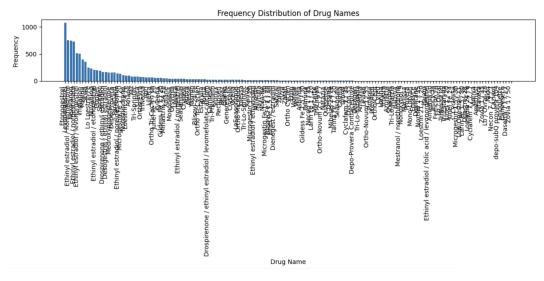
Analysis Data File 1: sentimentdf.csv

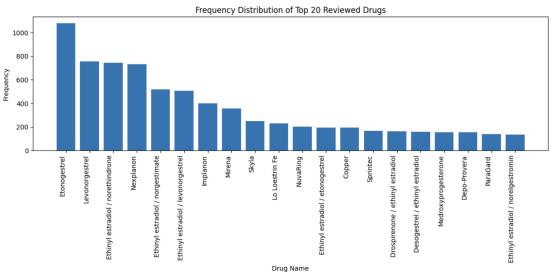
Unit of Observation: Each row in the dataset represents a single review submitted by a patient regarding their experience with a birth control drug.

- 1. Variable: drugName
 - Definition: This variable represents the name of the birth control drug associated with the review.
 - Input Data File: The variable name, drugName was taken directly from the input dataset without additional processing.
 - Missing Observations: 9649(0)

```
drugName
Etonogestrel 1080
Levonorgestrel 755
Ethinyl estradiol / norethindrone 744
Nexplanon 734
Ethinyl estradiol / norgestimate 517

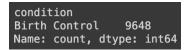
depo-subQ provera 104 1
Emoquette 1
CamreseLo 1
Dasetta 7 / 7 / 7 1
Zovia 1 / 50 1
Name: count, Length: 155, dtype: int64
```

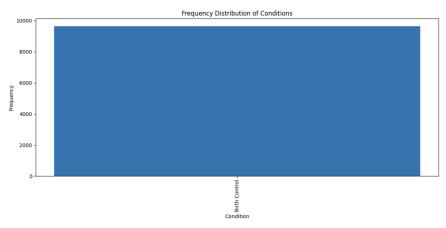




2. Variable: condition

- Definition: This variable represents the name of the medical condition that the drug is being used for
- Input Data File: The variable name, condition was filtered to only look at conditions of "Birth Control"
- Missing observations: 9649(0)





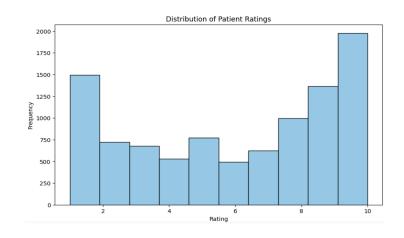
3. Variable: review

- Definition: This variable represents the comments from the patient on their overall experience with the drug. It is full, unprocessed text.
- Input data file: The variable name, review was taken directly from the input dataset without additional processing
- Missing observations: 9649(0)

4. Variable: rating

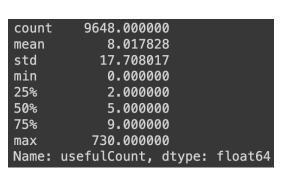
- Definition: This variable represents the patient's rating of the drug on a scale of 1 to 10. Units of measurement are any number between 1 and 10.
- Input data file: The variable name, rating was taken directly from the input dataset without additional processing
- Missing observations: 9649(0)

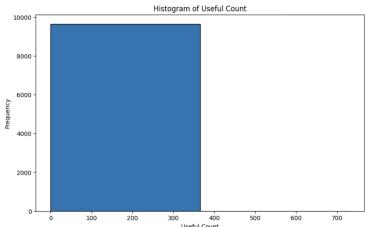
count	9648.000000	
mean	6.042289	
std	3.320338	
min	1.000000	
25%	3.000000	
50%	7.000000	
75%	9.000000	
max	10.000000	
Name:	rating, dtype:	float64



5. Variable: usefulCount

- Definition: This variable represents the number of times that other users have found the review useful.
- Input data file: The variable name, rating was taken directly from the input dataset without additional processing
- Missing observations: 9649(0)



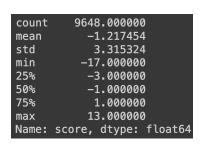


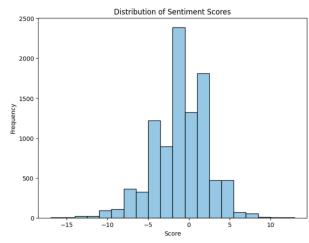
6. Variable: review.tm

- Definition: This variable represents processed text from the review column.
- Input data file: The variable name was created during sentiment analysis using the review column in the input data file. The text in the review column was processed to remove filler words, such as and, or, etc.
- Missing observations: 9649(0)

7. Variable: score

- Definition: This variable represents the overall sentiment score calculated by subtracting the negative score from the positive score.
- Input data file: This variable was created from the review column by applying a sentiment analysis model to calculate the overall sentiment of the review.
- Missing observations: 9649(0)

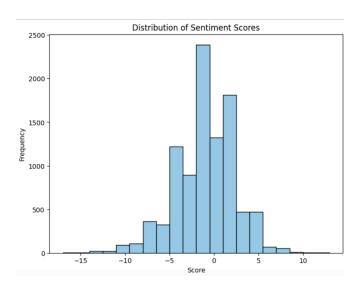




8. Variable: positive

- Definition: This variable represents the score reflecting the degree of positivity in the processed text (review.tm)
- Input data file: The positive variable was created by processing the review column using a sentiment analysis model, which counts the number of positive words in each review.
- Missing observations: 9649(0)

count	9648.000000	
mean	3.130390	
std	2.098289	
min	0.000000	
25%	2.000000	
50%	3.000000	
75%	4.000000	
max	15.000000	
Name:	positive, dtype:	float64



9. Variable: negative

- Definition: This variable represents the score reflecting the degree of negativity in the processed text (review.tm)
- Input data file: The negative variable was created by processing the review column using a sentiment analysis model, which counts the number of negative words in each review.
- Missing observations: 9649(0)

count	9648.000000	
mean	4.347844	
std	2.906416	
min	0.000000	
25%	2.000000	
50%	4.000000	
75%	6.000000	
max	18.000000	
Name:	negative, dtype:	float64

