Total Family Income vs Abpoor (Low income - cant afford more children)

Introduction:

- 1) Research Question: Is there a relationship between total family income (income06) and likelihood of having an abortion?
- 2) This question can give an insight that, if we consider any family situation whose total family income is less than \$1000 and if the mother is pregnant, then the family cannot afford to grow the child which will likely lead to aborting the child. So, I care that if there is any such kind of relationship seen, then something has to be done inorder to reduce the abortion rate.
- 3) A pregnant mother should not take the decision of abortion due to low family income which can be unaccepatble reason for abortion. This case has to be seriously taken care if we bring out a positive inference in this research question.

Data:

1) Data Collection: The data consist of GSS Cumulative File from 1972 - 2012. General Social Survey (GSS) has been monitoring societal change and studying the growing complexity of American society. The GSS aims to gather data on contemporary American society in order to monitor and explain trends and constants in attitudes, behaviors, and attributes; to examine the structure and functioning of society in general as well as the role played by relevant subgroups; to compare the United States to other societies in order to place American society in comparative perspective and develop cross-national models of human society; and to make high-quality data easily accessible to scholars, students, policy makers, and others, with minimal cost and waiting.

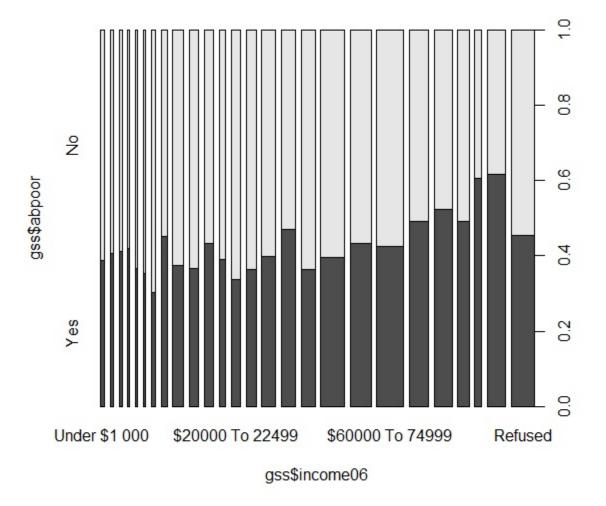
GSS questions cover a diverse range of issues including national spending priorities, marijuana use, crime and punishment, race relations, quality of life, confidence in institutions, and sexual behavior.

- 2) The cases are the individuals in USA.
- 3) The two variables used in the study are "incom06" and "abpoor" and both are categorical variables.
- 4) The type of study used here is "observational study" as the data collected does not directly interfere with how the data arise. As already stated, the data are collected randomly and it has nothing to do how data looks like.
- 5) The population of interest is all the people in US whose income is under \$1000. We can generalize the findings from this analysis and generalize to the whole population. Once we find there is positive relation in abpoor and income under \$1000, we can generalize to other income group and find whether it is alternative hypothesis or null hypothesis.
- 6) The data cannot be used to produce causal link as this is an observational study. In an observational study, we can establish association between the explanatory and response variables.

Exploratory data analysis:

-> Let us plot the abpoor variable with the income06 variable.

plot(gss\$abpoor ~ gss\$income06)



- -> From the above plot we get a picture of how many people in each income category answered "yes" or "no" in abpoor field.
- -> Let us see how many of the people in each category surveyed "yes" or "no" in abpoor for each income group. The below code help us to get the count.

```
mytable <- table(gss$abpoor, gss$income06)</pre>
mytable
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          Under $1 000 $1 000 To 2 999 $3 000 To 3 999 $4 000 To 4 999
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##
     Yes
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##
          $20000 To 22499 $22500 To 24999 $25000 To 29999 $30000 To 34999
```

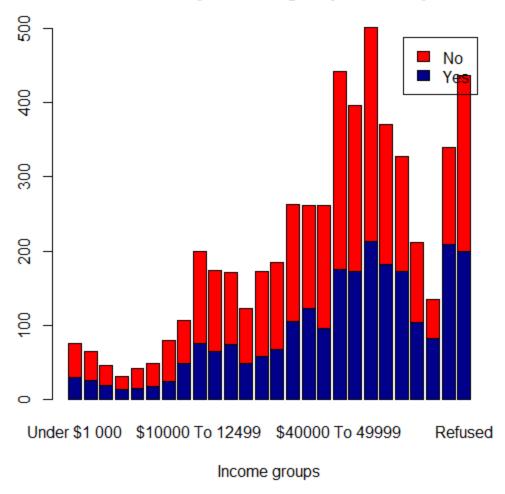
## ## ##	Yes No	58 67 105 123 114 117 158 138
## ## ##	Yes No	\$35000 To 39999 \$40000 To 49999 \$50000 To 59999 \$60000 To 74999 95 175 172 213 167 267 224 288
## ## ##	Yes No	\$75000 To \$89999 \$90000 To \$109999 \$110000 To \$129999 182 172 104 189 156 108
## ## ## ##	Yes No	\$130000 To \$149999 \$150000 Or Over Refused 82 209 199 53 130 238

^{-&}gt; From the above table, we can see that there are about 29 people who survyed "yes" and 49 people surveyed "no". Likewise we can see the count for other income groups as well. But we cannot come to any conclusion on the relationship without doing inferences.

VISUALIZATION OUTPUT: -> The below bar plot shows us the chart on the findings before.

```
counts <- table(gss$abpoor, gss$income06)
barplot(counts, main = "Distribution by income groups and abpoor", xlab =
"Income groups",
    col = c("darkblue", "red"), legend = rownames(counts))</pre>
```

Distribution by income groups and abpoor



Inference:

Hypothesis Statement: Does there appear to be relationship between "abpoor" and total family income?

H0 => "abpoor" and "income06" are independent (do not vary). Ha => "abpoor" and "income06" are dependent (do vary)

Let us check whether the conditions are met: 1) Independence: Sampled observations are independent. -> Yes in this research sample, every sample are independent to each other. So independence is acheived. 2) the samples taken are random. 3) If sampling without replacement we get n which is less than 10% total population in US. 4) each case only contributes to one cell in the table. If we look at the "mytable" output in Part3, we can see that each case contributes to each income groups.

Method to test the Hypothesis: As we have two categorical variables and atleast one of these has level greater than 2, we go for "chi-square independent test". As already stated, we are going to find the independence on "abpoor" and "income06". So we go for this method.

INFERENCE: In this test we are going to find the difference in observed and expected counts between various groups and find the chi-square.

The observed counts can be achieved by:

<pre>mytable <- table(gss\$abpoor, gss\$income06) mytable ##</pre>									
## ## ## ##	Yes No	2	00 \$1 000 то 29 46	2 999 \$3 26 38		99 \$4 000 To 19 27	0 4 999 13 18		
## ## ## ##	Yes No	\$5 000 To 5	5 999 \$6 000 15 26	To 6 999 17 31	\$7 000 то	7 999 \$8 000 24 55	7 то 9 999 48 58		
## ## ## ##	Yes No	\$10000 To 1	12499 \$12500 75 125	To 14999 64 110	\$15000 то	17499 \$17500 74 97	7 То 19999 48 75		
## ## ## ##	Yes No	\$20000 то 2	22499 \$22500 58 114	To 24999 67 117	\$25000 то	29999 \$30000 105 158	7 то 34999 123 138		
## ## ## ##	Yes No	\$35000 то 3	39999 \$40000 95 167	To 49999 175 267	\$50000 то	59999 \$60000 172 224	74999 213 288		
## ## ## ##	Yes No	\$75000 то \$	\$89999 \$90000 182 189		999 \$110000 172 156	To \$129999 104 108			
## ## ##	Yes No	\$130000 To	\$149999 \$150 82 53		ver Refused 209 199 130 238				

Then we can find the expected count by the formula given in the video lectures.

Now let us find the overall abpoor rate ("yes") in the sample: 2408/5362 = 44.9%

Then we should find the chi-square, we get 148.67. The degrees of freedom is (no.of rows-1)*(no. of columns - 1) = 25. We cand find the p-value as:

```
pchisq(148.61, 25, lower.tail = FALSE)
## [1] 1.521e-19
```

The p-value seems to be very low, hence we reject the null hypothesis. Hence, we can come to conclusion that "abpoor" and "income06" are dependent to each other.

Conclusion:

From the inferences, we found that the abpoor do vary as the total family income in any family increases. But there are certain aspects which we need to analyse of which there is some dependent relationship. Some columns like education attained, age, etc are the other factors which may force the mother to abort the child rather than the family income. So this has to be considered.

REFERENCES:

Data Citation

Smith, Tom W., Michael Hout, and Peter V. Marsden. General Social Survey, 1972-2012 [Cumulative File]. ICPSR34802-v1. Storrs, CT: Roper Center for Public Opinion Research, University of Connecticut /Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributors], 2013-09-11. doi:10.3886/ICPSR34802.v1

URL: http://doi.org/10.3886/ICPSR34802.v1

APENDIX:

The data set used in this project is:

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12 ## 3	3 1	L972	48	Female	White	<na></na>	<na></na>	12	8	8
11 ## 4	4 1	L972	27	Female	White	<na></na>	<na></na>	17	16	12
20 ## 5	5 1	L972	61	Female	White	<na></na>	<na></na>	12	8	8
12 ## 6	6 1	L972	26	Male	White	<na></na>	<na></na>	14	18	19
NA ## 7	7 1	L972	28	Male	White	<na></na>	<na></na>	13	16	12
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