R Code

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# All increases - raw data
data<-read.csv(file = "nadacv2 (1).csv") # Can be found in <Drug</pre>
Cost Analysis v1.0.xlsx\Raw Data>
dates<-as.Date(data$Date)</pre>
x<-data$Percent.Change
hist(x, breaks = 800, freq=FALSE, xlim=c(-0.01,0.3), xlab="%",
main="Density Distribution of Weekly Percentage Increase in NADAC,
Given an Increase")
mean < -mean(x)
median<-median(x)</pre>
var(x)
quantile (x, 0.79)
quantile (x, 0.975)
# Frequency
freq<-read.csv(file="frequencybydate.csv") # Can be found in
<Drug Cost Analysis v1.0.xlsx\Frequency Raw Data>
fdates<-as.Date(freq$Date)</pre>
NumIncreases<-freq$Count
plot(fdates, NumIncreases, ylab="# of price increases per week",
xlab="Date", main="Frequency distribution")
mean (NumIncreases)
var(NumIncreases)
hist(NumIncreases, xlab="# of price increases per week",
main="Frequency distribution", breaks=70, freq=FALSE)
# Annualized increases
annual <- read.csv(file="nadacannualized.csv") # Can be found in
<Drug Cost Analysis v1.0.xlsx\Annualization - Results>
xAnnual<-annual$Annualized...increase
```

```
hist(xAnnual, breaks = 70, freq=FALSE, xlab= "%", xlim=c(-0.01,2),
main="Density Distribution of Annualized Percentage Increase in
NADAC, Given an Increase")
mean(xAnnual)
alpha<-(mean(xAnnual)/sd(xAnnual))^2</pre>
beta<-var(xAnnual)/mean(xAnnual)</pre>
# sample of 20 drugs
sample<-read.csv(file="sample.csv") # Can be found in <Drug Cost</pre>
Analysis v1.0.xlsx\Sample>
DollarImpact<-sample$Total.impact</pre>
DollarImpact<-DollarImpact/1000000
Percent<-sample$Percent.Change
cor(DollarImpact, Percent)
plot(Percent, DollarImpact)
hist(DollarImpact, breaks = 20, freq=FALSE, xlab="$ Million",
main="Dollar impacts of a sample of drug price increases")
```