Causal Inference: Policy Evaluation — Assignment 1

Your Name

2025-03-27

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setwd("G:/My Drive/SwissTPH/Spring2025ClassesBasel/CausalInferencePolicyEvaluation/04\_Small\_Assignments/Assignment\_1/")  
# Loading given dataset  
load("Assignment\_1.RData")

#glimpse(raw.data)

## Question 1

Creating a dummy variable indicating if someone is under 40 years old

# Getting an idea of current variables  
raw.data[c("agegr\_2", "agegr\_3", "agegr\_4")] %>% head()

## agegr\_2 agegr\_3 agegr\_4  
## 1 1 0 0  
## 2 0 1 0  
## 3 1 0 0  
## 4 0 1 0  
## 5 0 1 0  
## 6 1 0 0

# Seeing if there are rows with 0s for each dummy  
raw.data[c("agegr\_2", "agegr\_3", "agegr\_4")] %>% rowSums()

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## [19045] 1 1 1 1 0 1 1 1 1 1 0 1 1 1 1 1 0 1 1 1 0 0 0 0 1 0 1 0 1 1 1 1 1 0 1 1  
## [19081] 0 0 0 1

# Finding rows which correspond to those under 40 (note all those under 18 and above 60 were dropped)  
raw.data$under\_40yo <- ifelse(rowSums(raw.data[c("agegr\_3", "agegr\_4")]) == 0, 1, 0)  
  
# Getting an idea of current variables  
raw.data[c("agegr\_2", "agegr\_3", "agegr\_4", "under\_40yo")] %>% head()

## agegr\_2 agegr\_3 agegr\_4 under\_40yo  
## 1 1 0 0 1  
## 2 0 1 0 0  
## 3 1 0 0 1  
## 4 0 1 0 0  
## 5 0 1 0 0  
## 6 1 0 0 1

Examining the balance of this dummy variable across treatment groups

cro(raw.data$treat, raw.data$under\_40yo)

 raw.data$under\_40yo

 0

 1

 raw.data$treat

   0

3962

6374

   1

3243

5505

   #Total cases

7205

11879

cro\_cpct\_responses(raw.data$under\_40yo, raw.data$treat)

 raw.data$treat

 0

 1

 raw.data$under\_40yo

   0

38.3

37.1

   1

61.7

62.9

   #Total responses

10336

8748

cro\_cpct\_responses(raw.data$treat, raw.data$under\_40yo)

 raw.data$under\_40yo

 0

 1

 raw.data$treat

   0

55

53.7

   1

45

46.3

   #Total responses

7205

11879

attach(raw.data)

Calculating the standardize bias and difference in means

balance\_check.model <- function(x){  
   
 # Conditional means  
 mean\_d0 <- mean(x[treat==0])  
 mean\_d1 <- mean(x[treat==1])  
   
 # Variances in subsamples  
 var\_d0 <- var(x[treat==0])  
 var\_d1 <- var(x[treat==1])  
   
 # Difference in means  
 diff\_d <- lm(x ~ treat)  
 cov <- vcovHC(diff\_d, type = "HC")  
 robust.se <- sqrt(diag(cov))  
   
 # Absolute standardized bias  
 sb <- abs((mean\_d1-mean\_d0)/sqrt((var\_d0+var\_d1)/2))\*100  
   
 # Store output as a list   
 list(mean\_d0 = mean\_d0,   
 mean\_d1 = mean\_d1,  
 diff\_d = diff\_d$coefficients[2],   
 robust.se = robust.se[2],   
 pval = 2\*pnorm(-abs(diff\_d$coefficients[2]/robust.se[2])),  
 SB = sb)   
}  
  
balance\_check.model(raw.data$under\_40yo)

## $mean\_d0  
## [1] 0.6166796  
##   
## $mean\_d1  
## [1] 0.6292867  
##   
## $diff\_d  
## treat   
## 0.01260713   
##   
## $robust.se  
## treat   
## 0.00703828   
##   
## $pval  
## treat   
## 0.07325754   
##   
## $SB  
## [1] 2.601426

The simple comparison of balance across groups reveals that the probability of being treated (i.e. being a participant) is comparable between those under the age of 40 and those 40 years old or older, with 45% of those under 40 being a participant and 46.3% of those 40 years old or older being a participant. The difference in means statistical test evaluated the null hypothesis that those under 40 year old contains have the same probability of being treated as those over 40 years old. The p-value of 0.073 suggests that is not enough evidence to reject the null, (assuming we decided on a 5% significance level a priori) i.e. there is not enough evidence to conclude that the two groups have a different probability of being treated.

I would say it is not so straightforward to decide whether or not it should be included. Strictly speaking, in terms of causal effect identification, it is not necessary to include if it does not influence the probability of being treated, even if it is associated with the outcome. However, including the variable could improve the precision of the estimate, especially if it is a strong predictor of the outcome.

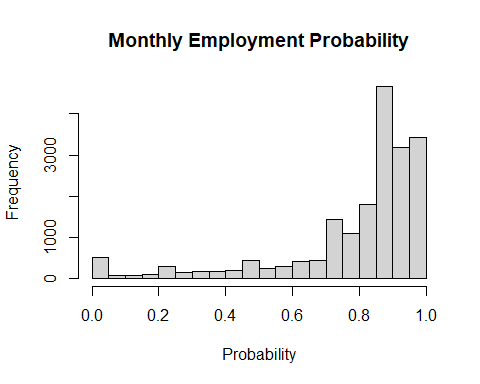
It is perhaps even more complicated because the question precisely asks if we should `account for age differences’. If this is taken to ask if we should account for age differences more generally, the answer might change. Here we have calculated an age variable that is dichotomizing a continuous (or discrete…) quantity. It could be the case that an age variable defined in a different manner could be predictive of treatment status, indicating that it should be included.

## Question 2

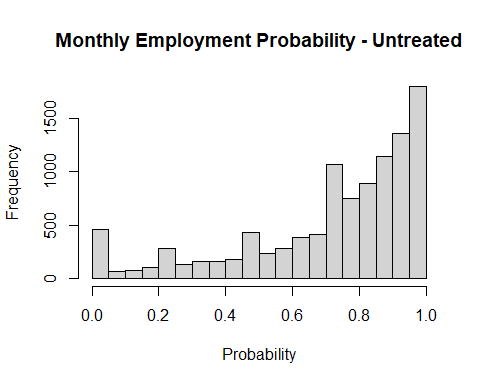
### (a)

# Set the horizon  
maxdur <- 24  
  
# Create a matrix with n rows and 24 columns  
emp <- matrix(0, nrow = nrow(raw.data), ncol = maxdur)  
  
# Create column names like emp\_1 to emp\_24  
emp\_list <- paste("emp", 1:maxdur, sep = "\_")  
colnames(emp) <- emp\_list  
  
# Fill in the matrix  
for (i in 1:maxdur) {  
 emp[, i] <- ifelse(  
 raw.data$date\_end < raw.data$date\_start + 30 \* i,  
 1, # employed in month i  
 0 # still unemployed in month i  
 )  
}  
  
# Convert to data frame and combine with original data  
emp <- as.data.frame(emp)  
raw.data <- cbind(raw.data, emp)

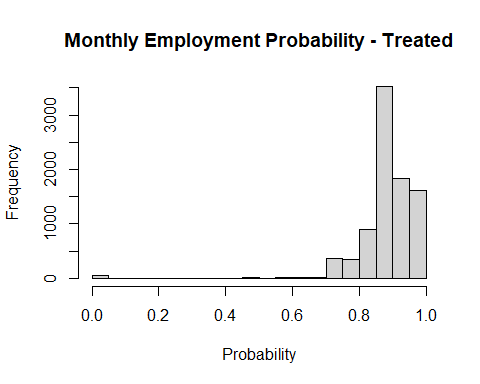
# Inspect distribution of monthly employment probability (for each spell)  
hist(raw.data$month\_employ\_prob, main = "Monthly Employment Probability", xlab = "Probability")



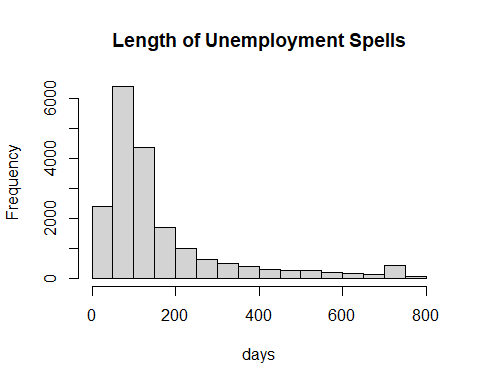
hist(subset(raw.data$month\_employ\_prob, treat == 0), main = "Monthly Employment Probability - Untreated", xlab = "Probability")



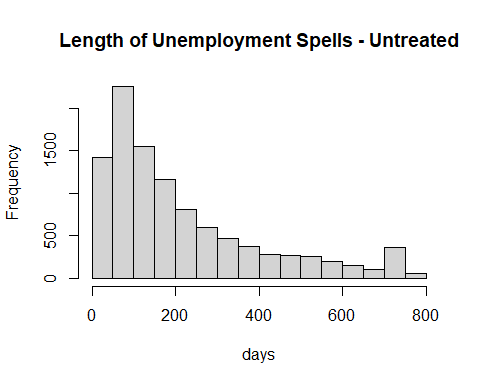
hist(subset(raw.data$month\_employ\_prob, treat == 1), main = "Monthly Employment Probability - Treated", xlab = "Probability")



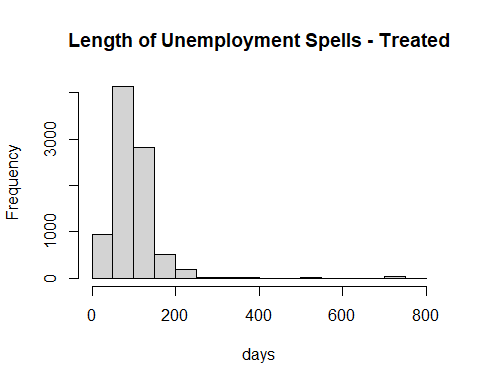
# Sanity check for employment duration length  
raw.data$duration <- raw.data$date\_end - raw.data$date\_start  
hist(as.numeric(raw.data$duration), xlab = "days", main = "Length of Unemployment Spells")



hist(subset(as.numeric(raw.data$duration), treat == 0), xlab = "days", main = "Length of Unemployment Spells - Untreated")



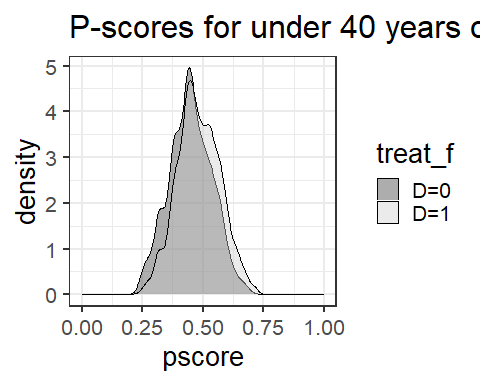
hist(subset(as.numeric(raw.data$duration), treat == 1), xlab = "days", main = "Length of Unemployment Spells - Treated")



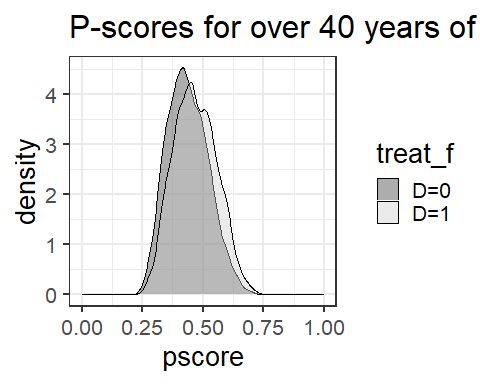
### (b)

# Splitting data into under 40 years old and over 40 years old  
data\_u40 <- raw.data %>% filter(under\_40yo == 1)  
data\_o40 <- raw.data %>% filter(under\_40yo == 0)  
  
treat\_u40 <- data\_u40$treat  
treat\_o40 <- data\_o40$treat  
  
x\_u40 <- as.matrix(dplyr::select(data\_u40,   
 covs))  
x\_o40 <- as.matrix(dplyr::select(data\_o40,   
 covs))  
x\_names <- colnames(x\_u40)

# Create a factor variable for treatment status for the plot  
data\_u40$treat\_f <- factor(treat\_u40,   
 levels = c(0,1),   
 label = c("D=0", "D=1"))   
  
# Density plot for the propensity score by treatment status  
ggplot(data\_u40, aes(x = pscore, fill = treat\_f)) +   
 geom\_density(alpha=0.4) +   
 scale\_fill\_grey()+   
 theme\_bw(base\_size = 20) +  
 xlim(0, 1) + ggtitle("P-scores for under 40 years of age")



# Create a factor variable for treatment status for the plot  
data\_o40$treat\_f <- factor(treat\_o40,   
 levels = c(0,1),   
 label = c("D=0", "D=1"))   
  
# Density plot for the propensity score by treatment status  
ggplot(data\_o40, aes(x = pscore, fill = treat\_f)) +   
 geom\_density(alpha=0.4) +   
 scale\_fill\_grey()+   
 theme\_bw(base\_size = 20) +  
 xlim(0, 1) + ggtitle("P-scores for over 40 years of age")



# Only 1 observation removed from each  
nrow(data\_u40) - nrow(data\_u40\_trimmed)

## [1] 1

nrow(data\_o40) - nrow(data\_o40\_trimmed)

## [1] 1

# Checking for aligment  
min(data\_u40\_trimmed$pscore[data\_u40\_trimmed$treat == 1])

## [1] 0.2181906

max(data\_u40\_trimmed$pscore[data\_u40\_trimmed$treat == 1])

## [1] 0.7217598

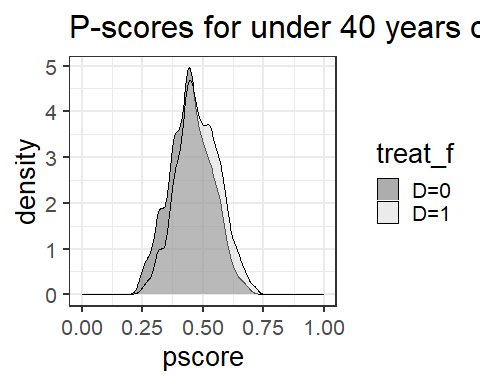
min(data\_u40\_trimmed$pscore[data\_u40\_trimmed$treat == 0])

## [1] 0.2181906

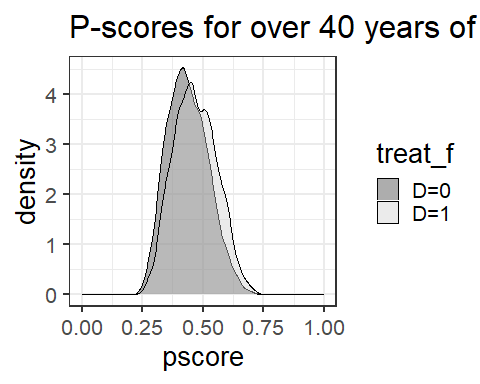
max(data\_u40\_trimmed$pscore[data\_u40\_trimmed$treat == 0])

## [1] 0.7387744

# Density plot for the propensity score by treatment status  
ggplot(data\_u40\_trimmed, aes(x = pscore, fill = treat\_f)) +   
 geom\_density(alpha=0.4) +   
 scale\_fill\_grey()+   
 theme\_bw(base\_size = 20) +  
 xlim(0, 1) + ggtitle("P-scores for under 40 years of age - Trimmed")



# Density plot for the propensity score by treatment status  
ggplot(data\_o40\_trimmed, aes(x = pscore, fill = treat\_f)) +   
 geom\_density(alpha=0.4) +   
 scale\_fill\_grey()+   
 theme\_bw(base\_size = 20) +  
 xlim(0, 1) + ggtitle("P-scores for over 40 years of age - Trimmed")

 ### (c)

# Define the outcome - "monthly employment probability"  
y1\_u40 <- data\_u40\_trimmed$month\_employ\_prob   
y1\_o40 <- data\_o40\_trimmed$month\_employ\_prob  
x\_u40 <- as.matrix(data\_u40\_trimmed[covs])  
x\_o40 <- as.matrix(data\_o40\_trimmed[covs])  
treat\_u40 <- data\_u40\_trimmed$treat  
treat\_o40 <- data\_o40\_trimmed$treat  
  
x\_u40

## sex\_1 marits\_1 region\_1 region\_2 region\_3 region\_4 region\_5 region\_7  
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## [ reached getOption("max.print") -- omitted 9553 rows ]

# Create function to do IPW for each month  
reg\_monthly\_ipw <- function(y, d, x) {  
 ipw <- treatweight(y = y, d = d, x = x, ATET = FALSE, trim = 0, boot = s\_boot)  
 list(effect = ipw$effect, se = ipw$se)  
}

### For over 40 years of age  
  
# Create a matrix for employment status for each month  
emp\_o40 <- data\_o40\_trimmed %>% dplyr::select(colnames(emp)) %>% as.matrix()  
  
# Apply IPW each month  
ipw\_monthly\_o40 <- apply(emp\_o40, 2, function(y) reg\_monthly\_ipw(y, treat\_o40, x\_o40))  
  
# Look at results  
ipw\_monthly\_o40\_df <- rbindlist(ipw\_monthly\_o40)  
ipw\_monthly\_o40\_df$month <- 1:maxdur  
  
# Add confidence intervals  
ipw\_monthly\_o40\_df <- ipw\_monthly\_o40\_df %>%  
 mutate(  
 cil = effect - 1.96 \* se,  
 cih = effect + 1.96 \* se,  
 sig = ifelse(abs(effect / se) > 1.64, effect, NA)  
 )

### For under 40 years of age  
  
# Create a matrix for employment status for each month  
emp\_u40 <- data\_u40\_trimmed %>% dplyr::select(colnames(emp)) %>% as.matrix()  
  
# Apply IPW each month  
ipw\_monthly\_u40 <- apply(emp\_u40, 2, function(y) reg\_monthly\_ipw(y, treat\_u40, x\_u40))  
  
# Look at results  
ipw\_monthly\_u40\_df <- rbindlist(ipw\_monthly\_u40)  
ipw\_monthly\_u40\_df$month <- 1:maxdur  
  
# Add confidence intervals  
ipw\_monthly\_u40\_df <- ipw\_monthly\_u40\_df %>%  
 mutate(  
 cil = effect - 1.96 \* se,  
 cih = effect + 1.96 \* se,  
 sig = ifelse(abs(effect / se) > 1.64, effect, NA)  
 )

ipw\_monthly\_u40\_df$Group <- "Under 40"  
ipw\_monthly\_o40\_df$Group <- "Over 40"  
ipw\_monthly\_df <- rbind(ipw\_monthly\_u40\_df, ipw\_monthly\_o40\_df)  
ipw\_monthly\_df <- ipw\_monthly\_df %>% dplyr::select(Group, everything())

# Create tables by group  
ipw\_monthly\_u40\_gt <- ipw\_monthly\_df %>%  
 filter(Group == "Under 40") %>%  
 gt() %>%  
 tab\_header(  
 title = "Monthly IPW Estimates: Under 40",  
 subtitle = "Inverse Probability Weighting (ATE Estimates per Month)"  
 ) %>%  
 fmt\_number(columns = c(effect, se, cil, cih, sig), decimals = 3) %>%  
 cols\_label(  
 month = "Month",  
 effect = "ATE",  
 se = "Std. Error",  
 cil = "CI Lower",  
 cih = "CI Upper",  
 sig = "Significant Effects"  
 )  
  
ipw\_monthly\_o40\_gt <- ipw\_monthly\_df %>%  
 filter(Group == "Over 40") %>%  
 gt() %>%  
 tab\_header(  
 title = "Monthly IPW Estimates: Over 40",  
 subtitle = "Inverse Probability Weighting (ATE Estimates per Month)"  
 ) %>%  
 fmt\_number(columns = c(effect, se, cil, cih, sig), decimals = 3) %>%  
 cols\_label(  
 month = "Month",  
 effect = "ATE",  
 se = "Std. Error",  
 cil = "CI Lower",  
 cih = "CI Upper",  
 sig = "Significant Effects"  
 )  
  
ipw\_monthly\_u40\_gt

Table 1: Monthly IPW Estimates: Under 40

Inverse Probability Weighting (ATE Estimates per Month)

| Group | ATE | Std. Error | Month | CI Lower | CI Upper | Significant Effects |
| --- | --- | --- | --- | --- | --- | --- |
| Under 40 | -0.035 | 0.003 | 1 | -0.040 | -0.030 | -0.035 |
| Under 40 | 0.002 | 0.007 | 2 | -0.012 | 0.015 | NA |
| Under 40 | 0.077 | 0.006 | 3 | 0.065 | 0.089 | 0.077 |
| Under 40 | 0.374 | 0.009 | 4 | 0.356 | 0.392 | 0.374 |
| Under 40 | 0.375 | 0.009 | 5 | 0.357 | 0.393 | 0.375 |
| Under 40 | 0.337 | 0.007 | 6 | 0.323 | 0.350 | 0.337 |
| Under 40 | 0.302 | 0.007 | 7 | 0.289 | 0.316 | 0.302 |
| Under 40 | 0.265 | 0.005 | 8 | 0.255 | 0.276 | 0.265 |
| Under 40 | 0.228 | 0.003 | 9 | 0.221 | 0.235 | 0.228 |
| Under 40 | 0.194 | 0.004 | 10 | 0.186 | 0.203 | 0.194 |
| Under 40 | 0.170 | 0.004 | 11 | 0.163 | 0.178 | 0.170 |
| Under 40 | 0.150 | 0.006 | 12 | 0.139 | 0.161 | 0.150 |
| Under 40 | 0.132 | 0.004 | 13 | 0.124 | 0.141 | 0.132 |
| Under 40 | 0.115 | 0.005 | 14 | 0.106 | 0.124 | 0.115 |
| Under 40 | 0.102 | 0.004 | 15 | 0.094 | 0.110 | 0.102 |
| Under 40 | 0.089 | 0.003 | 16 | 0.084 | 0.095 | 0.089 |
| Under 40 | 0.077 | 0.004 | 17 | 0.070 | 0.085 | 0.077 |
| Under 40 | 0.067 | 0.005 | 18 | 0.057 | 0.077 | 0.067 |
| Under 40 | 0.056 | 0.003 | 19 | 0.051 | 0.061 | 0.056 |
| Under 40 | 0.044 | 0.003 | 20 | 0.039 | 0.050 | 0.044 |
| Under 40 | 0.036 | 0.005 | 21 | 0.027 | 0.045 | 0.036 |
| Under 40 | 0.030 | 0.002 | 22 | 0.026 | 0.034 | 0.030 |
| Under 40 | 0.026 | 0.003 | 23 | 0.021 | 0.031 | 0.026 |
| Under 40 | 0.023 | 0.002 | 24 | 0.018 | 0.027 | 0.023 |

ipw\_monthly\_o40\_gt

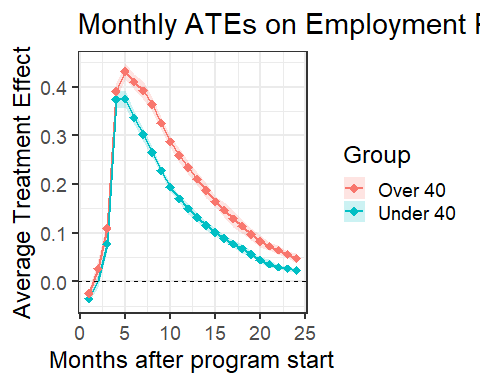
Table 1: Monthly IPW Estimates: Over 40

Inverse Probability Weighting (ATE Estimates per Month)

| Group | ATE | Std. Error | Month | CI Lower | CI Upper | Significant Effects |
| --- | --- | --- | --- | --- | --- | --- |
| Over 40 | -0.024 | 0.004 | 1 | -0.031 | -0.016 | -0.024 |
| Over 40 | 0.027 | 0.009 | 2 | 0.008 | 0.045 | 0.027 |
| Over 40 | 0.109 | 0.007 | 3 | 0.095 | 0.123 | 0.109 |
| Over 40 | 0.391 | 0.008 | 4 | 0.375 | 0.407 | 0.391 |
| Over 40 | 0.432 | 0.008 | 5 | 0.416 | 0.448 | 0.432 |
| Over 40 | 0.410 | 0.008 | 6 | 0.395 | 0.426 | 0.410 |
| Over 40 | 0.393 | 0.009 | 7 | 0.374 | 0.411 | 0.393 |
| Over 40 | 0.364 | 0.008 | 8 | 0.350 | 0.379 | 0.364 |
| Over 40 | 0.326 | 0.006 | 9 | 0.314 | 0.338 | 0.326 |
| Over 40 | 0.287 | 0.006 | 10 | 0.276 | 0.299 | 0.287 |
| Over 40 | 0.259 | 0.008 | 11 | 0.245 | 0.274 | 0.259 |
| Over 40 | 0.234 | 0.007 | 12 | 0.221 | 0.248 | 0.234 |
| Over 40 | 0.211 | 0.007 | 13 | 0.197 | 0.224 | 0.211 |
| Over 40 | 0.187 | 0.008 | 14 | 0.172 | 0.203 | 0.187 |
| Over 40 | 0.164 | 0.005 | 15 | 0.154 | 0.174 | 0.164 |
| Over 40 | 0.147 | 0.008 | 16 | 0.131 | 0.163 | 0.147 |
| Over 40 | 0.129 | 0.008 | 17 | 0.112 | 0.146 | 0.129 |
| Over 40 | 0.114 | 0.007 | 18 | 0.100 | 0.129 | 0.114 |
| Over 40 | 0.097 | 0.006 | 19 | 0.085 | 0.109 | 0.097 |
| Over 40 | 0.083 | 0.006 | 20 | 0.071 | 0.094 | 0.083 |
| Over 40 | 0.073 | 0.004 | 21 | 0.065 | 0.081 | 0.073 |
| Over 40 | 0.065 | 0.005 | 22 | 0.056 | 0.075 | 0.065 |
| Over 40 | 0.056 | 0.003 | 23 | 0.050 | 0.063 | 0.056 |
| Over 40 | 0.048 | 0.005 | 24 | 0.037 | 0.058 | 0.048 |

## Question 3

# Plotting results by month by age group  
ipw\_monthly\_u40\_df$Group <- "Under 40"  
ipw\_monthly\_o40\_df$Group <- "Over 40"  
ipw\_monthly\_all <- bind\_rows(ipw\_monthly\_u40\_df, ipw\_monthly\_o40\_df)  
  
  
ggplot(ipw\_monthly\_all, aes(x = month, y = effect, color = Group, fill = Group)) +  
 geom\_line(size = 1) +  
 geom\_ribbon(aes(ymin = cil, ymax = cih), alpha = 0.2, color = NA) +  
 geom\_point(aes(y = sig), shape = 18, size = 3) +  
 geom\_hline(yintercept = 0, linetype = "dashed") +  
 theme\_bw(base\_size = 18) +  
 labs(  
 title = "Monthly ATEs on Employment Probability by Age Group",  
 x = "Months after program start",  
 y = "Average Treatment Effect"  
 )



The figure would suggest that for the first month, participants in both age groups have a lower probability of employment than non-participants, perhaps due to their participation in the program in that month. The program had a large impact on both groups in the first five to six months, peaking at a change in employment probability by about 40 percentage points. After month 5, the effect of the program begins to decay. However, this decay is greater in the under 40 age group, reflected in a smaller average treatment effect.

The average treatment effect (ATE) is the effect of the program had everyone been treated, even including those who were not treated. The average treatment effect on the treated (ATET) is the effect of the program only on participants. This means that the ATET estimate is only relevant to participants and would not say something about the effect on the program on non-participants. This two quantities could differ if factors related to employment differed systematically between participants and non-participants. For example, the ATET might be higher if those who actually participated in the program are more responsive to the program compared to non-participants had they participated.

## Question 4

See other document