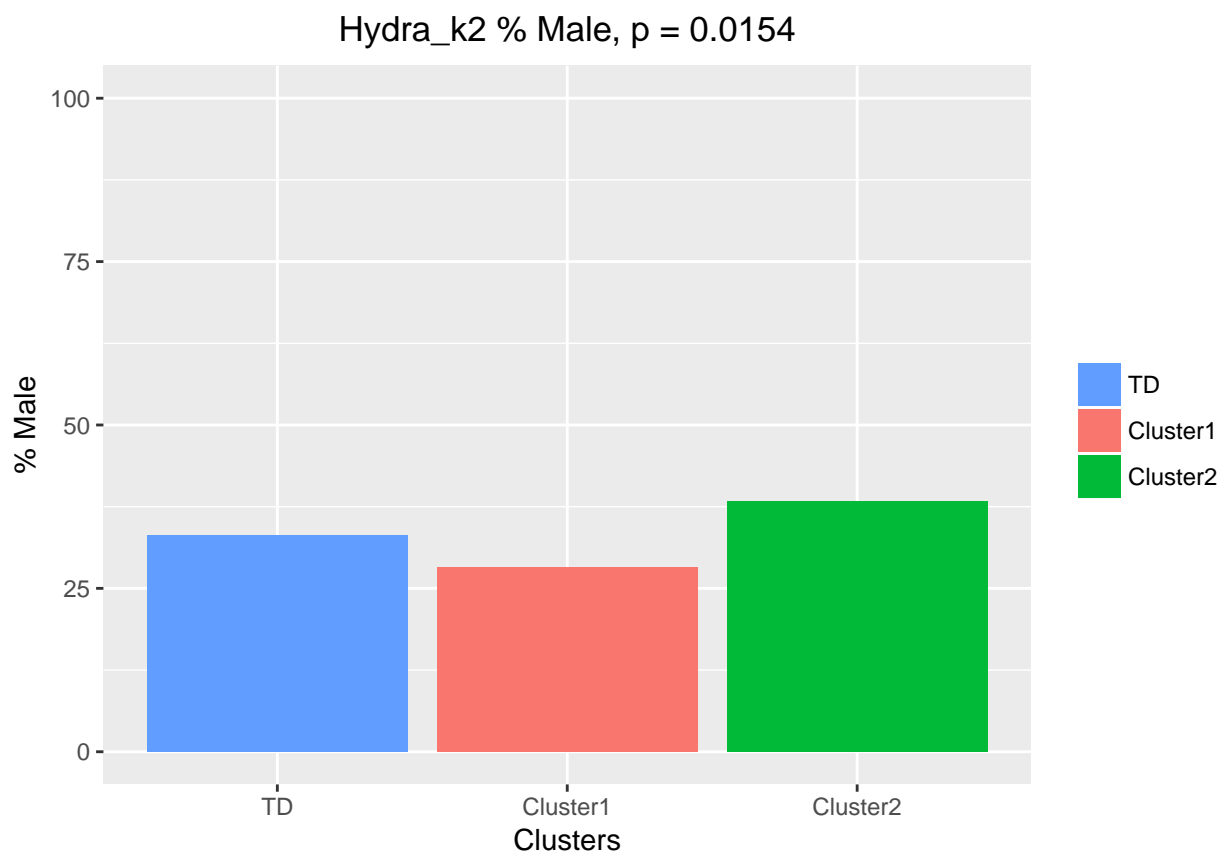
#Chi square race - p-value = 4.854e-13
chisq_matched_race <- chisq.test(subset_with_clusters_AG_matched$race_binarized, subset_with_clusters_AG_matched$Hydra_k2)
chisq_matched_race_pvalue <- chisq_matched_race$p.value
num_caucasian_all_clusters <- c(length(subset_with_clusters_AG_matched$race_binarized[which(subset_with_clusters_AG_matched$race_binarized == "C")],
length(subset_with_clusters_AG_matched$race_binarized[which(subset_with_clusters_AG_matched$race_binarized == "M")],
length(subset_with_clusters_AG_matched$race_binarized[which(subset_with_clusters_AG_matched$race_binarized == "F")],
# length(subset_with_clusters_AG_matched$race_binarized[which(subset_with_clusters_AG_matched$race_binarized == "C")])

percent_caucasian_all_clusters <- (num_caucasian_all_clusters/total_people_Hydra_k2)*100

p_values <- c("", chisq_matched_sex_pvalue, "", chisq_matched_race_pvalue)
dat_sex_race <- data.frame(cl = c("TD", "Cluster1", "Cluster2", "Significance"),
num_males = c(num_men_all_clusters, "----"),
percent_males = round(c(percent_men_all_clusters, chisq_matched_sex_pvalue), 2),
num_caucasians = c(num_caucasian_all_clusters, "----"),
percent_caucasian = round(c(percent_caucasian_all_clusters, chisq_matched_race_pvalue), 2))
dat_sex_race_no_significance <- data.frame(cl = c("TD", "Cluster1", "Cluster2"),
num_males = (num_men_all_clusters),
percent_males = percent_men_all_clusters,
num_caucasians = num_caucasian_all_clusters,
percent_caucasian = percent_caucasian_all_clusters)

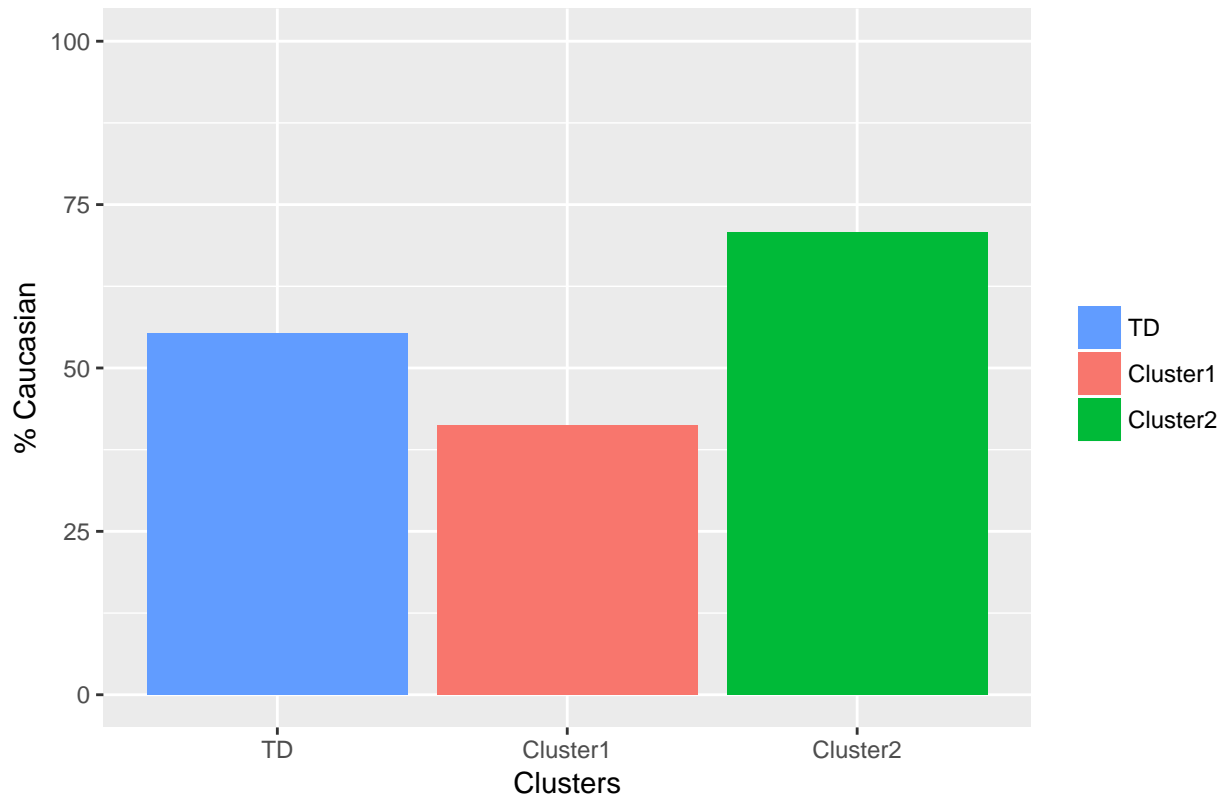
ggplot(dat_sex_race_no_significance, aes(x = cl, y = percent_males, fill=cl)) + geom_col() +
scale_x_discrete(limits=c("TD", "Cluster1", "Cluster2")) + ylim(0, 100) + xlab("Clusters") + ylab("% Male")
ggtitle("Hydra_k2 % Male, p = 0.0154") + scale_fill_discrete(breaks=c("TD", "Cluster1", "Cluster2")) +
guides(fill=guide_legend(title=NULL))

```



```
ggplot(dat_sex_race_no_significance, aes(x = cl, y = percent_caucasian, fill=cl)) + geom_col() +
  scale_x_discrete(limits=c("TD", "Cluster1", "Cluster2")) + ylim(0, 100) + xlab("Clusters") + ylab("% Male") +
  ggtitle("Hydra_k2 % Caucasian, p = 2.187e-14") + scale_fill_discrete(breaks=c("TD", "Cluster1", "Cluster2")) +
  guides(fill=guide_legend(title=NULL))
```

Hydra_k2 % Caucasian, p = 2.187e-14



```
#####
##### Bar Graphs #####
#####

dat <- data.frame(cluster=c(subset_with_clusters_AG_matched$Hydra_k2), age=c(subset_with_clusters_AG_ma

#dat_age_sd_sem is the data frame that will be cluster(vertical), columns (age, medu), last rows are st
dat_age_sd_sem <- data.frame(cl = c("TD", "Cluster1", "Cluster2"),
                             age = c(mean(subset_with_clusters_AG_matched$age_in_years[which(subset_witl
                             mean(subset_with_clusters_AG_matched$age_in_years[which(subset_witl
                             mean(subset_with_clusters_AG_matched$age_in_years[which(subset_witl
                             age_sd = c(sd(subset_with_clusters_AG_matched$age_in_years[which(subset_wi
                             sd(subset_with_clusters_AG_matched$age_in_years[which(subset_wi
                             sd(subset_with_clusters_AG_matched$age_in_years[which(subset_wi

dat_age_sd_sem$sem <- dat_age_sd_sem$age_sd/sqrt(nrow(dat))
dat_medu_sd_sem <- data.frame(cl = c("TD", "Cluster1", "Cluster2"),
                              medu = c(mean(subset_with_clusters_AG_matched$medu1[which(subset_with_clu
                              mean(subset_with_clusters_AG_matched$medu1[which(subset_with_clu
                              mean(subset_with_clusters_AG_matched$medu1[which(subset_with_clu
                              age_sd = c(sd(subset_with_clusters_AG_matched$medu1[which(subset_with_clu
                              sd(subset_with_clusters_AG_matched$medu1[which(subset_with_clu
                              sd(subset_with_clusters_AG_matched$medu1[which(subset_with_clu

dat_medu_sd_sem$sem <- dat_medu_sd_sem$age_sd/sqrt(nrow(dat))

dat_cont <- data.frame(cluster=c(subset_with_clusters_AG_matched$Hydra_k2), age=c(subset_with_clusters_
```

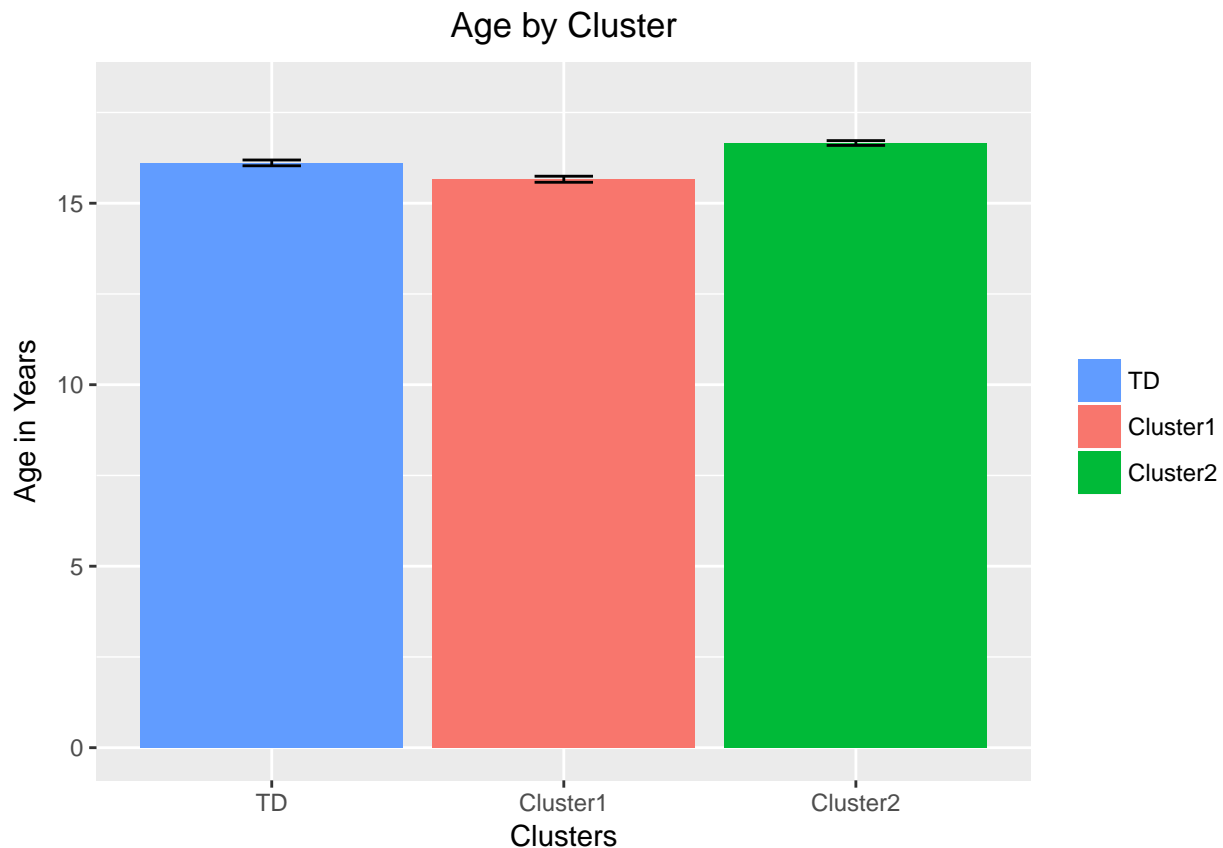
```

dat_cat <- data.frame(cluster=c(subset_with_clusters_AG_matched$Hydra_k2), race=c(subset_with_clusters_
dat.m <- melt(dat, id.vars='cluster')
dat_cont.m <- melt(dat_cont, id.vars='cluster')
dat_cat.m <- melt(dat_cat, id.vars='cluster')

#ggplot(dat.m, aes(fill=cluster, x=cluster, y=value))+ geom_bar(stat="identity") + facet_grid(.~variabl
# labs(x='Clusters_matched',y='') + scale_x_discrete(limits=c("TD", "Cluster1", "Cluster2", "Cluster3"))

ggplot(dat_age_sd_sem, aes(x = cl, y = age, fill = cl)) + geom_col() +
  geom_errorbar(aes(ymin=age-sem, ymax=age+sem),width=.2,position=position_dodge(.9)) +
  scale_x_discrete(limits=c("TD", "Cluster1", "Cluster2")) + ylim(0, 18) + xlab("Clusters") + ylab("Age
  ggtitle("Age by Cluster") + scale_fill_discrete(breaks=c("TD", "Cluster1", "Cluster2")) +
  guides(fill=guide_legend(title=NULL))

```

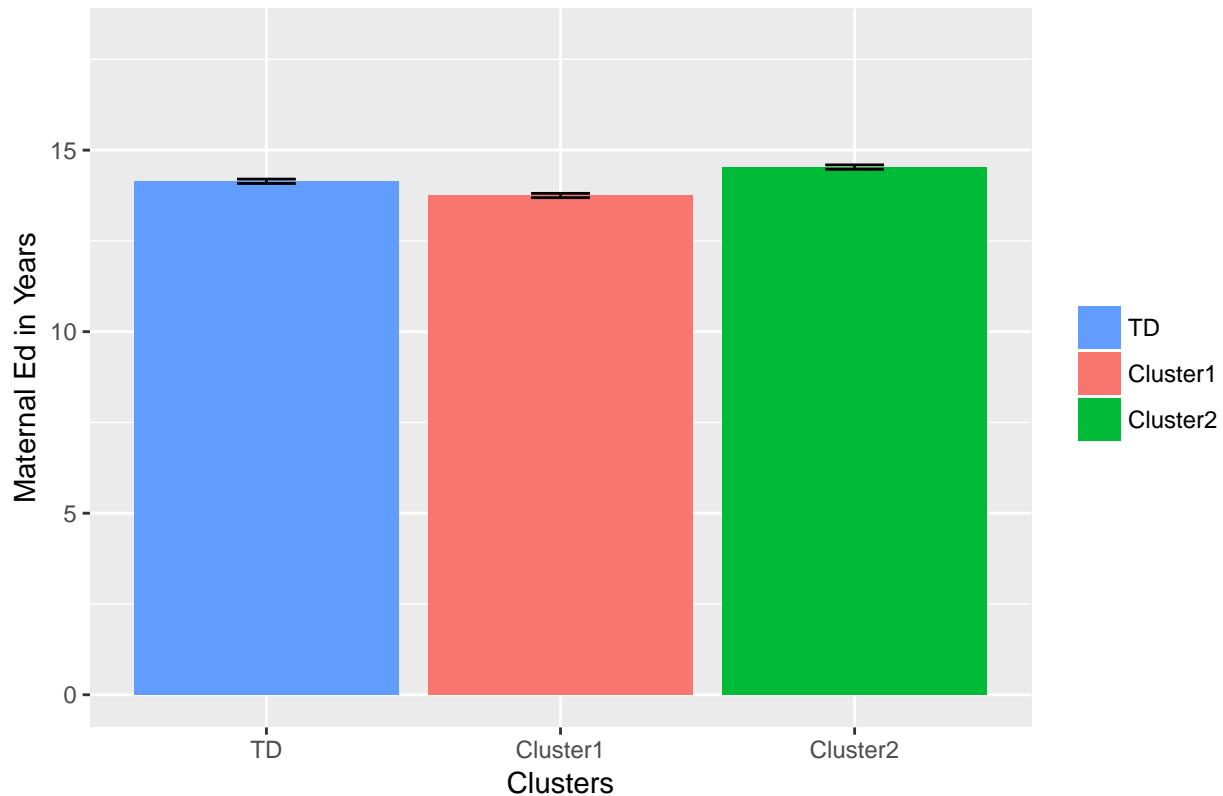


```

ggplot(dat_medu_sd_sem, aes(x = cl, y = medu, fill = cl)) + geom_col() +
  geom_errorbar(aes(ymin=medu-sem, ymax=medu+sem),width=.2,position=position_dodge(.9)) +
  scale_x_discrete(limits=c("TD", "Cluster1", "Cluster2")) + ylim(0, 18) + xlab("Clusters") + ylab("Mat
  ggtitle("Maternal Edu by Cluster") + scale_fill_discrete(breaks=c("TD", "Cluster1", "Cluster2")) +
  guides(fill=guide_legend(title=NULL))

```

Maternal Edu by Cluster



```
#ggplot(dat_cont.m, aes(fill=cluster, x=cluster, y=value)) + geom_bar(stat='identity') +
# facet_grid(.~variable) + labs(x='Clusters_matched',y='') +
# scale_x_discrete(limits=c("TD", "Cluster1", "Cluster2"))
```

```
#ggplot(dat_cat.m, aes(fill=cluster, x=cluster, y=value)) + geom_bar(stat='identity') +
# facet_grid(.~variable) + labs(x='Clusters_matched',y='') +
# scale_x_discrete(limits=c("TD", "Cluster1", "Cluster2", "Cluster3"))
```

FDR correction

```
#####
## Extracting anovas with significant p values ###
#####

#Looking at Hydra_k2, but can redo with nested list
#Look at model summaries
models_anova <- lapply(clinical_cog_score_cluster_stats_anova_AG_matched, summary)

#Pull p-values
p_anova <- sapply(clinical_cog_score_cluster_stats_anova_AG_matched, function(v) v$`Pr(>F)`[1]) #$$coef[

#Convert to data frame
p_anova <- as.data.frame(p_anova)

#Print original p-values to three decimal places
p_round_anova <- round(p_anova,3)

#FDR correct p-values
```

```

pfdr_anova <- p.adjust(p_anova[,1],method="fdr")

#Convert to data frame
pfdr_anova <- as.data.frame(pfdr_anova)
row.names(pfdr_anova) <- clinical_measure_names

#To print fdr-corrected p-values to three decimal places
pfdr_round_anova <- round(pfdr_anova,3)

#List the NMF components that survive FDR correction
clinical_fdr_anova <- row.names(pfdr_anova)[pfdr_anova<0.05]

#make a data frame with names and fdr values (rounded to 3 decimals)
clinical_names_and_fdr_values_anova <- data.frame(cbind(clinical_fdr_anova, round(pfdr_anova[pfdr_anova
names(clinical_names_and_fdr_values_anova) <- c("clinical_measure", "p_FDR_corr")

#write the results of the mass univariate stats to files
write.csv(clinical_names_and_fdr_values_anova, file = "/Users/eballer/BBL/from_thead/ballerDepHeterogen
print(clinical_names_and_fdr_values_anova)

##              clinical_measure p_FDR_corr
## 1              mood_4factorv2          0
## 2             psychosis_4factorv2      0.02
## 3          externalizing_4factorv2          0
## 4              phobias_4factorv2          0
## 5 overall_psychopathology_4factorv2          0

Demographics for matched, unmatched and unmatched_resid group by cluster
#####
##### Demographics #####
#####

#####Matched group all clusters #####
#subset demographics
listVars <- c("Race", "Sex", "Maternal Ed", "Age", "Depression", "Cluster") #Race 1 = caucasian, Matern
demo_Hydra_k2_AG_matched <- data.frame(subset_with_clusters_AG_matched$race_binarized, subset_with_clus
names(demo_Hydra_k2_AG_matched) <- c(listVars)

#Change categorical values to have names
demo_Hydra_k2_AG_matched$Depression <- ifelse(demo_Hydra_k2_AG_matched$Depression == 1, "Depressed", "N
demo_Hydra_k2_AG_matched$Race <- ifelse(demo_Hydra_k2_AG_matched$Race == 1, "Caucasian", "Non-caucasian
demo_Hydra_k2_AG_matched$Sex <- ifelse(demo_Hydra_k2_AG_matched$Sex == 1, "Male", "Female")

#Define Categorical Variables
cat_variables <- c("Race", "Depression", "Sex", "Cluster")
title <- c("Hydra_k2 demographics")

#create demographics table
demo_Hydra_k2_AG_matched_table <- CreateTableOne(vars = listVars, data = demo_Hydra_k2_AG_matched, fact
print(demo_Hydra_k2_AG_matched_table, showAllLevels = TRUE)

```

```
## Stratified by Cluster
## level -1 1
## n 711 376
## Race (%) Caucasian 393 ( 55.3) 155 ( 41.2)
## Non-caucasian 318 ( 44.7) 221 ( 58.8)
## Sex (%) Female 476 ( 66.9) 270 ( 71.8)
## Male 235 ( 33.1) 106 ( 28.2)
## Maternal Ed (mean (sd)) 14.14 (2.26) 13.75 (2.23)
## Age (mean (sd)) 16.11 (3.00) 15.66 (3.14)
## Depression (%) Depressed 0 ( 0.0) 376 (100.0)
## Non-depressed 711 (100.0) 0 ( 0.0)
## Cluster (%) -1 711 (100.0) 0 ( 0.0)
## 1 0 ( 0.0) 376 (100.0)
## 2 0 ( 0.0) 0 ( 0.0)
```

```
## Stratified by Cluster
## 2 p test
## n 336
## Race (%) 238 ( 70.8) <0.001
## 98 ( 29.2)
## Sex (%) 207 ( 61.6) 0.015
## 129 ( 38.4)
## Maternal Ed (mean (sd)) 14.53 (2.29) <0.001
## Age (mean (sd)) 16.66 (2.49) <0.001
## Depression (%) 336 (100.0) <0.001
## 0 ( 0.0)
## Cluster (%) 0 ( 0.0) <0.001
## 0 ( 0.0)
## 336 (100.0)
```

```
#####Unmatched group #####
```

```
#subset demographics
```

```
listVars <- c("Race", "Sex", "Maternal Ed", "Age", "Depression", "Cluster") #Race 1 = caucasian, Maternal Ed 1 = depressed
demo_Hydra_k2_AG_unmatched <- data.frame(subset_with_clusters_AG_unmatched$race_binarized, subset_with_clusters_AG_unmatched$maternal_ed_binarized)
names(demo_Hydra_k2_AG_unmatched) <- c(listVars)
```

```
#Change categorical values to have names
```

```
demo_Hydra_k2_AG_unmatched$Depression <- ifelse(demo_Hydra_k2_AG_unmatched$Depression == 1, "Depressed", "Non-depressed")
demo_Hydra_k2_AG_unmatched$Race <- ifelse(demo_Hydra_k2_AG_unmatched$Race == 1, "Caucasian", "Non-caucasian")
demo_Hydra_k2_AG_unmatched$Sex <- ifelse(demo_Hydra_k2_AG_unmatched$Sex == 1, "Male", "Female")
```

```
#Define Categorical Variables
```

```
cat_variables <- c("Race", "Depression", "Sex", "Cluster")
```

```
title <- c("Hydra_k2 demographics")
```

```
#create demographics table
```

```
demo_Hydra_k2_AG_unmatched_table <- CreateTableOne(vars = listVars, data = demo_Hydra_k2_AG_unmatched, method = "glm")
print(demo_Hydra_k2_AG_unmatched_table, showAllLevels = TRUE)
```

```
## Stratified by Cluster
## level -1 1
## n 2297 376
## Race (%) Caucasian 1469 ( 64.0) 177 ( 47.1)
## Non-caucasian 828 ( 36.0) 199 ( 52.9)
## Sex (%) Female 1103 ( 48.0) 264 ( 70.2)
```

```
##           Male           1194 ( 52.0)      112 ( 29.8)
## Maternal Ed (mean (sd))           14.93 (2.45)      13.89 (2.24)
## Age (mean (sd))           13.83 (3.72)      16.27 (2.84)
## Depression (%)           Depressed           0 ( 0.0)      376 (100.0)
##           Non-depressed      2297 (100.0)           0 ( 0.0)
## Cluster (%)           -1           2297 (100.0)           0 ( 0.0)
##           1           0 ( 0.0)      376 (100.0)
##           2           0 ( 0.0)           0 ( 0.0)
##           Stratified by Cluster
##           2           p           test
## n           341
## Race (%)           218 ( 63.9) <0.001
##           123 ( 36.1)
## Sex (%)           217 ( 63.6) <0.001
##           124 ( 36.4)
## Maternal Ed (mean (sd)) 14.37 (2.31) <0.001
## Age (mean (sd))           15.96 (2.95) <0.001
## Depression (%)           341 (100.0) <0.001
##           0 ( 0.0)
## Cluster (%)           0 ( 0.0) <0.001
##           0 ( 0.0)
##           341 (100.0)
```

```
#####Ununmatched residuals group #####
```

```
#subset demographics
```

```
listVars <- c("Race", "Sex", "Maternal Ed", "Age", "Depression", "Cluster") #Race 1 = caucasian, Maternal Ed 1 = depressed
demo_Hydra_k2_AG_resid <- data.frame(subset_with_clusters_AG_resid$race_binarized, subset_with_clusters_AG_resid$maternal_ed_binarized)
names(demo_Hydra_k2_AG_resid) <- c(listVars)
```

```
#Change categorical values to have names
```

```
demo_Hydra_k2_AG_resid$Depression <- ifelse(demo_Hydra_k2_AG_resid$Depression == 1, "Depressed", "Non-depressed")
demo_Hydra_k2_AG_resid$Race <- ifelse(demo_Hydra_k2_AG_resid$Race == 1, "Caucasian", "Non-caucasian")
demo_Hydra_k2_AG_resid$Sex <- ifelse(demo_Hydra_k2_AG_resid$Sex == 1, "Male", "Female")
```

```
#make variable list
```

```
#table_titles <- c("Cluster 1", "Cluster 2")
```

```
#table_titles <- c("Cluster 1", "Depressed", "P-value")
```

```
#Define Categorical Variables
```

```
cat_variables <- c("Race", "Depression", "Sex", "Cluster")
```

```
title <- c("Hydra_k2 demographics")
```

```
#create demographics table
```

```
demo_Hydra_k2_AG_resid_table <- CreateTableOne(vars = listVars, data = demo_Hydra_k2_AG_resid, factorVars = cat_variables)
print(demo_Hydra_k2_AG_resid_table, showAllLevels = TRUE)
```

```
##           Stratified by Cluster
##           level           -1           1
## n           2297           346
## Race (%)           Caucasian      1469 ( 64.0)      211 ( 61.0)
##           Non-caucasian      828 ( 36.0)      135 ( 39.0)
## Sex (%)           Female      1103 ( 48.0)      219 ( 63.3)
##           Male      1194 ( 52.0)      127 ( 36.7)
## Maternal Ed (mean (sd))      14.93 (2.45)      14.34 (2.31)
```


##	Age (mean (sd))		13.83 (3.72)	16.02 (3.03)
##	Depression (%)	Depressed	0 (0.0)	346 (100.0)
##		Non-depressed	2297 (100.0)	0 (0.0)
##	Cluster (%)	-1	2297 (100.0)	0 (0.0)
##		1	0 (0.0)	346 (100.0)
##		2	0 (0.0)	0 (0.0)
##		Stratified by Cluster		
##		2	p	test
##	n	371		
##	Race (%)	184 (49.6)	<0.001	
##		187 (50.4)		
##	Sex (%)	262 (70.6)	<0.001	
##		109 (29.4)		
##	Maternal Ed (mean (sd))	13.92 (2.25)	<0.001	
##	Age (mean (sd))	16.22 (2.77)	<0.001	
##	Depression (%)	371 (100.0)	<0.001	
##		0 (0.0)		
##	Cluster (%)	0 (0.0)	<0.001	
##		0 (0.0)		
##		371 (100.0)		