

R Project

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```
setwd("~/Downloads") # Set working directory to Downloads folder
data <- read.csv("Predict Hair Fall.csv")
```

```
head(data)
```

```
##      Id Genetics Hormonal.Changes Medical.Conditions Medications...Treatments
## 1 133992      Yes              No              No Data              No Data
## 2 148393      No              No              Eczema              Antibiotics
## 3 155074      No              No              Dermatitis          Antifungal Cream
## 4 118261      Yes              Yes              Ringworm            Antibiotics
## 5 111915      No              No              Psoriasis             Accutane
## 6 139661      Yes              No              Psoriasis             Antibiotics
##      Nutritional.Deficiencies Stress Age Poor.Hair.Care.Habits
## 1      Magnesium deficiency Moderate 19                      Yes
## 2      Magnesium deficiency      High 43                      Yes
## 3      Protein deficiency Moderate 26                      Yes
## 4      Biotin Deficiency Moderate 46                      Yes
## 5      Iron deficiency Moderate 30                      No
## 6      Magnesium deficiency      Low 37                      No
##      Environmental.Factors Smoking Weight.Loss Hair.Loss
## 1                      Yes      No      No      0
## 2                      Yes      No      No      0
## 3                      Yes      No      Yes     0
## 4                      Yes      No      No      0
## 5                      Yes      Yes     No      1
## 6                      Yes      No      Yes     1
```

```
# Create a subset of the dataframe without the column to remove
data <- subset(data, select = -Id)
```

```
head(data)
```

```
##      Genetics Hormonal.Changes Medical.Conditions Medications...Treatments
## 1      Yes              No              No Data              No Data
## 2      No              No              Eczema              Antibiotics
## 3      No              No              Dermatitis          Antifungal Cream
## 4      Yes              Yes              Ringworm            Antibiotics
## 5      No              No              Psoriasis             Accutane
## 6      Yes              No              Psoriasis             Antibiotics
##      Nutritional.Deficiencies Stress Age Poor.Hair.Care.Habits
```

```
## 1    Magnesium deficiency Moderate 19          Yes
## 2    Magnesium deficiency      High 43          Yes
## 3      Protein deficiency Moderate 26          Yes
## 4      Biotin Deficiency  Moderate 46          Yes
## 5          Iron deficiency Moderate 30          No
## 6    Magnesium deficiency      Low 37          No
##   Environmental.Factors Smoking Weight.Loss Hair.Loss
## 1                Yes      No      No      0
## 2                Yes      No      No      0
## 3                Yes      No      Yes      0
## 4                Yes      No      No      0
## 5                Yes      Yes      No      1
## 6                Yes      No      Yes      1
```

```
summary(data)
```

```
##      Genetics      Hormonal.Changes  Medical.Conditions
## Length:999      Length:999      Length:999
## Class :character Class :character Class :character
## Mode  :character Mode  :character Mode  :character
##
##
##
## Medications...Treatments Nutritional.Deficiencies  Stress
## Length:999      Length:999      Length:999
## Class :character Class :character Class :character
## Mode  :character Mode  :character Mode  :character
##
##
##
##      Age      Poor.Hair.Care.Habits Environmental.Factors  Smoking
## Min.   :18.00 Length:999      Length:999      Length:999
## 1st Qu.:26.00 Class :character Class :character Class :character
## Median :34.00 Mode  :character Mode  :character Mode  :character
## Mean   :34.19
## 3rd Qu.:42.00
## Max.   :50.00
## Weight.Loss      Hair.Loss
## Length:999      Min.    :0.0000
## Class :character 1st Qu.:0.0000
## Mode  :character Median :0.0000
##                  Mean   :0.4975
##                  3rd Qu.:1.0000
##                  Max.   :1.0000
```

```
# Check the dimensions (rows and columns) of the dataframe
dimensions <- dim(data)
num_rows <- dimensions[1]
num_columns <- dimensions[2]

# Print the number of rows and columns
cat("Number of rows:", num_rows, "\n")
```

```
## Number of rows: 999
```

```
cat("Number of columns:", num_columns, "\n")
```

```
## Number of columns: 12
```

```
# Check the structure of the dataframe to identify variable types  
str(data)
```

```
## 'data.frame': 999 obs. of 12 variables:  
## $ Genetics : chr "Yes" "No" "No" "Yes" ...  
## $ Hormonal.Changes : chr "No" "No" "No" "Yes" ...  
## $ Medical.Conditions : chr "No Data" "Eczema" "Dermatosis" "Ringworm" ...  
## $ Medications...Treatments: chr "No Data" "Antibiotics" "Antifungal Cream" "Antibiotics" ...  
## $ Nutritional.Deficiencies: chr "Magnesium deficiency" "Magnesium deficiency" "Protein deficiency"  
## $ Stress : chr "Moderate" "High" "Moderate" "Moderate" ...  
## $ Age : int 19 43 26 46 30 37 40 35 19 49 ...  
## $ Poor.Hair.Care.Habits : chr "Yes" "Yes" "Yes" "Yes" ...  
## $ Environmental.Factors : chr "Yes" "Yes" "Yes" "Yes" ...  
## $ Smoking : chr "No" "No" "No" "No" ...  
## $ Weight.Loss : chr "No" "No" "Yes" "No" ...  
## $ Hair.Loss : int 0 0 0 0 1 1 1 0 1 0 ...
```

```
# Check for null values in the dataframe  
null_values <- is.na(data)
```

```
# Check if there are any null values overall  
if (any(null_values)) {  
  cat("There are null values in the dataset.\n")  
  
  # Print the count of null values for each column  
  print(colSums(null_values))  
} else {  
  cat("There are no null values in the dataset.\n")  
}
```

```
## There are no null values in the dataset.
```

```
# Check for duplicate rows in the dataframe  
duplicates <- duplicated(data)
```

```
# Count the number of duplicate rows  
num_duplicates <- sum(duplicates)
```

```
# Print the number of duplicate rows  
if (num_duplicates > 0) {  
  cat("There are duplicate rows in the dataset.\n")  
  cat("Number of duplicate rows:", num_duplicates, "\n")
```

```
# Remove duplicate rows from the dataframe  
data <- data[!duplicates, ]  
  
  cat("Duplicate rows have been removed.\n")  
} else {
```

```
cat("There are no duplicate rows in the dataset.\n")
}
```

```
## There are duplicate rows in the dataset.
## Number of duplicate rows: 1
## Duplicate rows have been removed.
```

```
# Calculating the Interquartile Range (IQR)
variable <- data$Age
Q1 <- quantile(variable, 0.25)
Q3 <- quantile(variable, 0.75)
IQR <- Q3 - Q1

# Identify potential outliers
potential_outliers <- variable < (Q1 - 1.5 * IQR) | variable > (Q3 + 1.5 * IQR)

# Print the result
print(any(potential_outliers))
```

```
## [1] FALSE
```

```
# Assuming your data frame is named 'data_frame' and you want to get unique values for all 11 columns
for (col in names(data)) {
  unique_values <- unique(data[[col]])
  cat("Unique values for column", col, ":\n")
  print(unique_values)
  cat("\n")
}
```

```
## Unique values for column Genetics :
## [1] "Yes" "No"
##
## Unique values for column Hormonal.Changes :
## [1] "No" "Yes"
##
## Unique values for column Medical.Conditions :
## [1] "No Data" "Eczema" "Dermatosis"
## [4] "Ringworm" "Psoriasis" "Alopecia Areata "
## [7] "Scalp Infection" "Seborrheic Dermatitis" "Dermatitis"
## [10] "Thyroid Problems" "Androgenetic Alopecia"
##
## Unique values for column Medications...Treatments :
## [1] "No Data" "Antibiotics"
## [3] "Antifungal Cream" "Accutane"
## [5] "Chemotherapy" "Steroids"
## [7] "Rogaine" "Blood Pressure Medication"
## [9] "Immunomodulators" "Antidepressants "
## [11] "Heart Medication "
##
## Unique values for column Nutritional.Deficiencies :
## [1] "Magnesium deficiency" "Protein deficiency" "Biotin Deficiency "
## [4] "Iron deficiency" "Selenium deficiency" "Omega-3 fatty acids"
```

```
## [7] "Zinc Deficiency"      "Vitamin A Deficiency" "Vitamin D Deficiency"
## [10] "No Data"               "Vitamin E deficiency"
##
## Unique values for column Stress :
## [1] "Moderate" "High"      "Low"
##
## Unique values for column Age :
## [1] 19 43 26 46 30 37 40 35 49 48 20 34 29 33 28 41 21 22 45 24 31 39 38 36 18
## [26] 44 50 27 25 23 47 32 42
##
## Unique values for column Poor.Hair.Care.Habits :
## [1] "Yes" "No"
##
## Unique values for column Environmental.Factors :
## [1] "Yes" "No"
##
## Unique values for column Smoking :
## [1] "No"  "Yes"
##
## Unique values for column Weight.Loss :
## [1] "No"  "Yes"
##
## Unique values for column Hair.Loss :
## [1] 0 1
```

```
# Assuming your column is named 'your_column' and your dataframe is named 'data_frame'
# Compute the mode of the column 'Medical.Conditions'
mode_value <- names(sort(table(data$Medical.Conditions), decreasing = TRUE))[1]
mode_value
```

```
## [1] "No Data"
```

```
# Replace "No Data" with the mode value
data$Medical.Conditions[data$Medical.Conditions == "No Data"] <- mode_value
```

```
# Find the unique values in the 'Medical.Conditions' column
unique_values <- unique(data$Medical.Conditions)
```

```
# Exclude "No Data" from unique values
other_values <- unique_values[unique_values != "No Data"]
```

```
# Replace "No Data" with random values from other categories
data$Medical.Conditions[data$Medical.Conditions == "No Data"] <- sample(other_values, sum(data$Medical.
```

```
# Print unique values after replacement
unique_values <- unique(data$Medical.Conditions)
print(unique_values)
```

```
## [1] "Ringworm"      "Eczema"          "Dermatosis"
## [4] "Psoriasis"     "Dermatitis"      "Alopecia Areata "
## [7] "Scalp Infection" "Seborrheic Dermatitis" "Thyroid Problems"
## [10] "Androgenetic Alopecia"
```

```

# Find the unique values in the 'Medical.Conditions' column
unique_values <- unique(data$Medications...Treatments)

# Exclude "No Data" from unique values
other_values <- unique_values[unique_values != "No Data"]

# Replace "No Data" with random values from other categories
data$Medications...Treatments[data$Medications...Treatments == "No Data"] <- sample(other_values, sum(d

# Print unique values after replacement
unique_values <- unique(data$Medications...Treatments)
print(unique_values)

```

```

## [1] "Accutane" "Antibiotics"
## [3] "Antifungal Cream" "Rogaine"
## [5] "Chemotherapy" "Steroids"
## [7] "Blood Pressure Medication" "Immunomodulators"
## [9] "Antidepressants " "Heart Medication "

```

```

# Find the unique values in the 'Medical.Conditions' column
unique_values <- unique(data$Nutritional.Deficiencies)

# Exclude "No Data" from unique values
other_values <- unique_values[unique_values != "No Data"]

# Replace "No Data" with random values from other categories
data$Nutritional.Deficiencies[data$Nutritional.Deficiencies == "No Data"] <- sample(other_values, sum(d

# Print unique values after replacement
unique_values <- unique(data$Nutritional.Deficiencies)
print(unique_values)

```

```

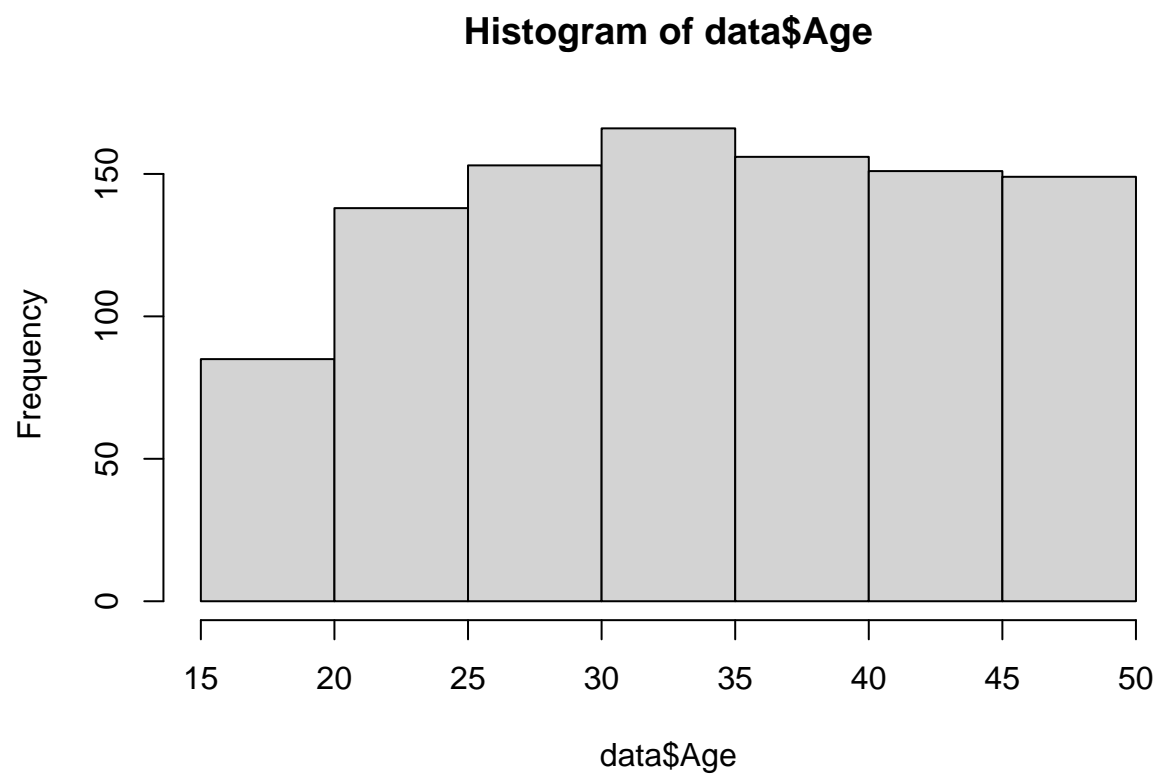
## [1] "Magnesium deficiency" "Protein deficiency" "Biotin Deficiency "
## [4] "Iron deficiency" "Selenium deficiency" "Omega-3 fatty acids"
## [7] "Zinc Deficiency" "Vitamin A Deficiency" "Vitamin D Deficiency"
## [10] "Vitamin E deficiency"

```

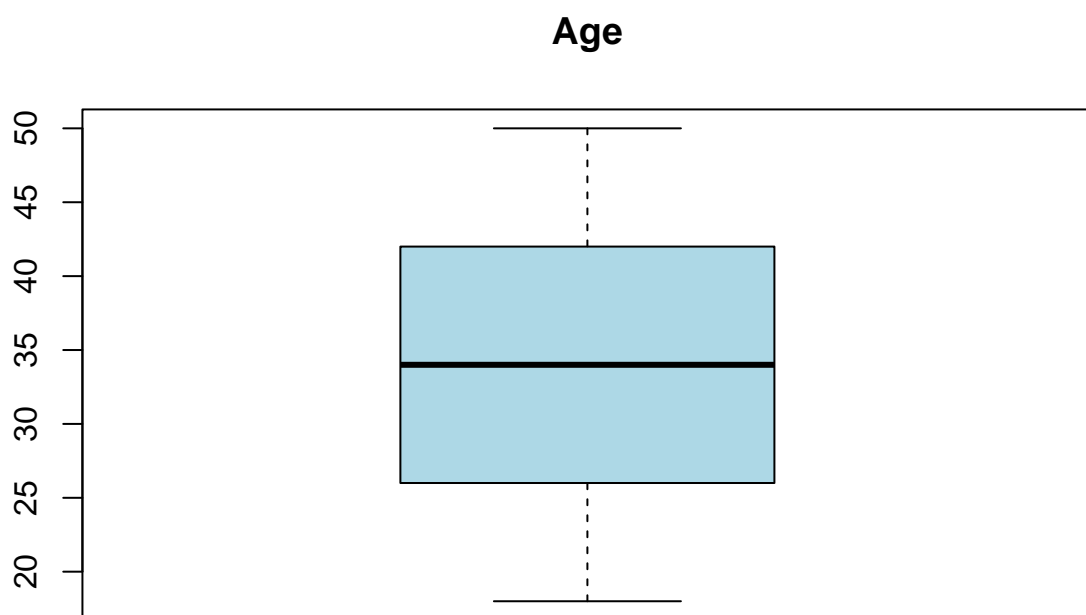
```

hist(data$Age)

```

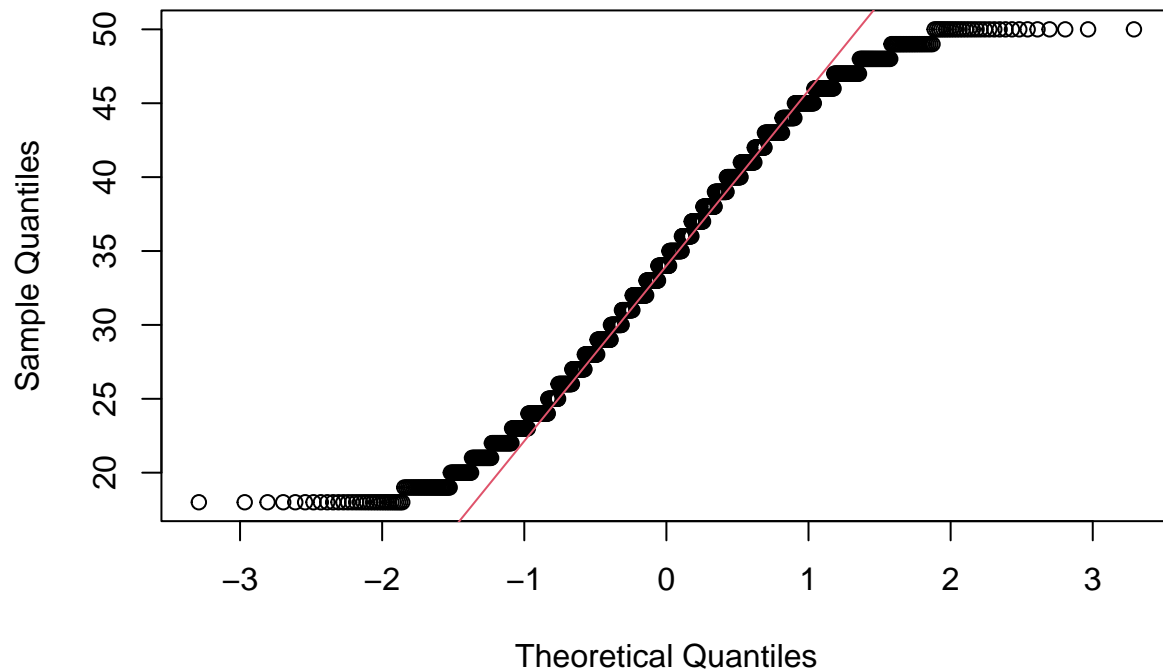


```
boxplot(data$Age, main = "Age", col = "lightblue", border = "black", notch = FALSE)
```



```
# Q-Q Plot  
qqnorm(data$Age)  
qqline(data$Age, col = 2)
```

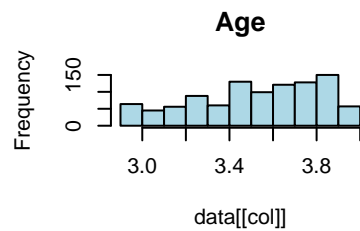

Normal Q-Q Plot



```
# Shapiro-Wilk Test for Normality  
shapiro.test(data$Age)
```

```
##  
##  Shapiro-Wilk normality test  
##  
## data:  data$Age  
## W = 0.95763, p-value < 2.2e-16
```

```
columns_to_transform <- c(  
  "Age"  
)  
  
for (col in columns_to_transform) {  
  data[[col]] <- ifelse(data[[col]] > 0, log(data[[col]] + 1), 0)  
}  
  
par(mfrow = c(3, 3))  
for (col in columns_to_transform) {  
  hist(data[[col]], main = col, col = "lightblue", border = "black")  
}
```



```
# Create a list to store the results and interpretations
chi_square_results <- list()

# Loop through each independent variable and perform chi-square test
independent_variables <- c("Genetics", "Hormonal.Changes", "Medical.Conditions", "Medications...Treatment")
for (variable in independent_variables) {
  # Convert the independent variable to a factor if it's not already
  data[[variable]] <- factor(data[[variable]])

  # Perform chi-square test for independence
  chi_square_result <- chisq.test(data[[variable]], data$Hair.Loss)

  # Store the result in the list
  chi_square_results[[variable]] <- chi_square_result

  # Print the interpretation
  cat("Chi-square test for", variable, ":\n")
  print(chi_square_result)
  if (chi_square_result$p.value < 0.05) {
    cat("There is a significant association between", variable, "and Hair Loss.\n")
  } else {
    cat("There is no significant association between", variable, "and Hair Loss.\n")
  }
  cat("\n")
}
}
```

```

## Chi-square test for Genetics :
##
## Pearson's Chi-squared test with Yates' continuity correction
##
## data: data[[variable]] and data$Hair.Loss
## X-squared = 1.47, df = 1, p-value = 0.2253
##
## There is no significant association between Genetics and Hair Loss.
##
## Chi-square test for Hormonal.Changes :
##
## Pearson's Chi-squared test with Yates' continuity correction
##
## data: data[[variable]] and data$Hair.Loss
## X-squared = 0.037549, df = 1, p-value = 0.8464
##
## There is no significant association between Hormonal.Changes and Hair Loss.
##
## Chi-square test for Medical.Conditions :
##
## Pearson's Chi-squared test
##
## data: data[[variable]] and data$Hair.Loss
## X-squared = 5.8218, df = 9, p-value = 0.7576
##
## There is no significant association between Medical.Conditions and Hair Loss.
##
## Chi-square test for Medications...Treatments :
##
## Pearson's Chi-squared test
##
## data: data[[variable]] and data$Hair.Loss
## X-squared = 3.8485, df = 9, p-value = 0.9211
##
## There is no significant association between Medications...Treatments and Hair Loss.
##
## Chi-square test for Nutritional.Deficiencies :
##
## Pearson's Chi-squared test
##
## data: data[[variable]] and data$Hair.Loss
## X-squared = 2.7645, df = 9, p-value = 0.9729
##
## There is no significant association between Nutritional.Deficiencies and Hair Loss.
##
## Chi-square test for Stress :
##
## Pearson's Chi-squared test
##
## data: data[[variable]] and data$Hair.Loss
## X-squared = 1.0057, df = 2, p-value = 0.6048
##
## There is no significant association between Stress and Hair Loss.
##

```

```
## Chi-square test for Poor.Hair.Care.Habits :
##
## Pearson's Chi-squared test with Yates' continuity correction
##
## data: data[[variable]] and data$Hair.Loss
## X-squared = 1.4547, df = 1, p-value = 0.2278
##
## There is no significant association between Poor.Hair.Care.Habits and Hair Loss.
##
## Chi-square test for Environmental.Factors :
##
## Pearson's Chi-squared test with Yates' continuity correction
##
## data: data[[variable]] and data$Hair.Loss
## X-squared = 0.25315, df = 1, p-value = 0.6149
##
## There is no significant association between Environmental.Factors and Hair Loss.
##
## Chi-square test for Smoking :
##
## Pearson's Chi-squared test with Yates' continuity correction
##
## data: data[[variable]] and data$Hair.Loss
## X-squared = 2.9006, df = 1, p-value = 0.08854
##
## There is no significant association between Smoking and Hair Loss.
##
## Chi-square test for Weight.Loss :
##
## Pearson's Chi-squared test with Yates' continuity correction
##
## data: data[[variable]] and data$Hair.Loss
## X-squared = 1.7449, df = 1, p-value = 0.1865
##
## There is no significant association between Weight.Loss and Hair Loss.
```

```
# Create a list to store the results and interpretations
fisher_results <- list()

# Loop through each independent variable and perform Fisher's exact test with simulation
for (variable in independent_variables) {
  # Create a contingency table
  contingency_table <- table(data[[variable]], data$Hair.Loss)

  # Perform Fisher's exact test with simulation
  fisher_result <- fisher.test(contingency_table, simulate.p.value = TRUE)

  # Store the result in the list
  fisher_results[[variable]] <- fisher_result

  # Print the interpretation
  cat("Fisher's exact test for", variable, ":\n")
  print(fisher_result)
  if (fisher_result$p.value < 0.05) {
```

```

    cat("There is a significant association between", variable, "and Hair Loss.\n")
  } else {
    cat("There is no significant association between", variable, "and Hair Loss.\n")
  }
  cat("\n")
}

```

```

## Fisher's exact test for Genetics :
##
## Fisher's Exact Test for Count Data
##
## data: contingency_table
## p-value = 0.2057
## alternative hypothesis: true odds ratio is not equal to 1
## 95 percent confidence interval:
## 0.9097136 1.5192393
## sample estimates:
## odds ratio
## 1.175421
##
## There is no significant association between Genetics and Hair Loss.
##
## Fisher's exact test for Hormonal.Changes :
##
## Fisher's Exact Test for Count Data
##
## data: contingency_table
## p-value = 0.8004
## alternative hypothesis: true odds ratio is not equal to 1
## 95 percent confidence interval:
## 0.7997347 1.3345272
## sample estimates:
## odds ratio
## 1.033079
##
## There is no significant association between Hormonal.Changes and Hair Loss.
##
## Fisher's exact test for Medical.Conditions :
##
## Fisher's Exact Test for Count Data with simulated p-value (based on
## 2000 replicates)
##
## data: contingency_table
## p-value = 0.7561
## alternative hypothesis: two.sided
##
## There is no significant association between Medical.Conditions and Hair Loss.
##
## Fisher's exact test for Medications...Treatments :
##
## Fisher's Exact Test for Count Data with simulated p-value (based on
## 2000 replicates)
##

```

```

## data: contingency_table
## p-value = 0.9225
## alternative hypothesis: two.sided
##
## There is no significant association between Medications...Treatments and Hair Loss.
##
## Fisher's exact test for Nutritional.Deficiencies :
##
## Fisher's Exact Test for Count Data with simulated p-value (based on
## 2000 replicates)
##
## data: contingency_table
## p-value = 0.972
## alternative hypothesis: two.sided
##
## There is no significant association between Nutritional.Deficiencies and Hair Loss.
##
## Fisher's exact test for Stress :
##
## Fisher's Exact Test for Count Data with simulated p-value (based on
## 2000 replicates)
##
## data: contingency_table
## p-value = 0.6242
## alternative hypothesis: two.sided
##
## There is no significant association between Stress and Hair Loss.
##
## Fisher's exact test for Poor.Hair.Care.Habits :
##
## Fisher's Exact Test for Count Data
##
## data: contingency_table
## p-value = 0.2062
## alternative hypothesis: true odds ratio is not equal to 1
## 95 percent confidence interval:
## 0.658952 1.100044
## sample estimates:
## odds ratio
## 0.8515681
##
## There is no significant association between Poor.Hair.Care.Habits and Hair Loss.
##
## Fisher's exact test for Environmental.Factors :
##
## Fisher's Exact Test for Count Data
##
## data: contingency_table
## p-value = 0.6125
## alternative hypothesis: true odds ratio is not equal to 1
## 95 percent confidence interval:
## 0.7204868 1.2023644
## sample estimates:
## odds ratio

```

```
## 0.9308366
##
## There is no significant association between Environmental.Factors and Hair Loss.
##
## Fisher's exact test for Smoking :
##
## Fisher's Exact Test for Count Data
##
## data: contingency_table
## p-value = 0.08709
## alternative hypothesis: true odds ratio is not equal to 1
## 95 percent confidence interval:
## 0.6183381 1.0330166
## sample estimates:
## odds ratio
## 0.7994367
##
## There is no significant association between Smoking and Hair Loss.
##
## Fisher's exact test for Weight.Loss :
##
## Fisher's Exact Test for Count Data
##
## data: contingency_table
## p-value = 0.183
## alternative hypothesis: true odds ratio is not equal to 1
## 95 percent confidence interval:
## 0.9222742 1.5408157
## sample estimates:
## odds ratio
## 1.19183
##
## There is no significant association between Weight.Loss and Hair Loss.
```

```
# Count occurrences of each unique value in the "Hair.Loss" column
hair_loss_counts <- table(data$Hair.Loss)

# Print the counts
print(hair_loss_counts)
```

```
##
## 0 1
## 502 496
```

```
model <- glm(Hair.Loss ~ Age + Genetics + Hormonal.Changes + Medical.Conditions +
  Nutritional.Deficiencies + Stress + Poor.Hair.Care.Habits + Environmental.Factors +
  Smoking + Weight.Loss,
  data = data, family = binomial(link = "logit"))

summary(model)
```

```
##
## Call:
```

```
## glm(formula = Hair.Loss ~ Age + Genetics + Hormonal.Changes +
##     Medical.Conditions + Nutritional.Deficiencies + Stress +
##     Poor.Hair.Care.Habits + Environmental.Factors + Smoking +
##     Weight.Loss, family = binomial(link = "logit"), data = data)
##
## Coefficients:
##
##               Estimate Std. Error z value
## (Intercept)      1.456042   0.872055   1.670
## Age             -0.397494   0.229720  -1.730
## GeneticsYes       0.175040   0.129667   1.350
## Hormonal.ChangesYes 0.021328   0.130300   0.164
## Medical.ConditionsAndrogenetic Alopecia 0.005995   0.272419   0.022
## Medical.ConditionsDermatitis -0.380182   0.274616  -1.384
## Medical.ConditionsDermatosis -0.279103   0.282532  -0.988
## Medical.ConditionsEczema -0.352974   0.300009  -1.177
## Medical.ConditionsPsoriasis -0.256361   0.273323  -0.938
## Medical.ConditionsRingworm -0.378221   0.293247  -1.290
## Medical.ConditionsScalp Infection -0.375501   0.284284  -1.321
## Medical.ConditionsSeborrheic Dermatitis -0.006435   0.273057  -0.024
## Medical.ConditionsThyroid Problems -0.381734   0.269097  -1.419
## Nutritional.DeficienciesIron deficiency 0.038804   0.293423   0.132
## Nutritional.DeficienciesMagnesium deficiency 0.362982   0.294858   1.231
## Nutritional.DeficienciesOmega-3 fatty acids 0.042582   0.283763   0.150
## Nutritional.DeficienciesProtein deficiency 0.185330   0.285763   0.649
## Nutritional.DeficienciesSelenium deficiency 0.179608   0.292573   0.614
## Nutritional.DeficienciesVitamin A Deficiency 0.129168   0.280646   0.460
## Nutritional.DeficienciesVitamin D Deficiency 0.114266   0.277390   0.412
## Nutritional.DeficienciesVitamin E deficiency 0.059453   0.289489   0.205
## Nutritional.DeficienciesZinc Deficiency 0.103537   0.274616   0.377
## StressLow        0.012087   0.160706   0.075
## StressModerate    0.157536   0.158805   0.992
## Poor.Hair.Care.HabitsYes -0.155862   0.129850  -1.200
## Environmental.FactorsYes -0.030545   0.130045  -0.235
## SmokingYes       -0.232963   0.129722  -1.796
## Weight.LossYes    0.200188   0.129319   1.548
##
##               Pr(>|z|)
## (Intercept)      0.0950 .
## Age             0.0836 .
## GeneticsYes      0.1770
## Hormonal.ChangesYes 0.8700
## Medical.ConditionsAndrogenetic Alopecia 0.9824
## Medical.ConditionsDermatitis 0.1662
## Medical.ConditionsDermatosis 0.3232
## Medical.ConditionsEczema 0.2394
## Medical.ConditionsPsoriasis 0.3483
## Medical.ConditionsRingworm 0.1971
## Medical.ConditionsScalp Infection 0.1865
## Medical.ConditionsSeborrheic Dermatitis 0.9812
## Medical.ConditionsThyroid Problems 0.1560
## Nutritional.DeficienciesIron deficiency 0.8948
## Nutritional.DeficienciesMagnesium deficiency 0.2183
## Nutritional.DeficienciesOmega-3 fatty acids 0.8807
## Nutritional.DeficienciesProtein deficiency 0.5166
## Nutritional.DeficienciesSelenium deficiency 0.5393
```



```
## Nutritional.DeficienciesVitamin A Deficiency    0.6453
## Nutritional.DeficienciesVitamin D Deficiency    0.6804
## Nutritional.DeficienciesVitamin E deficiency    0.8373
## Nutritional.DeficienciesZinc Deficiency          0.7062
## StressLow                                       0.9400
## StressModerate                                 0.3212
## Poor.Hair.Care.HabitsYes                        0.2300
## Environmental.FactorsYes                       0.8143
## SmokingYes                                     0.0725 .
## Weight.LossYes                                0.1216
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
## Null deviance: 1383.5  on 997  degrees of freedom
## Residual deviance: 1362.0  on 970  degrees of freedom
## AIC: 1418
##
## Number of Fisher Scoring iterations: 4
```

```
# Convert 'Hair.Loss' to a factor
data$Hair.Loss <- factor(data$Hair.Loss)

# Perform chi-square test for each categorical variable and store p-values
p_values <- sapply(names(data), function(variable) {
  if (is.factor(data[[variable]]) && variable != "Hair.Loss") {
    chi_square_result <- chisq.test(data[[variable]], data$Hair.Loss)
    return(chi_square_result$p.value)
  } else {
    return(NA) # Ignore non-categorical variables
  }
})

# Select the top 5 variables with the lowest p-values
top_5_features <- names(sort(p_values, decreasing = FALSE))[1:5]

# Print the top 5 features
print(top_5_features)
```

```
## [1] "Smoking"          "Weight.Loss"      "Genetics"
## [4] "Poor.Hair.Care.Habits" "Stress"
```

```
model <- glm(Hair.Loss ~ Smoking + Weight.Loss + Genetics + Poor.Hair.Care.Habits + Medical.Conditions,
             data = data, family = binomial(link = "logit"))

summary(model)
```

```
##
## Call:
## glm(formula = Hair.Loss ~ Smoking + Weight.Loss + Genetics +
##      Poor.Hair.Care.Habits + Medical.Conditions, family = binomial(link = "logit"),
##      data = data)
```

```
##
## Coefficients:
##
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)      0.241312   0.225386   1.071   0.2843
## SmokingYes      -0.227033   0.128287  -1.770   0.0768
## Weight.LossYes   0.198689   0.128208   1.550   0.1212
## GeneticsYes      0.170529   0.128112   1.331   0.1832
## Poor.Hair.Care.HabitsYes -0.157861   0.128171  -1.232   0.2181
## Medical.ConditionsAndrogenetic Alopecia -0.004354   0.269902  -0.016   0.9871
## Medical.ConditionsDermatitis -0.378938   0.272339  -1.391   0.1641
## Medical.ConditionsDermatosis -0.257862   0.279364  -0.923   0.3560
## Medical.ConditionsEczema -0.344346   0.297050  -1.159   0.2464
## Medical.ConditionsPsoriasis -0.266868   0.270150  -0.988   0.3232
## Medical.ConditionsRingworm -0.389470   0.290796  -1.339   0.1805
## Medical.ConditionsScalp Infection -0.402308   0.282359  -1.425   0.1542
## Medical.ConditionsSeborrheic Dermatitis -0.050085   0.270908  -0.185   0.8533
## Medical.ConditionsThyroid Problems -0.418345   0.266718  -1.568   0.1168
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 1383.5  on 997  degrees of freedom
## Residual deviance: 1368.7  on 984  degrees of freedom
## AIC: 1396.7
##
## Number of Fisher Scoring iterations: 4
```

```
# Assuming 'data' is your dataframe
```

```
# Convert 'Genetics' to one-hot encoding
```

```
data$Genetics_Yes <- as.integer(data$Genetics == "Yes")
```

```
data$Genetics_No <- as.integer(data$Genetics == "No")
```

```
# Rename the columns
```

```
colnames(data)[colnames(data) == "Genetics_Yes"] <- "Genetics_Yes"
```

```
colnames(data)[colnames(data) == "Genetics_No"] <- "Genetics_No"
```

```
data <- subset(data, select = -c(Genetics))
```

```
# Convert 'Smoking' to one-hot encoding
```

```
data$Smoking_Yes <- as.integer(data$Smoking == "Yes")
```

```
data$Smoking_No <- as.integer(data$Smoking == "No")
```

```
# Rename the columns
```

```
colnames(data)[colnames(data) == "Smoking_Yes"] <- "Smoking_Yes"
```

```
colnames(data)[colnames(data) == "Smoking_No"] <- "Smoking_No"
```

```
data <- subset(data, select = -c(Smoking))
```

```
data
```

```
##      Hormonal.Changes      Medical.Conditions      Medications...Treatments
```

## 1	No	Ringworm	Accutane
## 2	No	Eczema	Antibiotics
## 3	No	Dermatosis	Antifungal Cream
## 4	Yes	Ringworm	Antibiotics
## 5	No	Psoriasis	Accutane
## 6	No	Psoriasis	Antibiotics
## 7	Yes	Dermatitis	Rogaine
## 8	No	Dermatosis	Chemotherapy
## 9	No	Eczema	Steroids
## 10	Yes	Ringworm	Rogaine
## 11	Yes	Eczema	Blood Pressure Medication
## 12	Yes	Alopecia Areata	Accutane
## 13	Yes	Scalp Infection	Immunomodulators
## 14	No	Psoriasis	Antibiotics
## 15	No	Eczema	Antibiotics
## 16	Yes	Scalp Infection	Rogaine
## 17	No	Seborrheic Dermatitis	Antidepressants
## 18	Yes	Dermatosis	Antibiotics
## 19	Yes	Dermatosis	Accutane
## 20	Yes	Seborrheic Dermatitis	Chemotherapy
## 21	Yes	Seborrheic Dermatitis	Accutane
## 22	No	Dermatosis	Chemotherapy
## 23	Yes	Psoriasis	Antibiotics
## 24	Yes	Scalp Infection	Antidepressants
## 25	Yes	Dermatitis	Antibiotics
## 26	Yes	Dermatosis	Heart Medication
## 27	Yes	Dermatosis	Immunomodulators
## 28	Yes	Seborrheic Dermatitis	Antifungal Cream
## 29	Yes	Thyroid Problems	Chemotherapy
## 30	Yes	Dermatitis	Chemotherapy
## 31	No	Dermatosis	Chemotherapy
## 32	Yes	Dermatitis	Antibiotics
## 33	No	Dermatitis	Steroids
## 34	No	Ringworm	Steroids
## 35	Yes	Scalp Infection	Antidepressants
## 36	Yes	Dermatitis	Chemotherapy
## 37	Yes	Alopecia Areata	Antibiotics
## 38	No	Eczema	Heart Medication
## 39	Yes	Scalp Infection	Chemotherapy
## 40	Yes	Seborrheic Dermatitis	Steroids
## 41	No	Seborrheic Dermatitis	Chemotherapy
## 42	Yes	Dermatosis	Immunomodulators
## 43	No	Alopecia Areata	Accutane
## 44	No	Dermatosis	Blood Pressure Medication
## 45	Yes	Thyroid Problems	Rogaine
## 46	No	Androgenetic Alopecia	Accutane
## 47	Yes	Androgenetic Alopecia	Steroids
## 48	No	Seborrheic Dermatitis	Steroids
## 49	No	Dermatosis	Blood Pressure Medication
## 50	No	Scalp Infection	Immunomodulators
## 51	Yes	Androgenetic Alopecia	Rogaine
## 52	No	Psoriasis	Blood Pressure Medication
## 53	Yes	Seborrheic Dermatitis	Antibiotics
## 54	Yes	Androgenetic Alopecia	Heart Medication

## 55	Yes	Alopecia Areata	Blood Pressure Medication
## 56	No	Thyroid Problems	Steroids
## 57	No	Ringworm	Blood Pressure Medication
## 58	Yes	Thyroid Problems	Antidepressants
## 59	Yes	Seborrheic Dermatitis	Antifungal Cream
## 60	No	Androgenetic Alopecia	Chemotherapy
## 61	No	Scalp Infection	Antidepressants
## 62	No	Dermatitis	Rogaine
## 63	No	Psoriasis	Chemotherapy
## 64	Yes	Dermatitis	Antidepressants
## 65	Yes	Dermatosis	Rogaine
## 66	Yes	Dermatitis	Antidepressants
## 67	No	Dermatosis	Blood Pressure Medication
## 68	Yes	Seborrheic Dermatitis	Antibiotics
## 69	No	Thyroid Problems	Accutane
## 70	No	Seborrheic Dermatitis	Heart Medication
## 71	No	Alopecia Areata	Steroids
## 72	No	Psoriasis	Chemotherapy
## 73	Yes	Dermatosis	Heart Medication
## 74	No	Psoriasis	Antidepressants
## 75	Yes	Seborrheic Dermatitis	Blood Pressure Medication
## 76	Yes	Androgenetic Alopecia	Antifungal Cream
## 77	No	Seborrheic Dermatitis	Immunomodulators
## 78	Yes	Ringworm	Heart Medication
## 79	Yes	Dermatosis	Accutane
## 80	No	Thyroid Problems	Immunomodulators
## 81	No	Androgenetic Alopecia	Blood Pressure Medication
## 82	Yes	Seborrheic Dermatitis	Accutane
## 83	Yes	Androgenetic Alopecia	Antifungal Cream
## 84	Yes	Scalp Infection	Antifungal Cream
## 85	No	Ringworm	Antifungal Cream
## 86	Yes	Seborrheic Dermatitis	Blood Pressure Medication
## 87	No	Ringworm	Steroids
## 88	Yes	Dermatitis	Steroids
## 89	No	Dermatosis	Antidepressants
## 90	Yes	Androgenetic Alopecia	Heart Medication
## 91	Yes	Alopecia Areata	Rogaine
## 92	No	Seborrheic Dermatitis	Blood Pressure Medication
## 93	No	Psoriasis	Antibiotics
## 94	No	Dermatitis	Steroids
## 95	Yes	Seborrheic Dermatitis	Antibiotics
## 96	Yes	Dermatosis	Antifungal Cream
## 97	Yes	Seborrheic Dermatitis	Immunomodulators
## 98	No	Thyroid Problems	Steroids
## 99	No	Ringworm	Heart Medication
## 100	Yes	Seborrheic Dermatitis	Rogaine
## 101	Yes	Androgenetic Alopecia	Antifungal Cream
## 102	Yes	Ringworm	Heart Medication
## 103	No	Psoriasis	Blood Pressure Medication
## 104	Yes	Psoriasis	Antifungal Cream
## 105	Yes	Thyroid Problems	Steroids
## 106	No	Alopecia Areata	Antidepressants
## 107	Yes	Thyroid Problems	Antidepressants
## 108	No	Ringworm	Steroids

## 109	Yes	Ringworm	Antidepressants
## 110	No	Psoriasis	Accutane
## 111	Yes	Ringworm	Immunomodulators
## 112	Yes	Seborrheic Dermatitis	Antibiotics
## 113	Yes	Alopecia Areata	Antifungal Cream
## 114	Yes	Alopecia Areata	Antifungal Cream
## 115	Yes	Androgenetic Alopecia	Blood Pressure Medication
## 116	Yes	Psoriasis	Chemotherapy
## 117	No	Thyroid Problems	Antibiotics
## 118	No	Androgenetic Alopecia	Antidepressants
## 119	Yes	Androgenetic Alopecia	Heart Medication
## 120	Yes	Eczema	Antidepressants
## 121	No	Dermatitis	Antifungal Cream
## 122	No	Psoriasis	Antifungal Cream
## 123	No	Eczema	Chemotherapy
## 124	No	Scalp Infection	Antidepressants
## 125	Yes	Psoriasis	Chemotherapy
## 126	Yes	Alopecia Areata	Steroids
## 127	No	Dermatosis	Antidepressants
## 128	No	Eczema	Antibiotics
## 129	Yes	Thyroid Problems	Heart Medication
## 130	No	Seborrheic Dermatitis	Steroids
## 131	No	Psoriasis	Antibiotics
## 132	No	Thyroid Problems	Accutane
## 133	Yes	Androgenetic Alopecia	Chemotherapy
## 134	Yes	Androgenetic Alopecia	Antibiotics
## 135	No	Thyroid Problems	Antifungal Cream
## 136	No	Seborrheic Dermatitis	Steroids
## 137	No	Ringworm	Heart Medication
## 138	No	Dermatosis	Antidepressants
## 139	No	Androgenetic Alopecia	Heart Medication
## 140	No	Psoriasis	Heart Medication
## 141	No	Scalp Infection	Chemotherapy
## 142	Yes	Androgenetic Alopecia	Chemotherapy
## 143	No	Scalp Infection	Rogaine
## 144	No	Psoriasis	Rogaine
## 145	No	Androgenetic Alopecia	Antidepressants
## 146	Yes	Dermatitis	Heart Medication
## 147	No	Dermatitis	Accutane
## 148	Yes	Psoriasis	Antidepressants
## 149	Yes	Dermatitis	Chemotherapy
## 150	No	Seborrheic Dermatitis	Antidepressants
## 151	Yes	Seborrheic Dermatitis	Steroids
## 152	Yes	Thyroid Problems	Antidepressants
## 153	No	Scalp Infection	Immunomodulators
## 154	Yes	Androgenetic Alopecia	Rogaine
## 155	No	Thyroid Problems	Chemotherapy
## 156	Yes	Androgenetic Alopecia	Steroids
## 157	Yes	Eczema	Antidepressants
## 158	No	Thyroid Problems	Rogaine
## 159	No	Seborrheic Dermatitis	Steroids
## 160	No	Eczema	Antifungal Cream
## 161	No	Alopecia Areata	Antidepressants
## 162	No	Androgenetic Alopecia	Rogaine

## 163	No	Androgenetic Alopecia	Accutane
## 164	No	Dermatosis	Heart Medication
## 165	No	Dermatosis	Immunomodulators
## 166	No	Psoriasis	Antibiotics
## 167	No	Seborrheic Dermatitis	Rogaine
## 168	Yes	Scalp Infection	Rogaine
## 169	No	Seborrheic Dermatitis	Blood Pressure Medication
## 170	No	Androgenetic Alopecia	Antidepressants
## 171	Yes	Psoriasis	Accutane
## 172	No	Psoriasis	Antifungal Cream
## 173	Yes	Alopecia Areata	Heart Medication
## 174	No	Dermatosis	Blood Pressure Medication
## 175	No	Androgenetic Alopecia	Antibiotics
## 176	No	Psoriasis	Heart Medication
## 177	No	Thyroid Problems	Steroids
## 178	No	Alopecia Areata	Immunomodulators
## 179	No	Dermatosis	Antifungal Cream
## 180	No	Androgenetic Alopecia	Antidepressants
## 181	Yes	Dermatosis	Antibiotics
## 182	No	Alopecia Areata	Antifungal Cream
## 183	Yes	Ringworm	Rogaine
## 184	No	Thyroid Problems	Steroids
## 185	Yes	Ringworm	Heart Medication
## 186	No	Thyroid Problems	Rogaine
## 187	No	Dermatitis	Antifungal Cream
## 188	Yes	Seborrheic Dermatitis	Heart Medication
## 189	No	Thyroid Problems	Antidepressants
## 190	No	Ringworm	Immunomodulators
## 191	No	Scalp Infection	Antifungal Cream
## 192	No	Dermatosis	Rogaine
## 193	No	Alopecia Areata	Antifungal Cream
## 194	No	Psoriasis	Heart Medication
## 195	Yes	Alopecia Areata	Immunomodulators
## 196	No	Androgenetic Alopecia	Immunomodulators
## 197	No	Alopecia Areata	Chemotherapy
## 198	No	Androgenetic Alopecia	Immunomodulators
## 199	Yes	Thyroid Problems	Antibiotics
## 200	No	Alopecia Areata	Antifungal Cream
## 201	Yes	Scalp Infection	Rogaine
## 202	Yes	Eczema	Heart Medication
## 203	No	Androgenetic Alopecia	Immunomodulators
## 204	Yes	Eczema	Steroids
## 205	Yes	Ringworm	Heart Medication
## 206	Yes	Androgenetic Alopecia	Antibiotics
## 207	Yes	Seborrheic Dermatitis	Antifungal Cream
## 208	No	Ringworm	Accutane
## 209	No	Thyroid Problems	Blood Pressure Medication
## 210	No	Psoriasis	Steroids
## 211	Yes	Scalp Infection	Blood Pressure Medication
## 212	Yes	Alopecia Areata	Steroids
## 213	No	Seborrheic Dermatitis	Antidepressants
## 214	No	Eczema	Heart Medication
## 215	Yes	Thyroid Problems	Heart Medication
## 216	Yes	Dermatosis	Chemotherapy

## 217	Yes	Scalp Infection	Chemotherapy
## 218	Yes	Thyroid Problems	Accutane
## 219	Yes	Scalp Infection	Blood Pressure Medication
## 220	Yes	Dermatitis	Heart Medication
## 221	Yes	Androgenetic Alopecia	Chemotherapy
## 222	Yes	Alopecia Areata	Immunomodulators
## 223	Yes	Thyroid Problems	Heart Medication
## 224	Yes	Thyroid Problems	Chemotherapy
## 225	Yes	Psoriasis	Rogaine
## 226	Yes	Seborrheic Dermatitis	Chemotherapy
## 227	Yes	Psoriasis	Immunomodulators
## 228	No	Ringworm	Immunomodulators
## 229	No	Alopecia Areata	Antibiotics
## 230	Yes	Thyroid Problems	Accutane
## 231	No	Eczema	Heart Medication
## 232	Yes	Androgenetic Alopecia	Rogaine
## 233	No	Scalp Infection	Antifungal Cream
## 234	Yes	Androgenetic Alopecia	Rogaine
## 235	Yes	Androgenetic Alopecia	Antifungal Cream
## 236	Yes	Ringworm	Rogaine
## 237	Yes	Seborrheic Dermatitis	Rogaine
## 238	No	Dermatosis	Rogaine
## 239	Yes	Dermatitis	Accutane
## 240	No	Eczema	Antidepressants
## 241	Yes	Thyroid Problems	Antidepressants
## 242	Yes	Dermatitis	Chemotherapy
## 243	No	Androgenetic Alopecia	Antifungal Cream
## 244	No	Seborrheic Dermatitis	Accutane
## 245	Yes	Alopecia Areata	Steroids
## 246	Yes	Androgenetic Alopecia	Rogaine
## 247	No	Eczema	Steroids
## 248	No	Scalp Infection	Immunomodulators
## 249	Yes	Thyroid Problems	Accutane
## 250	Yes	Seborrheic Dermatitis	Antifungal Cream
## 251	Yes	Seborrheic Dermatitis	Antibiotics
## 252	Yes	Androgenetic Alopecia	Chemotherapy
## 253	No	Dermatitis	Rogaine
## 254	No	Alopecia Areata	Accutane
## 255	No	Thyroid Problems	Accutane
## 256	Yes	Alopecia Areata	Blood Pressure Medication
## 257	No	Eczema	Antidepressants
## 258	No	Dermatitis	Steroids
## 259	Yes	Seborrheic Dermatitis	Steroids
## 260	No	Alopecia Areata	Accutane
## 261	No	Dermatitis	Blood Pressure Medication
## 262	Yes	Eczema	Immunomodulators
## 263	No	Scalp Infection	Rogaine
## 264	No	Scalp Infection	Chemotherapy
## 265	Yes	Thyroid Problems	Immunomodulators
## 266	Yes	Ringworm	Immunomodulators
## 267	No	Dermatosis	Rogaine
## 268	Yes	Dermatosis	Blood Pressure Medication
## 269	Yes	Scalp Infection	Rogaine
## 270	No	Ringworm	Heart Medication

## 271	Yes	Androgenetic Alopecia	Antidepressants
## 272	Yes	Scalp Infection	Antifungal Cream
## 273	No	Seborrheic Dermatitis	Immunomodulators
## 274	No	Dermatosis	Accutane
## 275	Yes	Scalp Infection	Blood Pressure Medication
## 276	No	Thyroid Problems	Steroids
## 277	Yes	Eczema	Antibiotics
## 278	Yes	Dermatosis	Steroids
## 279	Yes	Eczema	Rogaine
## 280	No	Scalp Infection	Steroids
## 281	Yes	Dermatitis	Rogaine
## 282	Yes	Scalp Infection	Antidepressants
## 283	No	Dermatitis	Rogaine
## 284	No	Thyroid Problems	Accutane
## 285	No	Eczema	Steroids
## 286	No	Alopecia Areata	Immunomodulators
## 287	No	Psoriasis	Chemotherapy
## 288	No	Thyroid Problems	Steroids
## 289	No	Thyroid Problems	Heart Medication
## 290	Yes	Dermatitis	Heart Medication
## 291	Yes	Eczema	Rogaine
## 292	No	Psoriasis	Steroids
## 293	No	Thyroid Problems	Rogaine
## 294	Yes	Eczema	Chemotherapy
## 295	No	Thyroid Problems	Heart Medication
## 296	Yes	Thyroid Problems	Heart Medication
## 297	Yes	Seborrheic Dermatitis	Antidepressants
## 298	Yes	Scalp Infection	Steroids
## 299	Yes	Ringworm	Steroids
## 300	Yes	Alopecia Areata	Blood Pressure Medication
## 301	Yes	Ringworm	Accutane
## 302	Yes	Thyroid Problems	Accutane
## 303	Yes	Eczema	Antifungal Cream
## 304	No	Dermatitis	Antifungal Cream
## 305	No	Scalp Infection	Antidepressants
## 306	Yes	Dermatosis	Heart Medication
## 307	Yes	Alopecia Areata	Antibiotics
## 308	Yes	Scalp Infection	Chemotherapy
## 309	Yes	Alopecia Areata	Accutane
## 310	No	Eczema	Heart Medication
## 311	No	Dermatitis	Immunomodulators
## 312	Yes	Seborrheic Dermatitis	Antifungal Cream
## 313	Yes	Dermatitis	Antidepressants
## 314	Yes	Scalp Infection	Steroids
## 315	Yes	Dermatosis	Antifungal Cream
## 316	No	Androgenetic Alopecia	Accutane
## 317	Yes	Androgenetic Alopecia	Rogaine
## 318	Yes	Scalp Infection	Antifungal Cream
## 319	No	Androgenetic Alopecia	Antifungal Cream
## 320	Yes	Dermatitis	Heart Medication
## 321	Yes	Androgenetic Alopecia	Accutane
## 322	Yes	Alopecia Areata	Heart Medication
## 323	Yes	Dermatitis	Blood Pressure Medication
## 324	No	Androgenetic Alopecia	Accutane

## 325	Yes	Androgenetic Alopecia	Antidepressants
## 326	No	Psoriasis	Rogaine
## 327	Yes	Thyroid Problems	Antibiotics
## 328	No	Psoriasis	Antidepressants
## 329	No	Eczema	Accutane
## 330	No	Androgenetic Alopecia	Rogaine
## 331	Yes	Thyroid Problems	Heart Medication
## 332	Yes	Scalp Infection	Blood Pressure Medication
## 333	Yes	Androgenetic Alopecia	Rogaine
## 334	Yes	Seborrheic Dermatitis	Antibiotics
## 335	No	Psoriasis	Accutane
## 336	Yes	Scalp Infection	Antibiotics
## 337	Yes	Psoriasis	Blood Pressure Medication
## 338	Yes	Thyroid Problems	Blood Pressure Medication
## 339	Yes	Psoriasis	Blood Pressure Medication
## 340	Yes	Ringworm	Blood Pressure Medication
## 341	Yes	Dermatosis	Chemotherapy
## 342	Yes	Androgenetic Alopecia	Antifungal Cream
## 343	Yes	Alopecia Areata	Accutane
## 344	No	Thyroid Problems	Heart Medication
## 345	Yes	Androgenetic Alopecia	Steroids
## 346	Yes	Alopecia Areata	Heart Medication
## 347	Yes	Dermatitis	Antidepressants
## 348	No	Alopecia Areata	Accutane
## 349	Yes	Scalp Infection	Accutane
## 350	Yes	Dermatosis	Antifungal Cream
## 351	No	Eczema	Steroids
## 352	Yes	Thyroid Problems	Rogaine
## 353	Yes	Seborrheic Dermatitis	Accutane
## 354	Yes	Dermatitis	Chemotherapy
## 355	No	Seborrheic Dermatitis	Chemotherapy
## 356	Yes	Alopecia Areata	Immunomodulators
## 357	No	Eczema	Chemotherapy
## 358	Yes	Eczema	Blood Pressure Medication
## 359	Yes	Psoriasis	Blood Pressure Medication
## 360	No	Dermatitis	Antibiotics
## 361	Yes	Scalp Infection	Antidepressants
## 362	No	Dermatitis	Chemotherapy
## 363	No	Thyroid Problems	Antidepressants
## 364	No	Seborrheic Dermatitis	Accutane
## 365	Yes	Dermatosis	Antidepressants
## 366	No	Androgenetic Alopecia	Chemotherapy
## 367	No	Psoriasis	Antibiotics
## 368	Yes	Psoriasis	Heart Medication
## 369	No	Alopecia Areata	Antibiotics
## 370	No	Seborrheic Dermatitis	Rogaine
## 371	Yes	Seborrheic Dermatitis	Accutane
## 372	Yes	Psoriasis	Immunomodulators
## 373	No	Psoriasis	Blood Pressure Medication
## 374	No	Ringworm	Chemotherapy
## 375	No	Psoriasis	Chemotherapy
## 376	No	Ringworm	Antidepressants
## 377	No	Seborrheic Dermatitis	Antibiotics
## 378	Yes	Alopecia Areata	Rogaine

## 379	No	Alopecia Areata	Blood Pressure Medication
## 380	Yes	Psoriasis	Heart Medication
## 381	Yes	Ringworm	Immunomodulators
## 382	Yes	Dermatosis	Steroids
## 383	Yes	Thyroid Problems	Steroids
## 384	Yes	Thyroid Problems	Accutane
## 385	Yes	Psoriasis	Rogaine
## 386	Yes	Dermatitis	Antifungal Cream
## 387	Yes	Eczema	Chemotherapy
## 388	No	Psoriasis	Blood Pressure Medication
## 389	No	Thyroid Problems	Antifungal Cream
## 390	Yes	Dermatitis	Antifungal Cream
## 391	No	Seborrheic Dermatitis	Antifungal Cream
## 392	No	Ringworm	Rogaine
## 393	No	Dermatosis	Accutane
## 394	Yes	Psoriasis	Rogaine
## 395	Yes	Thyroid Problems	Chemotherapy
## 396	No	Scalp Infection	Accutane
## 397	Yes	Androgenetic Alopecia	Blood Pressure Medication
## 398	No	Androgenetic Alopecia	Antidepressants
## 399	Yes	Androgenetic Alopecia	Antibiotics
## 400	Yes	Dermatosis	Steroids
## 401	No	Thyroid Problems	Antidepressants
## 402	Yes	Alopecia Areata	Antifungal Cream
## 403	No	Alopecia Areata	Chemotherapy
## 404	Yes	Androgenetic Alopecia	Steroids
## 405	No	Alopecia Areata	Chemotherapy
## 406	No	Ringworm	Heart Medication
## 408	Yes	Thyroid Problems	Antibiotics
## 409	No	Psoriasis	Immunomodulators
## 410	Yes	Alopecia Areata	Accutane
## 411	No	Scalp Infection	Heart Medication
## 412	No	Scalp Infection	Rogaine
## 413	No	Dermatitis	Antidepressants
## 414	No	Eczema	Blood Pressure Medication
## 415	No	Thyroid Problems	Rogaine
## 416	No	Dermatitis	Rogaine
## 417	Yes	Eczema	Blood Pressure Medication
## 418	Yes	Dermatosis	Antidepressants
## 419	No	Androgenetic Alopecia	Antibiotics
## 420	Yes	Seborrheic Dermatitis	Rogaine
## 421	Yes	Androgenetic Alopecia	Accutane
## 422	No	Eczema	Antibiotics
## 423	No	Psoriasis	Steroids
## 424	Yes	Scalp Infection	Rogaine
## 425	No	Ringworm	Steroids
## 426	Yes	Psoriasis	Immunomodulators
## 427	No	Eczema	Immunomodulators
## 428	No	Psoriasis	Steroids
## 429	No	Androgenetic Alopecia	Antifungal Cream
## 430	No	Seborrheic Dermatitis	Chemotherapy
## 431	No	Thyroid Problems	Rogaine
## 432	Yes	Alopecia Areata	Chemotherapy
## 433	No	Alopecia Areata	Immunomodulators

## 434	No	Thyroid Problems	Accutane
## 435	Yes	Thyroid Problems Blood Pressure Medication	
## 436	Yes	Alopecia Areata	Accutane
## 437	No	Psoriasis	Accutane
## 438	Yes	Scalp Infection	Rogaine
## 439	Yes	Dermatosis	Heart Medication
## 440	Yes	Psoriasis	Heart Medication
## 441	Yes	Thyroid Problems	Antibiotics
## 442	Yes	Scalp Infection	Accutane
## 443	No	Thyroid Problems	Accutane
## 444	Yes	Alopecia Areata	Heart Medication
## 445	No	Dermatitis	Antifungal Cream
## 446	No	Ringworm	Antibiotics
## 447	No	Eczema	Steroids
## 448	Yes	Eczema	Rogaine
## 449	Yes	Ringworm	Heart Medication
## 450	No	Thyroid Problems	Accutane
## 451	No	Psoriasis	Heart Medication
## 452	No	Thyroid Problems Blood Pressure Medication	
## 453	No	Dermatitis	Accutane
## 454	Yes	Thyroid Problems	Heart Medication
## 455	No	Dermatosis	Antidepressants
## 456	No	Thyroid Problems Blood Pressure Medication	
## 457	No	Eczema	Rogaine
## 458	No	Psoriasis	Steroids
## 459	Yes	Dermatosis	Heart Medication
## 460	Yes	Dermatosis	Antidepressants
## 461	Yes	Scalp Infection	Accutane
## 462	Yes	Ringworm	Heart Medication
## 463	No	Thyroid Problems	Steroids
## 464	Yes	Dermatosis	Antibiotics
## 465	Yes	Alopecia Areata	Rogaine
## 466	Yes	Ringworm	Accutane
## 467	Yes	Ringworm	Chemotherapy
## 468	No	Seborrheic Dermatitis	Heart Medication
## 469	No	Psoriasis	Accutane
## 470	Yes	Dermatitis	Antidepressants
## 471	Yes	Seborrheic Dermatitis	Accutane
## 472	Yes	Dermatosis	Rogaine
## 473	No	Thyroid Problems	Antifungal Cream
## 474	Yes	Ringworm	Antibiotics
## 475	No	Dermatosis Blood Pressure Medication	
## 476	No	Eczema	Steroids
## 477	No	Scalp Infection	Steroids
## 478	Yes	Seborrheic Dermatitis	Immunomodulators
## 479	Yes	Androgenetic Alopecia	Antidepressants
## 480	Yes	Ringworm	Chemotherapy
## 481	Yes	Scalp Infection	Rogaine
## 482	No	Alopecia Areata	Antibiotics
## 483	No	Thyroid Problems Blood Pressure Medication	
## 484	No	Alopecia Areata Blood Pressure Medication	
## 485	No	Alopecia Areata	Antifungal Cream
## 486	No	Scalp Infection	Antifungal Cream
## 487	Yes	Alopecia Areata Blood Pressure Medication	

## 488	Yes	Dermatitis	Antibiotics
## 489	No	Alopecia Areata	Antifungal Cream
## 490	No	Thyroid Problems	Antifungal Cream
## 491	No	Scalp Infection	Heart Medication
## 492	No	Dermatitis	Blood Pressure Medication
## 493	Yes	Ringworm	Steroids
## 494	No	Thyroid Problems	Chemotherapy
## 495	No	Seborrheic Dermatitis	Steroids
## 496	No	Dermatitis	Antidepressants
## 497	Yes	Ringworm	Rogaine
## 498	No	Eczema	Steroids
## 499	No	Seborrheic Dermatitis	Immunomodulators
## 500	Yes	Androgenetic Alopecia	Immunomodulators
## 501	No	Alopecia Areata	Steroids
## 502	Yes	Androgenetic Alopecia	Heart Medication
## 503	No	Alopecia Areata	Chemotherapy
## 504	Yes	Ringworm	Antibiotics
## 505	No	Thyroid Problems	Antidepressants
## 506	No	Psoriasis	Blood Pressure Medication
## 507	No	Dermatitis	Immunomodulators
## 508	No	Dermatitis	Accutane
## 509	No	Ringworm	Steroids
## 510	Yes	Alopecia Areata	Antidepressants
## 511	No	Psoriasis	Steroids
## 512	No	Ringworm	Chemotherapy
## 513	Yes	Scalp Infection	Heart Medication
## 514	No	Seborrheic Dermatitis	Steroids
## 515	No	Seborrheic Dermatitis	Blood Pressure Medication
## 516	No	Thyroid Problems	Blood Pressure Medication
## 517	Yes	Ringworm	Heart Medication
## 518	Yes	Dermatitis	Antidepressants
## 519	Yes	Seborrheic Dermatitis	Blood Pressure Medication
## 520	Yes	Dermatitis	Heart Medication
## 521	No	Androgenetic Alopecia	Heart Medication
## 522	No	Ringworm	Rogaine
## 523	Yes	Psoriasis	Rogaine
## 524	Yes	Psoriasis	Antidepressants
## 525	No	Dermatitis	Rogaine
## 526	No	Dermatitis	Immunomodulators
## 527	Yes	Scalp Infection	Steroids
## 528	Yes	Dermatitis	Immunomodulators
## 529	No	Seborrheic Dermatitis	Accutane
## 530	Yes	Thyroid Problems	Antidepressants
## 531	Yes	Androgenetic Alopecia	Rogaine
## 532	Yes	Androgenetic Alopecia	Antidepressants
## 533	No	Seborrheic Dermatitis	Heart Medication
## 534	No	Thyroid Problems	Antifungal Cream
## 535	Yes	Alopecia Areata	Antifungal Cream
## 536	Yes	Psoriasis	Antifungal Cream
## 537	No	Alopecia Areata	Accutane
## 538	No	Dermatosis	Antidepressants
## 539	No	Androgenetic Alopecia	Heart Medication
## 540	No	Thyroid Problems	Rogaine
## 541	No	Seborrheic Dermatitis	Rogaine

## 542	Yes	Alopecia Areata	Accutane
## 543	No	Androgenetic Alopecia	Immunomodulators
## 544	Yes	Eczema	Antidepressants
## 545	No	Dermatosis	Immunomodulators
## 546	Yes	Seborrheic Dermatitis	Antidepressants
## 547	No	Scalp Infection	Immunomodulators
## 548	Yes	Dermatosis	Chemotherapy
## 549	Yes	Thyroid Problems	Rogaine
## 550	Yes	Androgenetic Alopecia	Heart Medication
## 551	No	Dermatosis	Steroids
## 552	No	Scalp Infection	Steroids
## 553	Yes	Androgenetic Alopecia	Antifungal Cream
## 554	Yes	Dermatitis	Immunomodulators
## 555	Yes	Scalp Infection	Steroids
## 556	Yes	Alopecia Areata	Heart Medication
## 557	No	Ringworm	Antidepressants
## 558	No	Psoriasis	Immunomodulators
## 559	No	Psoriasis	Steroids
## 560	Yes	Psoriasis	Rogaine
## 561	No	Psoriasis	Antidepressants
## 562	No	Androgenetic Alopecia	Rogaine
## 563	Yes	Dermatitis	Rogaine
## 564	No	Alopecia Areata	Chemotherapy
## 565	No	Ringworm	Accutane
## 566	Yes	Thyroid Problems	Antidepressants
## 567	No	Thyroid Problems	Immunomodulators
## 568	No	Androgenetic Alopecia	Antibiotics
## 569	Yes	Ringworm	Chemotherapy
## 570	No	Psoriasis	Blood Pressure Medication
## 571	No	Thyroid Problems	Accutane
## 572	Yes	Thyroid Problems	Chemotherapy
## 573	Yes	Eczema	Chemotherapy
## 574	Yes	Dermatosis	Blood Pressure Medication
## 575	Yes	Seborrheic Dermatitis	Accutane
## 576	Yes	Androgenetic Alopecia	Immunomodulators
## 577	No	Thyroid Problems	Blood Pressure Medication
## 578	No	Psoriasis	Accutane
## 579	Yes	Dermatitis	Antibiotics
## 580	No	Eczema	Antibiotics
## 581	Yes	Seborrheic Dermatitis	Antidepressants
## 582	No	Ringworm	Antidepressants
## 583	No	Eczema	Antidepressants
## 584	No	Ringworm	Blood Pressure Medication
## 585	Yes	Androgenetic Alopecia	Immunomodulators
## 586	Yes	Seborrheic Dermatitis	Antifungal Cream
## 587	Yes	Alopecia Areata	Antibiotics
## 588	No	Dermatitis	Heart Medication
## 589	No	Psoriasis	Heart Medication
## 590	No	Scalp Infection	Antibiotics
## 591	No	Dermatosis	Rogaine
## 592	No	Scalp Infection	Chemotherapy
## 593	No	Psoriasis	Antidepressants
## 594	Yes	Thyroid Problems	Antidepressants
## 595	No	Scalp Infection	Antibiotics

## 596	Yes	Androgenetic Alopecia	Blood Pressure Medication
## 597	Yes	Androgenetic Alopecia	Antibiotics
## 598	Yes	Alopecia Areata	Blood Pressure Medication
## 599	No	Androgenetic Alopecia	Immunomodulators
## 600	Yes	Ringworm	Steroids
## 601	No	Thyroid Problems	Accutane
## 602	Yes	Thyroid Problems	Blood Pressure Medication
## 603	Yes	Eczema	Steroids
## 604	Yes	Thyroid Problems	Chemotherapy
## 605	No	Scalp Infection	Antifungal Cream
## 606	Yes	Dermatitis	Steroids
## 607	No	Dermatosis	Rogaine
## 608	Yes	Dermatitis	Immunomodulators
## 609	No	Seborrheic Dermatitis	Steroids
## 610	Yes	Dermatosis	Rogaine
## 611	No	Alopecia Areata	Blood Pressure Medication
## 612	No	Eczema	Blood Pressure Medication
## 613	No	Psoriasis	Immunomodulators
## 614	No	Dermatosis	Steroids
## 615	No	Scalp Infection	Accutane
## 616	Yes	Dermatitis	Chemotherapy
## 617	Yes	Scalp Infection	Heart Medication
## 618	No	Ringworm	Chemotherapy
## 619	Yes	Seborrheic Dermatitis	Rogaine
## 620	Yes	Dermatitis	Antifungal Cream
## 621	No	Eczema	Rogaine
## 622	Yes	Ringworm	Heart Medication
## 623	Yes	Ringworm	Steroids
## 624	No	Ringworm	Accutane
## 625	No	Seborrheic Dermatitis	Immunomodulators
## 626	Yes	Seborrheic Dermatitis	Antifungal Cream
## 627	No	Dermatitis	Heart Medication
## 628	Yes	Dermatosis	Antifungal Cream
## 629	No	Androgenetic Alopecia	Blood Pressure Medication
## 630	No	Eczema	Rogaine
## 631	No	Seborrheic Dermatitis	Rogaine
## 632	Yes	Alopecia Areata	Antidepressants
## 633	Yes	Eczema	Antifungal Cream
## 634	No	Alopecia Areata	Antifungal Cream
## 635	Yes	Androgenetic Alopecia	Chemotherapy
## 636	Yes	Scalp Infection	Antifungal Cream
## 637	No	Alopecia Areata	Antifungal Cream
## 638	No	Psoriasis	Steroids
## 639	Yes	Dermatosis	Antidepressants
## 640	Yes	Scalp Infection	Heart Medication
## 641	No	Dermatosis	Blood Pressure Medication
## 642	No	Alopecia Areata	Antidepressants
## 643	Yes	Eczema	Chemotherapy
## 644	No	Dermatosis	Heart Medication
## 645	No	Psoriasis	Immunomodulators
## 646	Yes	Psoriasis	Blood Pressure Medication
## 647	Yes	Seborrheic Dermatitis	Steroids
## 648	No	Ringworm	Blood Pressure Medication
## 649	No	Psoriasis	Antibiotics

## 650	Yes	Dermatitis	Accutane
## 651	No	Ringworm	Antibiotics
## 652	No	Eczema	Immunomodulators
## 653	Yes	Thyroid Problems	Immunomodulators
## 654	No	Seborrheic Dermatitis	Accutane
## 655	Yes	Dermatitis	Antibiotics
## 656	Yes	Seborrheic Dermatitis	Antibiotics
## 657	Yes	Psoriasis	Immunomodulators
## 658	Yes	Alopecia Areata	Antidepressants
## 659	No	Seborrheic Dermatitis	Heart Medication
## 660	Yes	Psoriasis	Accutane
## 661	Yes	Dermatitis	Immunomodulators
## 662	Yes	Eczema	Steroids
## 663	No	Thyroid Problems	Antibiotics
## 664	Yes	Alopecia Areata	Rogaine
## 665	Yes	Alopecia Areata	Antidepressants
## 666	Yes	Dermatitis	Antidepressants
## 667	Yes	Seborrheic Dermatitis	Steroids
## 668	No	Androgenetic Alopecia	Steroids
## 669	Yes	Androgenetic Alopecia	Chemotherapy
## 670	No	Seborrheic Dermatitis	Blood Pressure Medication
## 671	Yes	Dermatitis	Antibiotics
## 672	Yes	Psoriasis	Antibiotics
## 673	Yes	Dermatitis	Accutane
## 674	No	Androgenetic Alopecia	Antibiotics
## 675	No	Scalp Infection	Antidepressants
## 676	Yes	Dermatosis	Antibiotics
## 677	No	Seborrheic Dermatitis	Immunomodulators
## 678	No	Thyroid Problems	Accutane
## 679	No	Seborrheic Dermatitis	Rogaine
## 680	Yes	Alopecia Areata	Chemotherapy
## 681	No	Ringworm	Antifungal Cream
## 682	Yes	Scalp Infection	Antibiotics
## 683	No	Scalp Infection	Steroids
## 684	No	Seborrheic Dermatitis	Accutane
## 685	Yes	Thyroid Problems	Heart Medication
## 686	No	Scalp Infection	Steroids
## 687	No	Dermatitis	Rogaine
## 688	No	Psoriasis	Blood Pressure Medication
## 689	No	Psoriasis	Antibiotics
## 690	Yes	Seborrheic Dermatitis	Antidepressants
## 691	No	Dermatosis	Antifungal Cream
## 692	No	Androgenetic Alopecia	Antifungal Cream
## 693	No	Alopecia Areata	Antibiotics
## 694	Yes	Seborrheic Dermatitis	Steroids
## 695	No	Eczema	Heart Medication
## 696	No	Dermatitis	Heart Medication
## 697	Yes	Psoriasis	Antidepressants
## 698	No	Eczema	Antibiotics
## 699	Yes	Alopecia Areata	Chemotherapy
## 700	No	Psoriasis	Rogaine
## 701	No	Seborrheic Dermatitis	Antidepressants
## 702	No	Psoriasis	Blood Pressure Medication
## 703	Yes	Psoriasis	Accutane

## 704	No	Scalp Infection	Rogaine
## 705	No	Alopecia Areata	Immunomodulators
## 706	Yes	Ringworm	Antibiotics
## 707	No	Ringworm	Antidepressants
## 708	No	Dermatosis	Rogaine
## 709	Yes	Scalp Infection	Immunomodulators
## 710	Yes	Psoriasis	Rogaine
## 711	Yes	Ringworm	Antifungal Cream
## 712	Yes	Dermatosis	Antibiotics
## 713	Yes	Thyroid Problems	Heart Medication
## 714	No	Eczema	Antibiotics
## 715	No	Dermatitis	Steroids
## 716	Yes	Ringworm	Immunomodulators
## 717	Yes	Alopecia Areata	Antidepressants
## 718	No	Scalp Infection	Chemotherapy
## 719	No	Eczema	Heart Medication
## 720	No	Androgenetic Alopecia	Antifungal Cream
## 721	No	Ringworm	Steroids
## 722	No	Dermatosis	Rogaine
## 723	No	Ringworm	Blood Pressure Medication
## 724	No	Scalp Infection	Rogaine
## 725	Yes	Dermatitis	Blood Pressure Medication
## 726	Yes	Alopecia Areata	Antibiotics
## 727	No	Scalp Infection	Blood Pressure Medication
## 728	Yes	Seborrheic Dermatitis	Antibiotics
## 729	No	Dermatitis	Accutane
## 730	Yes	Seborrheic Dermatitis	Antifungal Cream
## 731	Yes	Alopecia Areata	Immunomodulators
## 732	No	Psoriasis	Steroids
## 733	Yes	Seborrheic Dermatitis	Accutane
## 734	Yes	Thyroid Problems	Steroids
## 735	No	Eczema	Antidepressants
## 736	Yes	Dermatitis	Antibiotics
## 737	No	Thyroid Problems	Accutane
## 738	No	Seborrheic Dermatitis	Immunomodulators
## 739	Yes	Ringworm	Antibiotics
## 740	No	Scalp Infection	Chemotherapy
## 741	No	Alopecia Areata	Blood Pressure Medication
## 742	No	Psoriasis	Antibiotics
## 743	Yes	Thyroid Problems	Chemotherapy
## 744	No	Alopecia Areata	Rogaine
## 745	No	Alopecia Areata	Antidepressants
## 746	No	Dermatitis	Antifungal Cream
## 747	Yes	Dermatosis	Rogaine
## 748	Yes	Dermatitis	Heart Medication
## 749	No	Eczema	Steroids
## 750	Yes	Dermatitis	Rogaine
## 751	No	Psoriasis	Immunomodulators
## 752	Yes	Psoriasis	Antifungal Cream
## 753	No	Scalp Infection	Steroids
## 754	Yes	Psoriasis	Chemotherapy
## 755	Yes	Scalp Infection	Chemotherapy
## 756	Yes	Thyroid Problems	Chemotherapy
## 757	Yes	Scalp Infection	Rogaine

## 758	Yes	Psoriasis	Chemotherapy
## 759	No	Eczema	Heart Medication
## 760	No	Dermatitis	Antifungal Cream
## 761	No	Ringworm	Immunomodulators
## 762	Yes	Psoriasis	Accutane
## 763	No	Seborrheic Dermatitis	Blood Pressure Medication
## 764	No	Dermatitis	Antidepressants
## 765	Yes	Psoriasis	Steroids
## 766	Yes	Dermatosis	Chemotherapy
## 767	No	Scalp Infection	Antidepressants
## 768	No	Scalp Infection	Accutane
## 769	Yes	Alopecia Areata	Accutane
## 770	No	Androgenetic Alopecia	Heart Medication
## 771	Yes	Dermatosis	Antidepressants
## 772	Yes	Alopecia Areata	Accutane
## 773	Yes	Androgenetic Alopecia	Rogaine
## 774	Yes	Dermatitis	Accutane
## 775	No	Thyroid Problems	Steroids
## 776	Yes	Scalp Infection	Antifungal Cream
## 777	No	Scalp Infection	Blood Pressure Medication
## 778	No	Dermatitis	Accutane
## 779	No	Ringworm	Steroids
## 780	Yes	Ringworm	Heart Medication
## 781	Yes	Dermatosis	Antifungal Cream
## 782	Yes	Dermatosis	Heart Medication
## 783	Yes	Seborrheic Dermatitis	Accutane
## 784	No	Thyroid Problems	Antibiotics
## 785	No	Dermatitis	Blood Pressure Medication
## 786	Yes	Eczema	Immunomodulators
## 787	No	Thyroid Problems	Heart Medication
## 788	Yes	Seborrheic Dermatitis	Blood Pressure Medication
## 789	No	Dermatosis	Antidepressants
## 790	No	Thyroid Problems	Steroids
## 791	Yes	Seborrheic Dermatitis	Immunomodulators
## 792	No	Dermatosis	Rogaine
## 793	No	Dermatitis	Steroids
## 794	Yes	Psoriasis	Steroids
## 795	Yes	Eczema	Immunomodulators
## 796	Yes	Eczema	Blood Pressure Medication
## 797	No	Androgenetic Alopecia	Immunomodulators
## 798	No	Dermatitis	Steroids
## 799	No	Dermatosis	Accutane
## 800	Yes	Scalp Infection	Steroids
## 801	Yes	Psoriasis	Blood Pressure Medication
## 802	No	Alopecia Areata	Heart Medication
## 803	Yes	Androgenetic Alopecia	Accutane
## 804	No	Alopecia Areata	Accutane
## 805	No	Androgenetic Alopecia	Accutane
## 806	No	Alopecia Areata	Blood Pressure Medication
## 807	No	Ringworm	Chemotherapy
## 808	Yes	Androgenetic Alopecia	Immunomodulators
## 809	No	Dermatosis	Heart Medication
## 810	No	Androgenetic Alopecia	Immunomodulators
## 811	Yes	Alopecia Areata	Antidepressants

## 812	Yes	Alopecia Areata	Antifungal Cream
## 813	Yes	Alopecia Areata	Rogaine
## 814	Yes	Alopecia Areata	Steroids
## 815	Yes	Dermatitis	Heart Medication
## 816	No	Seborrheic Dermatitis	Steroids
## 817	Yes	Dermatitis	Accutane
## 818	No	Seborrheic Dermatitis	Heart Medication
## 819	Yes	Dermatosis	Antibiotics
## 820	Yes	Seborrheic Dermatitis	Rogaine
## 821	Yes	Dermatosis	Rogaine
## 822	Yes	Scalp Infection	Rogaine
## 823	Yes	Alopecia Areata	Antibiotics
## 824	Yes	Scalp Infection	Blood Pressure Medication
## 825	Yes	Eczema	Antibiotics
## 826	Yes	Psoriasis	Chemotherapy
## 827	Yes	Psoriasis	Steroids
## 828	Yes	Scalp Infection	Immunomodulators
## 829	Yes	Androgenetic Alopecia	Chemotherapy
## 830	Yes	Dermatitis	Antifungal Cream
## 831	Yes	Eczema	Blood Pressure Medication
## 832	No	Dermatitis	Blood Pressure Medication
## 833	No	Dermatosis	Antifungal Cream
## 834	Yes	Dermatosis	Accutane
## 835	No	Seborrheic Dermatitis	Chemotherapy
## 836	Yes	Thyroid Problems	Steroids
## 837	Yes	Eczema	Antidepressants
## 838	No	Seborrheic Dermatitis	Accutane
## 839	No	Alopecia Areata	Antidepressants
## 840	No	Psoriasis	Antifungal Cream
## 841	Yes	Eczema	Chemotherapy
## 842	Yes	Seborrheic Dermatitis	Heart Medication
## 843	Yes	Dermatitis	Antifungal Cream
## 844	Yes	Dermatitis	Steroids
## 845	Yes	Dermatitis	Steroids
## 846	Yes	Ringworm	Antibiotics
## 847	Yes	Alopecia Areata	Steroids
## 848	Yes	Ringworm	Antifungal Cream
## 849	No	Dermatitis	Antibiotics
## 850	Yes	Dermatitis	Antifungal Cream
## 851	Yes	Dermatosis	Blood Pressure Medication
## 852	No	Thyroid Problems	Steroids
## 853	No	Ringworm	Antidepressants
## 854	No	Alopecia Areata	Accutane
## 855	No	Seborrheic Dermatitis	Antidepressants
## 856	Yes	Thyroid Problems	Heart Medication
## 857	Yes	Thyroid Problems	Antifungal Cream
## 858	Yes	Thyroid Problems	Antidepressants
## 859	Yes	Eczema	Rogaine
## 860	No	Seborrheic Dermatitis	Immunomodulators
## 861	No	Seborrheic Dermatitis	Immunomodulators
## 862	No	Dermatitis	Blood Pressure Medication
## 863	Yes	Androgenetic Alopecia	Rogaine
## 864	No	Dermatosis	Rogaine
## 865	No	Dermatitis	Chemotherapy

## 866	No	Dermatosis	Immunomodulators
## 867	Yes	Alopecia Areata	Accutane
## 868	No	Thyroid Problems	Chemotherapy
## 869	Yes	Dermatitis	Rogaine
## 870	No	Dermatosis	Rogaine
## 871	Yes	Androgenetic Alopecia	Steroids
## 872	No	Dermatitis	Rogaine
## 873	Yes	Thyroid Problems	Heart Medication
## 874	No	Androgenetic Alopecia	Chemotherapy
## 875	Yes	Seborrheic Dermatitis	Immunomodulators
## 876	No	Eczema	Antidepressants
## 877	No	Alopecia Areata	Antidepressants
## 878	Yes	Alopecia Areata	Blood Pressure Medication
## 879	Yes	Eczema	Antibiotics
## 880	Yes	Dermatitis	Heart Medication
## 881	Yes	Scalp Infection	Antidepressants
## 882	Yes	Alopecia Areata	Steroids
## 883	No	Thyroid Problems	Antibiotics
## 884	Yes	Alopecia Areata	Immunomodulators
## 885	Yes	Ringworm	Rogaine
## 886	Yes	Psoriasis	Steroids
## 887	No	Alopecia Areata	Antifungal Cream
## 888	Yes	Androgenetic Alopecia	Immunomodulators
## 889	No	Seborrheic Dermatitis	Immunomodulators
## 890	No	Alopecia Areata	Rogaine
## 891	No	Dermatosis	Heart Medication
## 892	No	Scalp Infection	Antidepressants
## 893	Yes	Ringworm	Blood Pressure Medication
## 894	Yes	Dermatosis	Antibiotics
## 895	Yes	Androgenetic Alopecia	Rogaine
## 896	No	Dermatitis	Immunomodulators
## 897	Yes	Eczema	Antidepressants
## 898	No	Psoriasis	Antidepressants
## 899	Yes	Thyroid Problems	Antifungal Cream
## 900	Yes	Androgenetic Alopecia	Immunomodulators
## 901	Yes	Psoriasis	Antifungal Cream
## 902	No	Ringworm	Antidepressants
## 903	Yes	Thyroid Problems	Blood Pressure Medication
## 904	No	Androgenetic Alopecia	Rogaine
## 905	No	Alopecia Areata	Immunomodulators
## 906	Yes	Thyroid Problems	Rogaine
## 907	Yes	Alopecia Areata	Heart Medication
## 908	Yes	Eczema	Accutane
## 909	Yes	Androgenetic Alopecia	Antifungal Cream
## 910	No	Scalp Infection	Antidepressants
## 911	Yes	Alopecia Areata	Heart Medication
## 912	Yes	Alopecia Areata	Accutane
## 913	Yes	Dermatitis	Immunomodulators
## 914	No	Thyroid Problems	Blood Pressure Medication
## 915	Yes	Dermatosis	Heart Medication
## 916	Yes	Dermatitis	Heart Medication
## 917	Yes	Dermatosis	Chemotherapy
## 918	No	Alopecia Areata	Antidepressants
## 919	Yes	Eczema	Accutane

## 920	Yes	Alopecia Areata	Rogaine
## 921	No	Dermatosis	Antibiotics
## 922	Yes	Alopecia Areata	Rogaine
## 923	No	Dermatitis	Antidepressants
## 924	No	Dermatosis	Heart Medication
## 925	Yes	Seborrheic Dermatitis	Accutane
## 926	No	Alopecia Areata	Immunomodulators
## 927	Yes	Dermatosis	Rogaine
## 928	Yes	Scalp Infection	Blood Pressure Medication
## 929	Yes	Psoriasis	Antibiotics
## 930	No	Scalp Infection	Accutane
## 931	No	Alopecia Areata	Rogaine
## 932	Yes	Ringworm	Blood Pressure Medication
## 933	No	Eczema	Heart Medication
## 934	Yes	Psoriasis	Antibiotics
## 935	No	Ringworm	Heart Medication
## 936	No	Androgenetic Alopecia	Antifungal Cream
## 937	No	Androgenetic Alopecia	Antidepressants
## 938	Yes	Thyroid Problems	Antifungal Cream
## 939	Yes	Seborrheic Dermatitis	Chemotherapy
## 940	No	Eczema	Chemotherapy
## 941	No	Alopecia Areata	Chemotherapy
## 942	No	Scalp Infection	Antidepressants
## 943	Yes	Eczema	Antibiotics
## 944	No	Ringworm	Rogaine
## 945	Yes	Dermatosis	Antifungal Cream
## 946	No	Dermatitis	Antibiotics
## 947	Yes	Ringworm	Antibiotics
## 948	Yes	Ringworm	Chemotherapy
## 949	No	Alopecia Areata	Steroids
## 950	No	Eczema	Antifungal Cream
## 951	Yes	Psoriasis	Antifungal Cream
## 952	Yes	Dermatosis	Accutane
## 953	Yes	Scalp Infection	Heart Medication
## 954	No	Alopecia Areata	Chemotherapy
## 955	No	Thyroid Problems	Accutane
## 956	No	Androgenetic Alopecia	Rogaine
## 957	Yes	Seborrheic Dermatitis	Chemotherapy
## 958	No	Androgenetic Alopecia	Heart Medication
## 959	No	Eczema	Heart Medication
## 960	No	Androgenetic Alopecia	Steroids
## 961	No	Scalp Infection	Rogaine
## 962	No	Thyroid Problems	Steroids
## 963	No	Thyroid Problems	Immunomodulators
## 964	No	Psoriasis	Heart Medication
## 965	No	Seborrheic Dermatitis	Immunomodulators
## 966	No	Psoriasis	Antidepressants
## 967	No	Alopecia Areata	Antifungal Cream
## 968	No	Androgenetic Alopecia	Chemotherapy
## 969	Yes	Androgenetic Alopecia	Chemotherapy
## 970	No	Thyroid Problems	Rogaine
## 971	Yes	Alopecia Areata	Antifungal Cream
## 972	No	Alopecia Areata	Antibiotics
## 973	Yes	Androgenetic Alopecia	Accutane

## 974	No	Psoriasis	Heart Medication
## 975	Yes	Scalp Infection	Immunomodulators
## 976	Yes	Dermatitis	Heart Medication
## 977	Yes	Psoriasis	Blood Pressure Medication
## 978	Yes	Alopecia Areata	Accutane
## 979	No	Dermatosis	Antibiotics
## 980	Yes	Psoriasis	Antifungal Cream
## 981	Yes	Dermatosis	Antidepressants
## 982	Yes	Dermatitis	Antibiotics
## 983	Yes	Psoriasis	Antifungal Cream
## 984	Yes	Thyroid Problems	Steroids
## 985	No	Androgenetic Alopecia	Antibiotics
## 986	No	Seborrheic Dermatitis	Blood Pressure Medication
## 987	Yes	Androgenetic Alopecia	Immunomodulators
## 988	Yes	Androgenetic Alopecia	Immunomodulators
## 989	No	Androgenetic Alopecia	Antibiotics
## 990	No	Ringworm	Rogaine
## 991	No	Alopecia Areata	Antidepressants
## 992	Yes	Thyroid Problems	Antidepressants
## 993	Yes	Dermatosis	Rogaine
## 994	Yes	Scalp Infection	Immunomodulators
## 995	No	Seborrheic Dermatitis	Rogaine
## 996	Yes	Alopecia Areata	Accutane
## 997	Yes	Androgenetic Alopecia	Antidepressants
## 998	Yes	Dermatitis	Immunomodulators
## 999	Yes	Psoriasis	Blood Pressure Medication
##	Nutritional Deficiencies	Stress	Age Poor.Hair.Care.Habits
## 1	Magnesium deficiency	Moderate	2.995732 Yes
## 2	Magnesium deficiency	High	3.784190 Yes
## 3	Protein deficiency	Moderate	3.295837 Yes
## 4	Biotin Deficiency	Moderate	3.850148 Yes
## 5	Iron deficiency	Moderate	3.433987 No
## 6	Magnesium deficiency	Low	3.637586 No
## 7	Selenium deficiency	High	3.713572 Yes
## 8	Omega-3 fatty acids	High	3.583519 Yes
## 9	Selenium deficiency	Moderate	2.995732 No
## 10	Magnesium deficiency	Moderate	3.912023 Yes
## 11	Biotin Deficiency	High	3.295837 Yes
## 12	Zinc Deficiency	High	3.891820 No
## 13	Biotin Deficiency	Moderate	3.044522 No
## 14	Vitamin A Deficiency	High	3.433987 Yes
## 15	Biotin Deficiency	High	3.555348 Yes
## 16	Vitamin D Deficiency	Moderate	3.401197 Yes
## 17	Vitamin D Deficiency	High	3.850148 Yes
## 18	Zinc Deficiency	Low	2.995732 Yes
## 19	Biotin Deficiency	Low	3.295837 No
## 20	Vitamin A Deficiency	High	3.850148 Yes
## 21	Protein deficiency	High	3.850148 No
## 22	Zinc Deficiency	High	3.044522 No
## 23	Vitamin D Deficiency	Low	3.401197 No
## 24	Vitamin D Deficiency	High	3.637586 No
## 25	Protein deficiency	High	3.526361 Yes
## 26	Vitamin A Deficiency	Moderate	3.555348 No
## 27	Selenium deficiency	High	3.367296 No

## 28	Zinc Deficiency	Low	3.737670	No
## 29	Omega-3 fatty acids	Low	3.583519	Yes
## 30	Selenium deficiency	Low	3.091042	Yes
## 31	Vitamin A Deficiency	High	3.135494	Yes
## 32	Iron deficiency	Moderate	3.828641	No
## 33	Protein deficiency	Moderate	3.433987	Yes
## 34	Selenium deficiency	High	3.218876	Yes
## 35	Vitamin D Deficiency	Moderate	3.465736	Yes
## 36	Zinc Deficiency	Low	3.433987	Yes
## 37	Biotin Deficiency	Low	3.688879	No
## 38	Iron deficiency	Low	3.091042	Yes
## 39	Zinc Deficiency	Low	3.218876	Yes
## 40	Omega-3 fatty acids	Moderate	3.663562	No
## 41	Vitamin E deficiency	High	2.995732	Yes
## 42	Magnesium deficiency	High	3.688879	No
## 43	Selenium deficiency	High	3.433987	No
## 44	Magnesium deficiency	Low	3.218876	No
## 45	Vitamin E deficiency	Low	3.637586	No
## 46	Iron deficiency	Moderate	3.610918	No
## 47	Vitamin A Deficiency	Moderate	3.891820	Yes
## 48	Zinc Deficiency	High	2.944439	No
## 49	Iron deficiency	High	2.944439	No
## 50	Vitamin A Deficiency	Moderate	3.663562	Yes
## 51	Vitamin D Deficiency	Moderate	3.850148	Yes
## 52	Vitamin A Deficiency	Low	3.688879	No
## 53	Protein deficiency	Moderate	3.465736	Yes
## 54	Omega-3 fatty acids	Low	3.367296	Yes
## 55	Iron deficiency	High	3.367296	Yes
## 56	Biotin Deficiency	Low	3.806662	Yes
## 57	Zinc Deficiency	Moderate	3.828641	No
## 58	Selenium deficiency	Low	3.091042	Yes
## 59	Omega-3 fatty acids	High	3.931826	No
## 60	Biotin Deficiency	Moderate	3.583519	No
## 61	Selenium deficiency	Low	3.931826	Yes
## 62	Zinc Deficiency	High	3.555348	Yes
## 63	Iron deficiency	Low	3.367296	Yes
## 64	Vitamin E deficiency	Moderate	3.332205	No
## 65	Magnesium deficiency	Low	3.583519	Yes
## 66	Vitamin D Deficiency	High	3.258097	Yes
## 67	Biotin Deficiency	Moderate	3.135494	Yes
## 68	Vitamin D Deficiency	Moderate	3.784190	Yes
## 69	Zinc Deficiency	High	3.806662	No
## 70	Magnesium deficiency	High	3.555348	No
## 71	Biotin Deficiency	Moderate	3.178054	No
## 72	Vitamin D Deficiency	High	3.806662	No
## 73	Vitamin A Deficiency	Low	3.218876	No
## 74	Zinc Deficiency	Low	3.258097	No
## 75	Zinc Deficiency	Moderate	3.931826	Yes
## 76	Vitamin D Deficiency	High	3.663562	No
## 77	Magnesium deficiency	High	3.135494	No
## 78	Vitamin E deficiency	High	3.912023	Yes
## 79	Zinc Deficiency	Low	3.555348	No
## 80	Vitamin D Deficiency	High	3.871201	No
## 81	Vitamin D Deficiency	High	3.218876	Yes

## 82	Vitamin E deficiency	Low	3.737670	Yes
## 83	Biotin Deficiency	High	2.944439	Yes
## 84	Zinc Deficiency	Moderate	3.850148	Yes
## 85	Omega-3 fatty acids	Low	3.784190	Yes
## 86	Vitamin A Deficiency	Low	3.496508	No
## 87	Zinc Deficiency	Low	3.465736	Yes
## 88	Magnesium deficiency	Low	3.637586	No
## 89	Vitamin A Deficiency	High	3.218876	Yes
## 90	Iron deficiency	Moderate	3.850148	No
## 91	Zinc Deficiency	Moderate	2.995732	No
## 92	Vitamin D Deficiency	Moderate	3.555348	Yes
## 93	Vitamin D Deficiency	Low	3.401197	No
## 94	Zinc Deficiency	Moderate	3.367296	Yes
## 95	Iron deficiency	Moderate	3.737670	Yes
## 96	Protein deficiency	Moderate	3.637586	No
## 97	Iron deficiency	High	2.995732	No
## 98	Biotin Deficiency	Moderate	3.828641	Yes
## 99	Vitamin A Deficiency	High	3.688879	No
## 100	Iron deficiency	High	3.218876	Yes
## 101	Magnesium deficiency	Moderate	3.332205	No
## 102	Vitamin D Deficiency	Low	3.555348	No
## 103	Vitamin A Deficiency	Moderate	2.995732	Yes
## 104	Iron deficiency	Moderate	3.737670	Yes
## 105	Vitamin A Deficiency	Low	3.637586	Yes
## 106	Iron deficiency	Low	3.931826	Yes
## 107	Protein deficiency	High	3.555348	Yes
## 108	Selenium deficiency	High	3.178054	Yes
## 109	Zinc Deficiency	Low	3.637586	No
## 110	Vitamin D Deficiency	Low	3.931826	No
## 111	Omega-3 fatty acids	High	3.367296	Yes
## 112	Vitamin A Deficiency	High	3.218876	No
## 113	Vitamin D Deficiency	Moderate	3.610918	No
## 114	Selenium deficiency	Low	2.944439	Yes
## 115	Biotin Deficiency	Moderate	3.218876	Yes
## 116	Protein deficiency	Low	3.218876	No
## 117	Protein deficiency	High	3.178054	Yes
## 118	Biotin Deficiency	Moderate	3.871201	Yes
## 119	Iron deficiency	Moderate	3.401197	Yes
## 120	Vitamin E deficiency	Moderate	3.761200	No
## 121	Selenium deficiency	Low	3.332205	Yes
## 122	Biotin Deficiency	High	3.583519	No
## 123	Vitamin A Deficiency	Moderate	3.178054	No
## 124	Protein deficiency	Low	2.995732	Yes
## 125	Biotin Deficiency	High	3.218876	Yes
## 126	Protein deficiency	Low	3.583519	No
## 127	Vitamin A Deficiency	Low	3.433987	No
## 128	Vitamin A Deficiency	Low	3.891820	Yes
## 129	Biotin Deficiency	Low	3.433987	Yes
## 130	Zinc Deficiency	Moderate	3.688879	Yes
## 131	Omega-3 fatty acids	Moderate	3.871201	No
## 132	Biotin Deficiency	Low	3.784190	Yes
## 133	Magnesium deficiency	High	3.332205	Yes
## 134	Zinc Deficiency	Moderate	3.761200	Yes
## 135	Omega-3 fatty acids	Moderate	3.178054	No

## 136	Biotin Deficiency	Low	3.761200	Yes
## 137	Selenium deficiency	Low	3.637586	No
## 138	Selenium deficiency	High	2.944439	Yes
## 139	Vitamin E deficiency	High	3.555348	No
## 140	Iron deficiency	Low	2.944439	Yes
## 141	Iron deficiency	High	3.401197	Yes
## 142	Vitamin D Deficiency	High	3.332205	No
## 143	Selenium deficiency	Moderate	3.583519	No
## 144	Biotin Deficiency	Low	3.688879	No
## 145	Omega-3 fatty acids	High	3.931826	Yes
## 146	Omega-3 fatty acids	Moderate	3.496508	Yes
## 147	Magnesium deficiency	Moderate	3.433987	Yes
## 148	Protein deficiency	Low	3.828641	Yes
## 149	Zinc Deficiency	Low	2.995732	Yes
## 150	Iron deficiency	Low	3.496508	Yes
## 151	Iron deficiency	Moderate	3.044522	No
## 152	Zinc Deficiency	Moderate	3.496508	No
## 153	Protein deficiency	High	3.784190	Yes
## 154	Protein deficiency	Moderate	3.663562	Yes
## 155	Vitamin E deficiency	Low	3.496508	Yes
## 156	Iron deficiency	High	3.295837	Yes
## 157	Vitamin D Deficiency	Low	3.496508	No
## 158	Omega-3 fatty acids	Low	3.737670	Yes
## 159	Vitamin E deficiency	High	3.526361	Yes
## 160	Magnesium deficiency	Moderate	3.044522	No
## 161	Selenium deficiency	Moderate	3.583519	Yes
## 162	Biotin Deficiency	Low	3.295837	Yes
## 163	Selenium deficiency	Moderate	3.688879	No
## 164	Omega-3 fatty acids	Moderate	3.433987	No
## 165	Protein deficiency	Low	3.258097	Yes
## 166	Selenium deficiency	Low	3.912023	No
## 167	Protein deficiency	Moderate	3.526361	No
## 168	Protein deficiency	High	3.761200	Yes
## 169	Vitamin A Deficiency	High	3.784190	Yes
## 170	Biotin Deficiency	Moderate	3.828641	No
## 171	Zinc Deficiency	Low	3.178054	Yes
## 172	Zinc Deficiency	Moderate	3.931826	Yes
## 173	Selenium deficiency	Moderate	3.295837	Yes
## 174	Vitamin D Deficiency	High	3.850148	No
## 175	Vitamin A Deficiency	Low	3.850148	No
## 176	Selenium deficiency	Low	2.944439	No
## 177	Vitamin A Deficiency	High	3.433987	No
## 178	Protein deficiency	High	3.761200	Yes
## 179	Biotin Deficiency	Low	3.610918	No
## 180	Biotin Deficiency	Low	3.737670	No
## 181	Biotin Deficiency	Moderate	3.135494	Yes
## 182	Magnesium deficiency	High	3.806662	Yes
## 183	Biotin Deficiency	Low	3.433987	No
## 184	Vitamin E deficiency	High	3.871201	Yes
## 185	Biotin Deficiency	High	2.944439	No
## 186	Iron deficiency	Moderate	3.401197	Yes
## 187	Magnesium deficiency	Moderate	3.401197	Yes
## 188	Biotin Deficiency	Moderate	3.871201	No
## 189	Vitamin D Deficiency	High	3.610918	Yes

## 190	Zinc Deficiency	Low	3.688879	No
## 191	Vitamin A Deficiency	Low	3.465736	Yes
## 192	Vitamin E deficiency	Low	3.526361	No
## 193	Iron deficiency	Moderate	3.218876	No
## 194	Omega-3 fatty acids	Low	3.496508	Yes
## 195	Magnesium deficiency	Moderate	3.871201	No
## 196	Iron deficiency	High	3.258097	No
## 197	Biotin Deficiency	Low	3.806662	Yes
## 198	Zinc Deficiency	High	3.931826	No
## 199	Omega-3 fatty acids	Moderate	3.433987	Yes
## 200	Zinc Deficiency	High	3.806662	No
## 201	Protein deficiency	Moderate	3.784190	No
## 202	Protein deficiency	High	2.944439	No
## 203	Protein deficiency	High	3.295837	No
## 204	Zinc Deficiency	Low	3.583519	No
## 205	Selenium deficiency	Moderate	3.332205	No
## 206	Biotin Deficiency	High	3.891820	No
## 207	Selenium deficiency	Low	3.871201	Yes
## 208	Zinc Deficiency	High	3.828641	Yes
## 209	Zinc Deficiency	Low	3.688879	Yes
## 210	Vitamin A Deficiency	High	3.891820	No
## 211	Vitamin E deficiency	Low	3.931826	Yes
## 212	Zinc Deficiency	High	3.367296	No
## 213	Vitamin A Deficiency	Low	3.828641	No
## 214	Protein deficiency	Moderate	3.850148	No
## 215	Vitamin E deficiency	High	3.178054	No
## 216	Magnesium deficiency	Moderate	3.401197	Yes
## 217	Selenium deficiency	Low	2.995732	No
## 218	Omega-3 fatty acids	High	3.433987	No
## 219	Biotin Deficiency	Low	3.496508	Yes
## 220	Zinc Deficiency	Low	2.944439	Yes
## 221	Zinc Deficiency	Moderate	3.332205	No
## 222	Vitamin E deficiency	Moderate	3.332205	No
## 223	Vitamin D Deficiency	Moderate	3.688879	No
## 224	Omega-3 fatty acids	Low	3.713572	No
## 225	Iron deficiency	Moderate	3.555348	Yes
## 226	Protein deficiency	Moderate	3.178054	No
## 227	Iron deficiency	Low	3.135494	No
## 228	Vitamin D Deficiency	Low	3.761200	Yes
## 229	Vitamin D Deficiency	Low	3.761200	Yes
## 230	Iron deficiency	Moderate	2.944439	No
## 231	Zinc Deficiency	Moderate	3.610918	No
## 232	Biotin Deficiency	Low	3.496508	No
## 233	Vitamin A Deficiency	Low	3.401197	No
## 234	Vitamin E deficiency	Moderate	3.871201	No
## 235	Vitamin E deficiency	Low	3.433987	No
## 236	Selenium deficiency	Moderate	2.944439	No
## 237	Iron deficiency	High	3.135494	No
## 238	Protein deficiency	Moderate	3.871201	Yes
## 239	Biotin Deficiency	Moderate	3.663562	No
## 240	Vitamin A Deficiency	High	2.944439	No
## 241	Iron deficiency	Moderate	3.526361	No
## 242	Biotin Deficiency	Moderate	3.931826	Yes
## 243	Vitamin D Deficiency	Moderate	3.806662	Yes

## 244	Vitamin A Deficiency	Moderate	2.995732	No
## 245	Biotin Deficiency	Low	3.044522	Yes
## 246	Vitamin A Deficiency	Low	3.784190	Yes
## 247	Biotin Deficiency	Low	3.784190	Yes
## 248	Zinc Deficiency	Low	3.784190	Yes
## 249	Protein deficiency	Moderate	3.555348	Yes
## 250	Biotin Deficiency	Moderate	3.688879	Yes
## 251	Vitamin E deficiency	High	3.258097	Yes
## 252	Vitamin D Deficiency	Moderate	3.295837	Yes
## 253	Zinc Deficiency	Low	3.091042	No
## 254	Protein deficiency	High	3.637586	No
## 255	Selenium deficiency	Moderate	3.828641	Yes
## 256	Zinc Deficiency	High	3.218876	No
## 257	Vitamin D Deficiency	High	3.891820	No
## 258	Iron deficiency	Moderate	3.332205	No
## 259	Vitamin D Deficiency	High	3.637586	No
## 260	Protein deficiency	Low	3.465736	Yes
## 261	Zinc Deficiency	Moderate	3.828641	No
## 262	Vitamin E deficiency	Moderate	3.258097	Yes
## 263	Vitamin A Deficiency	High	3.761200	No
## 264	Biotin Deficiency	Low	3.663562	No
## 265	Vitamin E deficiency	Low	3.526361	Yes
## 266	Vitamin E deficiency	Moderate	3.555348	No
## 267	Omega-3 fatty acids	Moderate	3.850148	Yes
## 268	Zinc Deficiency	Moderate	3.258097	Yes
## 269	Vitamin E deficiency	High	3.806662	No
## 270	Vitamin D Deficiency	Low	3.931826	No
## 271	Biotin Deficiency	High	3.583519	Yes
## 272	Vitamin A Deficiency	High	2.944439	No
## 273	Selenium deficiency	High	3.871201	Yes
## 274	Protein deficiency	Moderate	3.295837	No
## 275	Omega-3 fatty acids	High	3.295837	Yes
## 276	Magnesium deficiency	Moderate	3.761200	No
## 277	Zinc Deficiency	High	3.637586	No
## 278	Vitamin E deficiency	Low	3.806662	Yes
## 279	Vitamin D Deficiency	Low	3.496508	No
## 280	Magnesium deficiency	Moderate	3.610918	No
## 281	Iron deficiency	Low	3.637586	Yes
## 282	Protein deficiency	Low	3.912023	No
## 283	Iron deficiency	Low	3.688879	Yes
## 284	Biotin Deficiency	Moderate	3.871201	No
## 285	Zinc Deficiency	Low	3.258097	No
## 286	Zinc Deficiency	High	3.871201	No
## 287	Biotin Deficiency	High	3.332205	Yes
## 288	Magnesium deficiency	High	3.044522	No
## 289	Iron deficiency	Moderate	3.784190	Yes
## 290	Zinc Deficiency	High	3.526361	Yes
## 291	Vitamin E deficiency	High	3.218876	No
## 292	Magnesium deficiency	High	3.784190	No
## 293	Omega-3 fatty acids	High	3.583519	Yes
## 294	Zinc Deficiency	Low	3.367296	No
## 295	Biotin Deficiency	Low	3.737670	Yes
## 296	Vitamin E deficiency	High	3.610918	No
## 297	Iron deficiency	High	3.871201	No

## 298	Zinc Deficiency	Low	3.526361	Yes
## 299	Vitamin A Deficiency	Low	3.663562	No
## 300	Vitamin E deficiency	Moderate	3.091042	Yes
## 301	Zinc Deficiency	High	3.828641	No
## 302	Omega-3 fatty acids	Low	3.332205	Yes
## 303	Vitamin D Deficiency	Low	3.401197	No
## 304	Omega-3 fatty acids	Low	3.091042	Yes
## 305	Selenium deficiency	Moderate	3.610918	Yes
## 306	Zinc Deficiency	Moderate	3.663562	Yes
## 307	Selenium deficiency	Moderate	3.496508	No
## 308	Zinc Deficiency	Low	3.713572	Yes
## 309	Vitamin E deficiency	Low	3.713572	Yes
## 310	Zinc Deficiency	Moderate	3.526361	No
## 311	Protein deficiency	Low	3.135494	Yes
## 312	Vitamin E deficiency	Low	2.944439	Yes
## 313	Selenium deficiency	High	3.663562	No
## 314	Zinc Deficiency	High	3.295837	Yes
## 315	Omega-3 fatty acids	High	3.135494	No
## 316	Vitamin E deficiency	Low	3.091042	No
## 317	Zinc Deficiency	Moderate	3.433987	No
## 318	Zinc Deficiency	High	3.891820	Yes
## 319	Vitamin D Deficiency	Moderate	3.218876	No
## 320	Protein deficiency	Moderate	3.135494	Yes
## 321	Vitamin A Deficiency	Low	3.713572	Yes
## 322	Vitamin D Deficiency	High	3.806662	Yes
## 323	Vitamin D Deficiency	Moderate	3.871201	Yes
## 324	Zinc Deficiency	High	3.871201	Yes
## 325	Vitamin D Deficiency	Moderate	3.871201	Yes
## 326	Omega-3 fatty acids	Low	3.737670	No
## 327	Vitamin A Deficiency	Low	3.828641	Yes
## 328	Protein deficiency	Moderate	3.295837	Yes
## 329	Omega-3 fatty acids	Moderate	3.401197	Yes
## 330	Protein deficiency	Low	3.135494	Yes
## 331	Vitamin D Deficiency	Moderate	3.688879	No
## 332	Vitamin E deficiency	High	3.332205	Yes
## 333	Vitamin D Deficiency	High	3.891820	Yes
## 334	Vitamin D Deficiency	Moderate	3.401197	No
## 335	Biotin Deficiency	Low	3.526361	Yes
## 336	Vitamin D Deficiency	High	3.850148	No
## 337	Omega-3 fatty acids	Low	3.828641	No
## 338	Biotin Deficiency	Moderate	3.496508	No
## 339	Magnesium deficiency	High	3.583519	Yes
## 340	Omega-3 fatty acids	High	3.258097	Yes
## 341	Biotin Deficiency	Low	3.465736	Yes
## 342	Zinc Deficiency	High	3.713572	No
## 343	Omega-3 fatty acids	High	3.433987	No
## 344	Protein deficiency	Low	3.912023	No
## 345	Vitamin E deficiency	High	3.178054	Yes
## 346	Omega-3 fatty acids	Low	3.784190	Yes
## 347	Selenium deficiency	Moderate	3.663562	No
## 348	Biotin Deficiency	High	3.465736	Yes
## 349	Biotin Deficiency	Low	3.610918	No
## 350	Omega-3 fatty acids	High	3.367296	No
## 351	Vitamin E deficiency	High	3.931826	Yes

## 352	Vitamin A Deficiency	Low	3.891820	No
## 353	Selenium deficiency	High	3.367296	No
## 354	Biotin Deficiency	Low	3.135494	Yes
## 355	Magnesium deficiency	Low	3.713572	Yes
## 356	Vitamin A Deficiency	High	3.332205	No
## 357	Vitamin A Deficiency	Moderate	3.496508	Yes
## 358	Magnesium deficiency	Low	2.944439	No
## 359	Magnesium deficiency	Low	3.871201	No
## 360	Iron deficiency	Moderate	3.737670	No
## 361	Omega-3 fatty acids	High	3.737670	No
## 362	Vitamin E deficiency	High	3.784190	Yes
## 363	Protein deficiency	Moderate	3.891820	No
## 364	Vitamin A Deficiency	Low	3.737670	Yes
## 365	Vitamin D Deficiency	Moderate	2.995732	No
## 366	Zinc Deficiency	Moderate	3.135494	No
## 367	Magnesium deficiency	Low	3.583519	No
## 368	Vitamin D Deficiency	High	3.663562	No
## 369	Magnesium deficiency	High	3.044522	Yes
## 370	Biotin Deficiency	Moderate	3.713572	No
## 371	Iron deficiency	Low	3.433987	No
## 372	Selenium deficiency	Moderate	3.713572	No
## 373	Protein deficiency	High	3.784190	No
## 374	Zinc Deficiency	High	3.367296	No
## 375	Omega-3 fatty acids	Low	3.891820	Yes
## 376	Selenium deficiency	Moderate	3.713572	Yes
## 377	Vitamin A Deficiency	Low	3.526361	Yes
## 378	Vitamin A Deficiency	Low	2.995732	Yes
## 379	Selenium deficiency	Moderate	3.044522	No
## 380	Iron deficiency	Low	3.178054	No
## 381	Vitamin E deficiency	High	3.610918	Yes
## 382	Zinc Deficiency	Moderate	3.784190	No
## 383	Iron deficiency	Moderate	3.401197	No
## 384	Protein deficiency	Moderate	3.091042	Yes
## 385	Biotin Deficiency	Low	3.713572	No
## 386	Vitamin D Deficiency	Moderate	3.850148	Yes
## 387	Vitamin A Deficiency	High	2.995732	No
## 388	Vitamin A Deficiency	High	3.218876	No
## 389	Selenium deficiency	Low	3.258097	Yes
## 390	Zinc Deficiency	High	3.784190	No
## 391	Vitamin D Deficiency	Moderate	3.784190	Yes
## 392	Protein deficiency	Low	3.688879	Yes
## 393	Vitamin D Deficiency	Low	3.091042	Yes
## 394	Zinc Deficiency	Moderate	3.850148	No
## 395	Vitamin D Deficiency	Moderate	3.610918	Yes
## 396	Vitamin D Deficiency	Low	3.526361	No
## 397	Vitamin A Deficiency	Low	3.401197	Yes
## 398	Vitamin A Deficiency	Moderate	3.806662	No
## 399	Vitamin A Deficiency	Moderate	3.688879	Yes
## 400	Vitamin D Deficiency	Moderate	3.496508	Yes
## 401	Biotin Deficiency	Moderate	3.806662	No
## 402	Biotin Deficiency	Moderate	3.044522	No
## 403	Vitamin D Deficiency	High	3.761200	Yes
## 404	Magnesium deficiency	Low	3.713572	No
## 405	Vitamin D Deficiency	High	3.610918	Yes

## 406	Biotin Deficiency	Low	3.332205	No
## 408	Selenium deficiency	Moderate	3.258097	Yes
## 409	Vitamin E deficiency	Low	3.737670	Yes
## 410	Selenium deficiency	Moderate	3.295837	No
## 411	Selenium deficiency	High	3.555348	Yes
## 412	Biotin Deficiency	High	3.583519	No
## 413	Biotin Deficiency	Moderate	3.496508	Yes
## 414	Omega-3 fatty acids	Low	3.496508	Yes
## 415	Selenium deficiency	High	3.850148	Yes
## 416	Omega-3 fatty acids	Low	3.871201	Yes
## 417	Vitamin A Deficiency	High	3.828641	No
## 418	Protein deficiency	Low	3.496508	No
## 419	Biotin Deficiency	Low	3.091042	Yes
## 420	Vitamin E deficiency	Low	3.713572	No
## 421	Vitamin D Deficiency	Moderate	3.496508	Yes
## 422	Protein deficiency	High	3.610918	Yes
## 423	Zinc Deficiency	High	3.135494	Yes
## 424	Vitamin D Deficiency	Moderate	3.663562	No
## 425	Protein deficiency	High	3.828641	No
## 426	Omega-3 fatty acids	Moderate	3.737670	Yes
## 427	Vitamin A Deficiency	Low	2.995732	Yes
## 428	Vitamin A Deficiency	Moderate	3.178054	Yes
## 429	Selenium deficiency	Moderate	3.637586	No
## 430	Biotin Deficiency	High	3.583519	No
## 431	Biotin Deficiency	Moderate	3.044522	No
## 432	Iron deficiency	Low	3.496508	Yes
## 433	Zinc Deficiency	Moderate	3.806662	No
## 434	Vitamin A Deficiency	Low	3.784190	Yes
## 435	Magnesium deficiency	Low	2.995732	No
## 436	Vitamin E deficiency	Low	3.891820	No
## 437	Vitamin A Deficiency	Moderate	3.526361	Yes
## 438	Vitamin E deficiency	High	3.713572	Yes
## 439	Vitamin E deficiency	High	3.332205	Yes
## 440	Vitamin D Deficiency	Low	3.850148	No
## 441	Protein deficiency	Moderate	3.295837	Yes
## 442	Selenium deficiency	Low	3.218876	Yes
## 443	Iron deficiency	High	3.871201	No
## 444	Magnesium deficiency	Moderate	3.496508	Yes
## 445	Biotin Deficiency	Low	3.713572	No
## 446	Vitamin A Deficiency	Low	2.944439	No
## 447	Vitamin D Deficiency	Moderate	3.496508	No
## 448	Magnesium deficiency	High	3.891820	Yes
## 449	Iron deficiency	High	3.912023	No
## 450	Biotin Deficiency	Moderate	3.784190	No
## 451	Magnesium deficiency	Low	3.401197	No
## 452	Selenium deficiency	High	3.806662	No
## 453	Selenium deficiency	High	3.931826	No
## 454	Vitamin A Deficiency	High	3.178054	No
## 455	Vitamin D Deficiency	Moderate	3.496508	Yes
## 456	Selenium deficiency	High	3.465736	No
## 457	Omega-3 fatty acids	Moderate	3.555348	Yes
## 458	Iron deficiency	Moderate	3.737670	No
## 459	Omega-3 fatty acids	Low	3.761200	No
## 460	Vitamin E deficiency	Moderate	3.555348	No

## 461	Vitamin E deficiency	High	3.218876	Yes
## 462	Zinc Deficiency	High	3.295837	No
## 463	Magnesium deficiency	High	3.401197	Yes
## 464	Selenium deficiency	Moderate	3.465736	No
## 465	Biotin Deficiency	Low	2.944439	Yes
## 466	Protein deficiency	High	3.637586	Yes
## 467	Selenium deficiency	Moderate	3.931826	Yes
## 468	Magnesium deficiency	Moderate	3.737670	Yes
## 469	Protein deficiency	High	3.401197	Yes
## 470	Vitamin D Deficiency	High	3.912023	Yes
## 471	Omega-3 fatty acids	Moderate	3.891820	No
## 472	Zinc Deficiency	Moderate	3.332205	Yes
## 473	Zinc Deficiency	Low	3.912023	No
## 474	Protein deficiency	Moderate	3.367296	No
## 475	Vitamin D Deficiency	High	3.912023	No
## 476	Vitamin A Deficiency	Low	3.332205	Yes
## 477	Magnesium deficiency	Low	3.688879	Yes
## 478	Zinc Deficiency	Moderate	3.583519	No
## 479	Magnesium deficiency	Moderate	3.663562	No
## 480	Vitamin E deficiency	Moderate	3.637586	No
## 481	Protein deficiency	High	3.178054	Yes
## 482	Vitamin A Deficiency	Moderate	3.367296	No
## 483	Vitamin A Deficiency	High	3.737670	No
## 484	Biotin Deficiency	Moderate	3.583519	No
## 485	Vitamin A Deficiency	High	3.367296	Yes
## 486	Vitamin A Deficiency	Low	3.761200	No
## 487	Omega-3 fatty acids	Low	3.713572	No
## 488	Iron deficiency	Low	3.526361	No
## 489	Biotin Deficiency	Low	3.688879	No
## 490	Selenium deficiency	High	3.713572	No
## 491	Omega-3 fatty acids	Low	3.871201	Yes
## 492	Magnesium deficiency	Low	3.367296	Yes
## 493	Vitamin D Deficiency	Moderate	2.944439	Yes
## 494	Zinc Deficiency	Moderate	3.828641	No
## 495	Biotin Deficiency	High	3.931826	Yes
## 496	Vitamin D Deficiency	Low	2.944439	Yes
## 497	Iron deficiency	Low	3.871201	Yes
## 498	Omega-3 fatty acids	Low	3.496508	Yes
## 499	Vitamin E deficiency	High	3.784190	Yes
## 500	Magnesium deficiency	High	2.944439	No
## 501	Vitamin A Deficiency	High	3.218876	No
## 502	Vitamin D Deficiency	Moderate	3.555348	Yes
## 503	Magnesium deficiency	Low	3.433987	No
## 504	Zinc Deficiency	Moderate	3.737670	No
## 505	Selenium deficiency	Moderate	3.931826	Yes
## 506	Selenium deficiency	Moderate	3.713572	No
## 507	Iron deficiency	Moderate	3.465736	No
## 508	Magnesium deficiency	Low	3.218876	Yes
## 509	Selenium deficiency	Moderate	3.465736	Yes
## 510	Vitamin A Deficiency	Moderate	3.637586	No
## 511	Magnesium deficiency	Moderate	3.931826	Yes
## 512	Omega-3 fatty acids	High	3.178054	Yes
## 513	Vitamin D Deficiency	Moderate	2.944439	No
## 514	Omega-3 fatty acids	High	3.401197	No

## 515	Zinc Deficiency	High	3.891820	No
## 516	Zinc Deficiency	Moderate	3.688879	No
## 517	Vitamin E deficiency	High	3.850148	No
## 518	Omega-3 fatty acids	Low	3.135494	Yes
## 519	Magnesium deficiency	High	3.871201	No
## 520	Vitamin A Deficiency	High	3.891820	No
## 521	Vitamin E deficiency	Low	3.218876	Yes
## 522	Iron deficiency	Moderate	3.610918	No
## 523	Zinc Deficiency	Low	3.637586	Yes
## 524	Protein deficiency	Moderate	3.912023	No
## 525	Protein deficiency	Moderate	3.526361	No
## 526	Omega-3 fatty acids	Low	3.610918	No
## 527	Biotin Deficiency	Low	3.401197	No
## 528	Protein deficiency	Moderate	3.806662	No
## 529	Omega-3 fatty acids	Low	3.610918	Yes
## 530	Zinc Deficiency	Low	3.828641	No
## 531	Omega-3 fatty acids	Moderate	3.555348	Yes
## 532	Iron deficiency	Moderate	3.850148	No
## 533	Vitamin A Deficiency	High	3.891820	No
## 534	Zinc Deficiency	Moderate	3.912023	Yes
## 535	Protein deficiency	Moderate	3.555348	Yes
## 536	Omega-3 fatty acids	Moderate	3.496508	No
## 537	Magnesium deficiency	High	3.091042	No
## 538	Omega-3 fatty acids	Moderate	3.912023	Yes
## 539	Iron deficiency	Low	3.891820	Yes
## 540	Vitamin E deficiency	High	3.526361	No
## 541	Omega-3 fatty acids	Low	3.258097	Yes
## 542	Omega-3 fatty acids	Moderate	3.737670	Yes
## 543	Iron deficiency	Low	3.737670	No
## 544	Iron deficiency	High	3.610918	No
## 545	Vitamin A Deficiency	Moderate	3.401197	No
## 546	Zinc Deficiency	Low	2.944439	No
## 547	Zinc Deficiency	Moderate	3.784190	Yes
## 548	Vitamin E deficiency	Low	3.688879	No
## 549	Magnesium deficiency	Low	3.891820	Yes
## 550	Protein deficiency	Moderate	3.637586	Yes
## 551	Vitamin E deficiency	Low	3.218876	Yes
## 552	Omega-3 fatty acids	Low	3.784190	Yes
## 553	Biotin Deficiency	High	3.367296	Yes
## 554	Vitamin A Deficiency	Moderate	3.737670	Yes
## 555	Vitamin D Deficiency	High	3.663562	Yes
## 556	Vitamin E deficiency	Low	3.367296	Yes
## 557	Vitamin E deficiency	Low	3.713572	Yes
## 558	Vitamin A Deficiency	High	3.367296	No
## 559	Vitamin E deficiency	High	3.912023	Yes
## 560	Magnesium deficiency	Moderate	3.401197	Yes
## 561	Protein deficiency	Moderate	3.850148	Yes
## 562	Magnesium deficiency	Low	3.583519	Yes
## 563	Magnesium deficiency	Moderate	3.218876	No
## 564	Selenium deficiency	Low	3.663562	No
## 565	Iron deficiency	Low	3.610918	No
## 566	Biotin Deficiency	High	2.995732	No
## 567	Biotin Deficiency	Low	3.713572	Yes
## 568	Vitamin D Deficiency	High	3.828641	Yes

## 569	Biotin Deficiency	Low	3.465736	Yes
## 570	Vitamin A Deficiency	Low	3.401197	Yes
## 571	Zinc Deficiency	Low	3.931826	Yes
## 572	Iron deficiency	Low	3.218876	No
## 573	Zinc Deficiency	Low	3.761200	No
## 574	Vitamin E deficiency	Low	3.850148	Yes
## 575	Iron deficiency	High	3.555348	Yes
## 576	Protein deficiency	Moderate	3.218876	No
## 577	Zinc Deficiency	Low	3.637586	Yes
## 578	Vitamin A Deficiency	Moderate	3.401197	No
## 579	Omega-3 fatty acids	High	3.688879	No
## 580	Biotin Deficiency	High	3.295837	Yes
## 581	Vitamin D Deficiency	High	3.663562	No
## 582	Zinc Deficiency	High	2.995732	No
## 583	Protein deficiency	Low	3.295837	No
## 584	Iron deficiency	Moderate	3.178054	No
## 585	Biotin Deficiency	High	3.850148	No
## 586	Protein deficiency	High	3.713572	Yes
## 587	Vitamin D Deficiency	Low	3.737670	Yes
## 588	Omega-3 fatty acids	High	2.944439	Yes
## 589	Selenium deficiency	Low	3.828641	No
## 590	Vitamin D Deficiency	High	3.912023	No
## 591	Vitamin D Deficiency	Moderate	3.496508	No
## 592	Selenium deficiency	High	3.135494	Yes
## 593	Zinc Deficiency	Low	3.367296	No
## 594	Protein deficiency	High	3.555348	Yes
## 595	Biotin Deficiency	Moderate	3.496508	No
## 596	Magnesium deficiency	High	3.465736	No
## 597	Vitamin D Deficiency	Moderate	3.637586	No
## 598	Iron deficiency	Low	3.367296	Yes
## 599	Protein deficiency	High	3.332205	No
## 600	Magnesium deficiency	Moderate	3.496508	Yes
## 601	Protein deficiency	Moderate	3.806662	Yes
## 602	Vitamin E deficiency	High	3.332205	No
## 603	Magnesium deficiency	Low	3.663562	No
## 604	Iron deficiency	High	3.828641	No
## 605	Vitamin E deficiency	Low	3.891820	No
## 606	Omega-3 fatty acids	Moderate	3.218876	Yes
## 607	Vitamin E deficiency	Moderate	3.044522	Yes
## 608	Biotin Deficiency	Low	3.784190	No
## 609	Vitamin D Deficiency	Moderate	3.258097	No
## 610	Iron deficiency	Low	3.433987	No
## 611	Omega-3 fatty acids	Moderate	3.526361	Yes
## 612	Magnesium deficiency	Moderate	3.637586	No
## 613	Biotin Deficiency	High	3.496508	No
## 614	Vitamin A Deficiency	Low	3.610918	Yes
## 615	Zinc Deficiency	High	3.688879	Yes
## 616	Selenium deficiency	High	2.995732	No
## 617	Magnesium deficiency	High	2.944439	No
## 618	Selenium deficiency	High	3.367296	No
## 619	Selenium deficiency	Moderate	3.583519	No
## 620	Zinc Deficiency	Moderate	3.583519	Yes
## 621	Selenium deficiency	Moderate	3.737670	Yes
## 622	Omega-3 fatty acids	High	2.944439	No

## 623	Omega-3 fatty acids	High	3.784190	No
## 624	Zinc Deficiency	Moderate	3.044522	No
## 625	Vitamin A Deficiency	Moderate	3.258097	Yes
## 626	Protein deficiency	High	3.931826	Yes
## 627	Biotin Deficiency	Low	3.526361	Yes
## 628	Vitamin D Deficiency	Low	2.995732	No
## 629	Magnesium deficiency	Moderate	3.258097	Yes
## 630	Vitamin E deficiency	Moderate	3.332205	Yes
## 631	Omega-3 fatty acids	Moderate	3.135494	Yes
## 632	Magnesium deficiency	Moderate	3.367296	Yes
## 633	Zinc Deficiency	Moderate	3.367296	No
## 634	Zinc Deficiency	Moderate	3.784190	No
## 635	Vitamin E deficiency	High	3.135494	Yes
## 636	Selenium deficiency	Moderate	3.178054	Yes
## 637	Biotin Deficiency	Moderate	3.761200	Yes
## 638	Vitamin A Deficiency	Low	3.465736	No
## 639	Magnesium deficiency	Moderate	3.784190	No
## 640	Selenium deficiency	Moderate	3.713572	No
## 641	Vitamin E deficiency	Moderate	3.135494	No
## 642	Vitamin D Deficiency	Low	3.610918	Yes
## 643	Zinc Deficiency	Low	3.135494	No
## 644	Protein deficiency	Moderate	3.465736	Yes
## 645	Vitamin E deficiency	High	3.295837	No
## 646	Vitamin A Deficiency	Moderate	3.806662	No
## 647	Iron deficiency	High	3.583519	Yes
## 648	Omega-3 fatty acids	High	3.218876	No
## 649	Protein deficiency	Moderate	3.912023	No
## 650	Vitamin E deficiency	Low	3.555348	No
## 651	Magnesium deficiency	Moderate	3.135494	Yes
## 652	Zinc Deficiency	Moderate	3.526361	Yes
## 653	Vitamin D Deficiency	High	3.555348	No
## 654	Biotin Deficiency	High	3.135494	No
## 655	Protein deficiency	High	3.806662	Yes
## 656	Vitamin E deficiency	High	3.258097	No
## 657	Zinc Deficiency	High	3.761200	Yes
## 658	Selenium deficiency	High	3.688879	No
## 659	Zinc Deficiency	Moderate	3.135494	No
## 660	Magnesium deficiency	Low	3.850148	Yes
## 661	Selenium deficiency	High	2.995732	No
## 662	Vitamin D Deficiency	Low	3.091042	No
## 663	Selenium deficiency	High	3.091042	Yes
## 664	Selenium deficiency	Moderate	3.850148	Yes
## 665	Selenium deficiency	Low	3.433987	No
## 666	Vitamin D Deficiency	High	3.218876	Yes
## 667	Protein deficiency	Low	3.871201	No
## 668	Vitamin D Deficiency	Moderate	3.688879	Yes
## 669	Magnesium deficiency	Low	3.218876	Yes
## 670	Vitamin E deficiency	Moderate	3.737670	No
## 671	Zinc Deficiency	Low	3.465736	No
## 672	Zinc Deficiency	Low	3.637586	Yes
## 673	Omega-3 fatty acids	Low	3.713572	No
## 674	Magnesium deficiency	Moderate	3.761200	Yes
## 675	Omega-3 fatty acids	Moderate	3.583519	Yes
## 676	Vitamin E deficiency	Moderate	3.688879	No

## 677	Vitamin D Deficiency	High	3.610918	Yes
## 678	Magnesium deficiency	High	3.761200	No
## 679	Omega-3 fatty acids	Low	3.610918	No
## 680	Vitamin D Deficiency	High	3.178054	Yes
## 681	Protein deficiency	Moderate	3.891820	No
## 682	Vitamin A Deficiency	Low	2.995732	No
## 683	Vitamin D Deficiency	High	3.496508	No
## 684	Selenium deficiency	Low	3.871201	No
## 685	Vitamin E deficiency	Moderate	3.091042	Yes
## 686	Biotin Deficiency	Moderate	3.583519	No
## 687	Biotin Deficiency	High	3.688879	Yes
## 688	Omega-3 fatty acids	Moderate	3.912023	Yes
## 689	Vitamin A Deficiency	Moderate	3.828641	Yes
## 690	Vitamin A Deficiency	Low	3.218876	Yes
## 691	Selenium deficiency	Low	3.526361	No
## 692	Vitamin D Deficiency	Moderate	3.828641	Yes
## 693	Selenium deficiency	Low	3.912023	No
## 694	Vitamin E deficiency	Moderate	3.912023	No
## 695	Biotin Deficiency	Moderate	3.583519	No
## 696	Selenium deficiency	Moderate	3.891820	Yes
## 697	Selenium deficiency	High	3.637586	Yes
## 698	Magnesium deficiency	Low	3.295837	No
## 699	Protein deficiency	High	3.784190	No
## 700	Vitamin A Deficiency	Moderate	3.332205	No
## 701	Magnesium deficiency	High	3.401197	Yes
## 702	Magnesium deficiency	Moderate	3.912023	Yes
## 703	Iron deficiency	Moderate	3.433987	Yes
## 704	Protein deficiency	Moderate	3.737670	No
## 705	Vitamin D Deficiency	Low	3.091042	No
## 706	Biotin Deficiency	Low	3.784190	Yes
## 707	Vitamin D Deficiency	Low	3.465736	No
## 708	Omega-3 fatty acids	High	3.218876	Yes
## 709	Vitamin A Deficiency	Low	3.496508	Yes
## 710	Protein deficiency	Low	3.526361	No
## 711	Selenium deficiency	Moderate	3.526361	Yes
## 712	Omega-3 fatty acids	Low	3.496508	Yes
## 713	Omega-3 fatty acids	Moderate	3.526361	Yes
## 714	Vitamin E deficiency	High	3.912023	Yes
## 715	Iron deficiency	Moderate	3.871201	No
## 716	Zinc Deficiency	High	3.465736	No
## 717	Vitamin E deficiency	Moderate	3.401197	No
## 718	Protein deficiency	Moderate	3.784190	Yes
## 719	Vitamin D Deficiency	Low	3.663562	No
## 720	Vitamin E deficiency	High	3.784190	No
## 721	Iron deficiency	Moderate	3.135494	Yes
## 722	Selenium deficiency	Moderate	3.828641	Yes
## 723	Omega-3 fatty acids	High	3.178054	Yes
## 724	Zinc Deficiency	High	3.713572	No
## 725	Biotin Deficiency	Low	3.912023	Yes
## 726	Iron deficiency	Low	3.044522	Yes
## 727	Vitamin E deficiency	Moderate	3.367296	No
## 728	Iron deficiency	Moderate	3.828641	No
## 729	Zinc Deficiency	Low	3.401197	Yes
## 730	Vitamin A Deficiency	Moderate	3.806662	No

## 731	Iron deficiency	Moderate	3.637586	Yes
## 732	Magnesium deficiency	Low	3.401197	No
## 733	Omega-3 fatty acids	High	3.610918	No
## 734	Selenium deficiency	Moderate	3.663562	Yes
## 735	Vitamin D Deficiency	Low	3.295837	No
## 736	Magnesium deficiency	Moderate	3.367296	Yes
## 737	Protein deficiency	High	3.850148	Yes
## 738	Biotin Deficiency	Low	3.583519	No
## 739	Protein deficiency	Moderate	3.401197	Yes
## 740	Vitamin E deficiency	High	3.555348	Yes
## 741	Iron deficiency	Low	3.433987	Yes
## 742	Vitamin E deficiency	High	3.637586	No
## 743	Magnesium deficiency	Moderate	3.465736	No
## 744	Protein deficiency	Low	3.218876	No
## 745	Vitamin D Deficiency	High	3.433987	No
## 746	Vitamin E deficiency	Moderate	3.135494	No
## 747	Vitamin E deficiency	Low	3.526361	No
## 748	Vitamin D Deficiency	Moderate	3.332205	Yes
## 749	Omega-3 fatty acids	Moderate	3.401197	Yes
## 750	Zinc Deficiency	Moderate	3.931826	No
## 751	Omega-3 fatty acids	High	3.465736	Yes
## 752	Selenium deficiency	Moderate	3.496508	No
## 753	Iron deficiency	Low	3.295837	No
## 754	Vitamin E deficiency	Moderate	3.258097	No
## 755	Vitamin D Deficiency	Moderate	3.871201	No
## 756	Vitamin A Deficiency	High	2.944439	No
## 757	Zinc Deficiency	Moderate	2.944439	Yes
## 758	Magnesium deficiency	Moderate	3.931826	No
## 759	Vitamin E deficiency	High	3.465736	Yes
## 760	Omega-3 fatty acids	Low	3.784190	No
## 761	Magnesium deficiency	Low	3.258097	No
## 762	Vitamin E deficiency	Moderate	3.555348	Yes
## 763	Vitamin E deficiency	Low	2.995732	No
## 764	Magnesium deficiency	Moderate	2.944439	Yes
## 765	Protein deficiency	Moderate	3.663562	No
## 766	Vitamin D Deficiency	High	3.367296	Yes
## 767	Iron deficiency	High	3.828641	Yes
## 768	Vitamin A Deficiency	High	3.637586	No
## 769	Vitamin E deficiency	Moderate	3.496508	Yes
## 770	Vitamin A Deficiency	High	3.583519	No
## 771	Biotin Deficiency	Low	3.713572	No
## 772	Selenium deficiency	Low	3.891820	Yes
## 773	Protein deficiency	Low	3.663562	No
## 774	Magnesium deficiency	Low	3.713572	No
## 775	Omega-3 fatty acids	Low	2.995732	No
## 776	Selenium deficiency	Low	3.555348	Yes
## 777	Biotin Deficiency	Moderate	3.433987	No
## 778	Vitamin E deficiency	Low	3.295837	Yes
## 779	Biotin Deficiency	Moderate	3.401197	Yes
## 780	Vitamin E deficiency	Low	3.737670	Yes
## 781	Iron deficiency	Moderate	3.091042	No
## 782	Vitamin A Deficiency	Moderate	3.663562	No
## 783	Zinc Deficiency	Low	2.995732	No
## 784	Vitamin A Deficiency	High	3.465736	Yes

## 785	Omega-3 fatty acids	Low	3.828641	Yes
## 786	Iron deficiency	Low	3.663562	Yes
## 787	Omega-3 fatty acids	High	3.931826	Yes
## 788	Omega-3 fatty acids	Moderate	3.637586	Yes
## 789	Vitamin A Deficiency	Moderate	3.583519	Yes
## 790	Vitamin D Deficiency	Moderate	3.496508	Yes
## 791	Iron deficiency	Low	3.295837	No
## 792	Iron deficiency	High	3.465736	No
## 793	Omega-3 fatty acids	Low	2.995732	No
## 794	Zinc Deficiency	Moderate	3.931826	No
## 795	Vitamin A Deficiency	Moderate	3.828641	No
## 796	Magnesium deficiency	Moderate	3.218876	No
## 797	Magnesium deficiency	Moderate	3.931826	Yes
## 798	Vitamin A Deficiency	Moderate	3.688879	No
## 799	Vitamin A Deficiency	Low	2.995732	Yes
## 800	Vitamin D Deficiency	Low	3.713572	Yes
## 801	Zinc Deficiency	Low	3.713572	No
## 802	Vitamin A Deficiency	High	3.637586	Yes
## 803	Vitamin A Deficiency	Low	3.871201	Yes
## 804	Magnesium deficiency	High	3.135494	Yes
## 805	Protein deficiency	Low	3.091042	Yes
## 806	Vitamin A Deficiency	Low	3.555348	Yes
## 807	Vitamin D Deficiency	High	3.891820	No
## 808	Vitamin A Deficiency	High	3.637586	No
## 809	Omega-3 fatty acids	Moderate	3.295837	Yes
## 810	Vitamin E deficiency	Moderate	3.178054	No
## 811	Omega-3 fatty acids	Low	3.433987	No
## 812	Iron deficiency	Low	3.496508	No
## 813	Protein deficiency	High	3.713572	Yes
## 814	Vitamin D Deficiency	High	3.178054	Yes
## 815	Selenium deficiency	Moderate	3.713572	Yes
## 816	Protein deficiency	High	3.871201	No
## 817	Selenium deficiency	Moderate	3.178054	Yes
## 818	Omega-3 fatty acids	Moderate	3.891820	Yes
## 819	Omega-3 fatty acids	High	3.737670	No
## 820	Vitamin E deficiency	Low	3.091042	Yes
## 821	Magnesium deficiency	High	3.931826	Yes
## 822	Protein deficiency	Moderate	3.663562	No
## 823	Protein deficiency	High	3.433987	No
## 824	Protein deficiency	High	3.737670	No
## 825	Vitamin D Deficiency	Low	3.912023	Yes
## 826	Protein deficiency	High	3.332205	No
## 827	Omega-3 fatty acids	Moderate	3.135494	No
## 828	Selenium deficiency	Low	3.806662	Yes
## 829	Protein deficiency	High	2.995732	No
## 830	Zinc Deficiency	Moderate	3.332205	No
## 831	Zinc Deficiency	High	3.555348	Yes
## 832	Omega-3 fatty acids	Low	3.688879	No
## 833	Iron deficiency	High	3.610918	No
## 834	Vitamin D Deficiency	Moderate	3.583519	Yes
## 835	Iron deficiency	Low	3.637586	Yes
## 836	Omega-3 fatty acids	High	3.433987	No
## 837	Vitamin A Deficiency	High	3.931826	No
## 838	Biotin Deficiency	High	3.555348	Yes

## 839	Omega-3 fatty acids	Moderate	3.044522	Yes
## 840	Selenium deficiency	Low	3.044522	Yes
## 841	Magnesium deficiency	Moderate	3.465736	No
## 842	Vitamin D Deficiency	Low	3.871201	Yes
## 843	Zinc Deficiency	High	3.367296	No
## 844	Omega-3 fatty acids	Moderate	3.583519	Yes
## 845	Vitamin D Deficiency	Low	3.433987	No
## 846	Vitamin A Deficiency	Moderate	2.995732	Yes
## 847	Vitamin D Deficiency	Moderate	3.044522	Yes
## 848	Iron deficiency	Low	3.258097	No
## 849	Biotin Deficiency	Low	3.688879	No
## 850	Selenium deficiency	High	3.610918	No
## 851	Vitamin D Deficiency	Moderate	3.044522	Yes
## 852	Vitamin A Deficiency	Moderate	3.806662	Yes
## 853	Protein deficiency	Low	3.912023	No
## 854	Biotin Deficiency	Moderate	3.465736	Yes
## 855	Selenium deficiency	High	3.135494	Yes
## 856	Vitamin E deficiency	Moderate	2.944439	Yes
## 857	Biotin Deficiency	High	3.295837	No
## 858	Iron deficiency	Moderate	3.332205	Yes
## 859	Selenium deficiency	Moderate	3.610918	No
## 860	Vitamin D Deficiency	Moderate	3.688879	No
## 861	Zinc Deficiency	Low	3.555348	No
## 862	Vitamin D Deficiency	High	3.784190	No
## 863	Omega-3 fatty acids	Low	3.761200	No
## 864	Vitamin D Deficiency	Moderate	3.891820	Yes
## 865	Vitamin A Deficiency	High	3.465736	Yes
## 866	Zinc Deficiency	Low	3.828641	No
## 867	Vitamin A Deficiency	Low	3.871201	Yes
## 868	Vitamin D Deficiency	High	3.526361	No
## 869	Magnesium deficiency	High	3.637586	Yes
## 870	Iron deficiency	High	3.761200	Yes
## 871	Vitamin E deficiency	High	3.828641	Yes
## 872	Vitamin D Deficiency	Moderate	3.465736	Yes
## 873	Omega-3 fatty acids	Low	3.583519	Yes
## 874	Biotin Deficiency	Moderate	3.044522	Yes
## 875	Vitamin E deficiency	Low	3.761200	No
## 876	Protein deficiency	High	3.526361	Yes
## 877	Zinc Deficiency	High	3.218876	No
## 878	Biotin Deficiency	Moderate	3.828641	No
## 879	Vitamin D Deficiency	Low	3.367296	No
## 880	Biotin Deficiency	Moderate	2.995732	No
## 881	Selenium deficiency	Low	3.218876	No
## 882	Omega-3 fatty acids	High	3.178054	No
## 883	Omega-3 fatty acids	Low	3.465736	Yes
## 884	Selenium deficiency	High	3.931826	Yes
## 885	Selenium deficiency	Low	3.178054	Yes
## 886	Iron deficiency	Moderate	3.401197	Yes
## 887	Protein deficiency	Moderate	3.850148	Yes
## 888	Zinc Deficiency	High	3.688879	No
## 889	Protein deficiency	Low	3.332205	Yes
## 890	Vitamin E deficiency	Low	3.663562	No
## 891	Omega-3 fatty acids	Low	3.583519	No
## 892	Magnesium deficiency	Low	3.091042	No

## 893	Vitamin A Deficiency	Moderate	3.713572	Yes
## 894	Vitamin D Deficiency	Moderate	2.995732	No
## 895	Protein deficiency	Low	3.784190	Yes
## 896	Omega-3 fatty acids	High	3.806662	Yes
## 897	Protein deficiency	High	3.784190	Yes
## 898	Iron deficiency	Moderate	3.091042	Yes
## 899	Vitamin D Deficiency	High	3.713572	No
## 900	Vitamin A Deficiency	Moderate	3.401197	Yes
## 901	Iron deficiency	Moderate	3.583519	No
## 902	Iron deficiency	Low	3.178054	No
## 903	Selenium deficiency	Low	3.526361	No
## 904	Omega-3 fatty acids	Low	3.295837	No
## 905	Vitamin D Deficiency	Moderate	3.891820	Yes
## 906	Vitamin A Deficiency	Moderate	3.688879	Yes
## 907	Biotin Deficiency	High	3.401197	No
## 908	Protein deficiency	High	3.828641	Yes
## 909	Vitamin E deficiency	Moderate	3.496508	No
## 910	Biotin Deficiency	High	3.367296	No
## 911	Selenium deficiency	Moderate	3.044522	No
## 912	Vitamin E deficiency	Low	3.610918	No
## 913	Omega-3 fatty acids	Moderate	3.931826	Yes
## 914	Zinc Deficiency	High	3.828641	Yes
## 915	Zinc Deficiency	Moderate	3.912023	Yes
## 916	Vitamin A Deficiency	High	3.295837	No
## 917	Protein deficiency	Moderate	3.663562	Yes
## 918	Protein deficiency	Low	3.555348	Yes
## 919	Biotin Deficiency	High	3.891820	No
## 920	Biotin Deficiency	Moderate	3.332205	Yes
## 921	Zinc Deficiency	High	3.737670	Yes
## 922	Vitamin A Deficiency	High	3.850148	Yes
## 923	Iron deficiency	High	3.295837	No
## 924	Omega-3 fatty acids	High	3.091042	Yes
## 925	Protein deficiency	High	3.401197	Yes
## 926	Magnesium deficiency	Moderate	3.912023	Yes
## 927	Protein deficiency	Moderate	3.258097	No
## 928	Biotin Deficiency	Low	3.761200	Yes
## 929	Protein deficiency	Low	3.367296	No
## 930	Zinc Deficiency	High	3.218876	Yes
## 931	Vitamin A Deficiency	High	3.891820	Yes
## 932	Iron deficiency	High	3.713572	No
## 933	Protein deficiency	High	3.465736	Yes
## 934	Magnesium deficiency	High	3.912023	No
## 935	Iron deficiency	High	3.044522	Yes
## 936	Vitamin A Deficiency	High	3.828641	Yes
## 937	Selenium deficiency	High	3.526361	No
## 938	Protein deficiency	High	3.663562	Yes
## 939	Vitamin E deficiency	High	3.737670	No
## 940	Magnesium deficiency	Low	3.496508	No
## 941	Magnesium deficiency	Low	3.891820	No
## 942	Vitamin E deficiency	High	2.944439	No
## 943	Vitamin A Deficiency	Low	3.218876	No
## 944	Vitamin A Deficiency	Moderate	3.637586	No
## 945	Vitamin D Deficiency	Low	3.663562	No
## 946	Selenium deficiency	Low	3.091042	No

## 947	Biotin Deficiency	High	3.871201	No
## 948	Vitamin E deficiency	High	3.135494	Yes
## 949	Magnesium deficiency	Moderate	3.850148	No
## 950	Vitamin E deficiency	Low	3.295837	No
## 951	Vitamin D Deficiency	Low	3.583519	Yes
## 952	Omega-3 fatty acids	Low	3.828641	No
## 953	Vitamin E deficiency	High	3.737670	Yes
## 954	Omega-3 fatty acids	High	3.332205	Yes
## 955	Iron deficiency	High	3.806662	No
## 956	Zinc Deficiency	Low	3.663562	Yes
## 957	Biotin Deficiency	Moderate	3.091042	No
## 958	Vitamin A Deficiency	High	3.367296	No
## 959	Biotin Deficiency	High	3.583519	No
## 960	Iron deficiency	Moderate	3.931826	Yes
## 961	Omega-3 fatty acids	Moderate	3.663562	No
## 962	Magnesium deficiency	High	3.526361	Yes
## 963	Magnesium deficiency	Moderate	3.761200	Yes
## 964	Magnesium deficiency	High	3.784190	No
## 965	Magnesium deficiency	High	3.912023	No
## 966	Protein deficiency	Low	3.135494	No
## 967	Iron deficiency	High	3.178054	No
## 968	Iron deficiency	Moderate	3.737670	Yes
## 969	Iron deficiency	High	3.737670	Yes
## 970	Omega-3 fatty acids	High	3.583519	Yes
## 971	Biotin Deficiency	Low	2.944439	No
## 972	Magnesium deficiency	Moderate	3.713572	Yes
## 973	Vitamin E deficiency	Low	3.850148	Yes
## 974	Omega-3 fatty acids	High	3.663562	Yes
## 975	Omega-3 fatty acids	Low	3.737670	Yes
## 976	Vitamin D Deficiency	High	3.806662	No
## 977	Iron deficiency	Low	3.091042	Yes
## 978	Vitamin E deficiency	Low	3.258097	No
## 979	Zinc Deficiency	Low	3.850148	No
## 980	Omega-3 fatty acids	Moderate	3.332205	Yes
## 981	Selenium deficiency	Moderate	3.295837	No
## 982	Iron deficiency	High	3.713572	Yes
## 983	Zinc Deficiency	Moderate	3.931826	Yes
## 984	Biotin Deficiency	High	3.526361	Yes
## 985	Protein deficiency	High	3.784190	No
## 986	Biotin Deficiency	Low	3.526361	Yes
## 987	Biotin Deficiency	Low	3.850148	No
## 988	Selenium deficiency	Moderate	2.995732	Yes
## 989	Vitamin A Deficiency	High	3.178054	Yes
## 990	Selenium deficiency	Moderate	3.828641	No
## 991	Zinc Deficiency	Low	3.761200	No
## 992	Zinc Deficiency	High	3.526361	Yes
## 993	Magnesium deficiency	Low	3.433987	No
## 994	Vitamin D Deficiency	Moderate	3.178054	Yes
## 995	Vitamin A Deficiency	Low	3.526361	Yes
## 996	Protein deficiency	Low	3.871201	No
## 997	Protein deficiency	Moderate	3.044522	Yes
## 998	Biotin Deficiency	Moderate	3.496508	Yes
## 999	Vitamin D Deficiency	Low	3.555348	No
##	Environmental.Factors	Weight.Loss	Hair.Loss	Genetics_Yes Genetics_No

## 1	Yes	No	0	1	0
## 2	Yes	No	0	0	1
## 3	Yes	Yes	0	0	1
## 4	Yes	No	0	1	0
## 5	Yes	No	1	0	1
## 6	Yes	Yes	1	1	0
## 7	No	No	1	1	0
## 8	No	No	0	1	0
## 9	No	Yes	1	1	0
## 10	Yes	No	0	0	1
## 11	Yes	No	0	1	0
## 12	No	No	1	0	1
## 13	Yes	No	1	1	0
## 14	Yes	Yes	0	0	1
## 15	Yes	Yes	0	1	0
## 16	No	Yes	0	1	0
## 17	Yes	Yes	0	1	0
## 18	No	Yes	1	0	1
## 19	No	No	0	1	0
## 20	Yes	Yes	1	1	0
## 21	Yes	Yes	1	1	0
## 22	Yes	Yes	1	0	1
## 23	No	Yes	0	1	0
## 24	No	No	1	0	1
## 25	Yes	No	0	0	1
## 26	No	No	0	1	0
## 27	No	No	0	0	1
## 28	No	No	0	0	1
## 29	Yes	No	0	0	1
## 30	Yes	No	0	0	1
## 31	Yes	No	0	0	1
## 32	No	Yes	1	0	1
## 33	Yes	No	0	1	0
## 34	Yes	Yes	1	1	0
## 35	Yes	Yes	1	0	1
## 36	Yes	Yes	0	1	0
## 37	No	Yes	1	0	1
## 38	No	Yes	1	0	1
## 39	Yes	No	0	0	1
## 40	No	No	0	1	0
## 41	Yes	No	0	0	1
## 42	No	Yes	1	1	0
## 43	No	No	1	1	0
## 44	Yes	Yes	1	0	1
## 45	No	No	1	1	0
## 46	No	Yes	1	0	1
## 47	Yes	No	0	0	1
## 48	Yes	No	1	0	1
## 49	Yes	Yes	1	1	0
## 50	Yes	Yes	0	0	1
## 51	Yes	Yes	1	1	0
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## 54	Yes	No	0	1	0

## 55	No	No	1	0	1
## 56	Yes	Yes	1	1	0
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## 58	No	Yes	1	1	0
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## 60	Yes	No	1	0	1
## 61	No	No	0	1	0
## 62	Yes	Yes	0	0	1
## 63	No	No	1	0	1
## 64	No	Yes	0	1	0
## 65	Yes	No	1	1	0
## 66	No	Yes	0	1	0
## 67	Yes	No	1	1	0
## 68	Yes	No	0	0	1
## 69	No	No	0	1	0
## 70	No	No	1	1	0
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## 73	Yes	No	1	1	0
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## 75	No	Yes	1	0	1
## 76	No	No	1	1	0
## 77	Yes	No	1	0	1
## 78	No	Yes	0	0	1
## 79	Yes	No	0	0	1
## 80	Yes	No	1	0	1
## 81	No	No	0	0	1
## 82	No	No	0	0	1
## 83	No	No	0	0	1
## 84	Yes	No	0	1	0
## 85	Yes	Yes	0	1	0
## 86	No	No	1	1	0
## 87	Yes	No	1	0	1
## 88	Yes	Yes	0	1	0
## 89	Yes	No	0	0	1
## 90	No	Yes	1	1	0
## 91	No	No	0	1	0
## 92	Yes	No	1	1	0
## 93	No	No	1	1	0
## 94	Yes	Yes	1	0	1
## 95	Yes	No	1	0	1
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## 98	Yes	No	0	1	0
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## 100	Yes	Yes	0	1	0
## 101	No	No	1	1	0
## 102	Yes	Yes	0	1	0
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## 104	No	Yes	0	1	0
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## 106	No	No	0	0	1
## 107	No	Yes	0	0	1
## 108	Yes	Yes	1	1	0

## 109	Yes	No	0	1	0
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## 111	No	Yes	1	1	0
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## 113	No	Yes	1	1	0
## 114	No	No	0	0	1
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## 116	Yes	No	0	1	0
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## 119	No	No	1	1	0
## 120	No	No	1	0	1
## 121	No	No	0	1	0
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## 126	No	Yes	0	1	0
## 127	Yes	No	1	0	1
## 128	Yes	Yes	0	1	0
## 129	Yes	Yes	0	1	0
## 130	No	Yes	0	1	0
## 131	Yes	Yes	0	1	0
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## 136	No	No	1	1	0
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## 138	No	Yes	1	1	0
## 139	Yes	Yes	0	1	0
## 140	Yes	No	0	0	1
## 141	Yes	Yes	1	0	1
## 142	Yes	Yes	1	0	1
## 143	Yes	Yes	0	1	0
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## 996	0	1
## 997	1	0
## 998	1	0
## 999	0	1

```
model <- glm(Hair.Loss ~ Smoking_Yes + Medical.Conditions + Smoking_Yes*Medical.Conditions,
             data = data, family = binomial(link = "logit"))

summary(model)
```

```
##
## Call:
## glm(formula = Hair.Loss ~ Smoking_Yes + Medical.Conditions +
##      Smoking_Yes * Medical.Conditions, family = binomial(link = "logit"),
##      data = data)
##
## Coefficients:
##                                     Estimate Std. Error z value
## (Intercept)                        0.4754     0.2655   1.790
## Smoking_Yes                       -0.5105     0.3751  -1.361
## Medical.ConditionsAndrogenetic Alopecia -0.3357     0.4049  -0.829
## Medical.ConditionsDermatitis        -0.6033     0.3949  -1.528
## Medical.ConditionsDermatosis       -0.3213     0.3846  -0.835
## Medical.ConditionsEczema           -0.9274     0.4329  -2.142
## Medical.ConditionsPsoriasis        -0.3528     0.3904  -0.904
## Medical.ConditionsRingworm        -0.4241     0.4161  -1.019
## Medical.ConditionsScalp Infection  -0.5146     0.3860  -1.333
## Medical.ConditionsSeborrheic Dermatitis -0.1527     0.3906  -0.391
## Medical.ConditionsThyroid Problems -0.3213     0.3846  -0.835
## Smoking_Yes:Medical.ConditionsAndrogenetic Alopecia 0.5870     0.5445   1.078
## Smoking_Yes:Medical.ConditionsDermatitis 0.4625     0.5449   0.849
## Smoking_Yes:Medical.ConditionsDermatosis 0.1653     0.5605   0.295
## Smoking_Yes:Medical.ConditionsEczema 1.1632     0.5988   1.942
## Smoking_Yes:Medical.ConditionsPsoriasis 0.2498     0.5403   0.462
## Smoking_Yes:Medical.ConditionsRingworm 0.1307     0.5821   0.225
## Smoking_Yes:Medical.ConditionsScalp Infection 0.2475     0.5670   0.436
## Smoking_Yes:Medical.ConditionsSeborrheic Dermatitis 0.1877     0.5424   0.346
## Smoking_Yes:Medical.ConditionsThyroid Problems -0.1457     0.5365  -0.272
##                                     Pr(>|z|)
## (Intercept)                        0.0734 .
## Smoking_Yes                        0.1735
## Medical.ConditionsAndrogenetic Alopecia 0.4072
## Medical.ConditionsDermatitis        0.1266
## Medical.ConditionsDermatosis        0.4035
## Medical.ConditionsEczema            0.0322 *
## Medical.ConditionsPsoriasis         0.3662
## Medical.ConditionsRingworm          0.3081
## Medical.ConditionsScalp Infection   0.1824
## Medical.ConditionsSeborrheic Dermatitis 0.6960
## Medical.ConditionsThyroid Problems  0.4035
## Smoking_Yes:Medical.ConditionsAndrogenetic Alopecia 0.2810
## Smoking_Yes:Medical.ConditionsDermatitis 0.3960
## Smoking_Yes:Medical.ConditionsDermatosis 0.7681
## Smoking_Yes:Medical.ConditionsEczema 0.0521 .
## Smoking_Yes:Medical.ConditionsPsoriasis 0.6439
## Smoking_Yes:Medical.ConditionsRingworm 0.8223
## Smoking_Yes:Medical.ConditionsScalp Infection 0.6625
## Smoking_Yes:Medical.ConditionsSeborrheic Dermatitis 0.7293
```

```

## Smoking_Yes:Medical.ConditionsThyroid Problems      0.7859
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 1383.5  on 997  degrees of freedom
## Residual deviance: 1367.9  on 978  degrees of freedom
## AIC: 1407.9
##
## Number of Fisher Scoring iterations: 4

```