```
Defaulting to user installation because normal site-packages is not writeable
                        Requirement already satisfied: squarify in c:\users\himan\appdata\roaming\python\python312\site-packages (0.4.4)
In [124... !pip install stemgraphic
                        Defaulting to user installation because normal site-packages is not writeable
                       Requirement already satisfied: stemgraphic in c:\users\himan\appdata\roaming\python\python312\site-packages (0.9.1)
                        Requirement already satisfied: docopt in c:\users\himan\appdata\roaming\python\python312\site-packages (from stemgraphic) (0.6.2)
                        Requirement already satisfied: matplotlib in c:\users\himan\appdata\roaming\python\python312\site-packages (from stemgraphic) (3.
                        9.1)
                        Requirement already satisfied: pandas in c:\users\himan\appdata\roaming\python\python312\site-packages (from stemgraphic) (2.2.2)
                        2)
                        Requirement already satisfied: contourpy>=1.0.1 in c:\users\himan\appdata\roaming\python\python312\site-packages (from matplotlib-
                        >stemgraphic) (1.2.1)
                        Requirement already satisfied: cycler>=0.10 in c:\users\himan\appdata\roaming\python\python312\site-packages (from matplotlib->ste
                        mgraphic) (0.12.1)
                        Requirement already satisfied: fonttools >= 4.22.0 in c: \users himan appdata roaming \python \python \site-packages (from matplotlib) from the control of the control of
                         ->stemgraphic) (4.53.1)
                        Requirement already \ satisfied: \ kiwisolver>= 1.3.1 \ in \ c:\ with an \appdata \noaming \python \python \appdata \color \co
                          ->stemgraphic) (1.4.5)
                        Requirement already \ satisfied: \ numpy>=1.23 \ in \ c:\ users \ himan\ appdata \ posming\ python\ python\ satisfied: \ numpy>=1.23 \ in \ c:\ users\ himan\ appdata\ posming\ python\ pyth
                        graphic) (1.26.4)
                        Requirement already satisfied: packaging>=20.0 in c:\users\himan\appdata\roaming\python\python312\site-packages (from matplotlib->
                        stemgraphic) (24.1)
                        Requirement already satisfied: pillow>=8 in c:\users\himan\appdata\roaming\python\python312\site-packages (from matplotlib->stemgr
                        aphic) (10.4.0)
                        Requirement already satisfied: pyparsing>=2.3.1 in c:\users\himan\appdata\roaming\python\python312\site-packages (from matplotlib-
                        >stemgraphic) (3.1.2)
                        Requirement already satisfied: python-dateutil>=2.7 in c:\users\himan\appdata\roaming\python\python312\site-packages (from matplot
                        lib->stemgraphic) (2.9.0.post0)
                        Requirement already satisfied: pytz>=2020.1 in c:\users\himan\appdata\roaming\python\python312\site-packages (from pandas->stemgra
                        phic) (2024.1)
                        Requirement already satisfied: tzdata>=2022.7 in c:\users\himan\appdata\roaming\python\python312\site-packages (from pandas->stemg
                        raphic) (2024.1)
                        Requirement already satisfied: six>=1.5 in c:\users\himan\appdata\roaming\python\python312\site-packages (from python-dateutil>=2.
                        7->matplotlib->stemgraphic) (1.16.0)
In [125... import pandas as pd
                           import numpy as np
                           import seaborn as sns
                           import matplotlib.pvplot as plt
                           import math
                           import random
                           import statistics
                           import openpvxl
                           from openpyxl.styles import PatternFill
                           import squarify
                           import stemgraphic
                           import plotly.graph objects as go
                           import plotly.express as px
                           import scipy.stats as stats
                           import mlxtend
                            from mlxtend.preprocessing import TransactionEncoder
                           from mlxtend.frequent_patterns import apriori, association_rules
                           from mlxtend.frequent_patterns import fpgrowth
                           import warnings
                           warnings.filterwarnings('ignore')
In [226... df=pd.read_csv(r"C:\Users\himan\Downloads\drugs_side_effects_drugs_com.csv")
In [127... df.head()
```

In [123... !pip install squarify

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	drug_name	$medical\_condition$	$side\_effects$	generic_name	drug_classes	$brand\_names$	activity	rx_otc	pregnancy_category	csa	alcc
0	doxycycline	Acne	(hives, difficult breathing, swelling in your	doxycycline	Miscellaneous antimalarials, Tetracyclines	Acticlate, Adoxa CK, Adoxa Pak, Adoxa TT, Alod	87%	Rx	D	N	
1	spironolactone	Acne	hives; difficulty breathing; swelling of your	spironolactone	Aldosterone receptor antagonists, Potassium-sp	Aldactone, CaroSpir	82%	Rx	C	N	
2	minocycline	Acne	skin rash, fever, swollen glands, flu- like sym	minocycline	Tetracyclines	Dynacin, Minocin, Minolira, Solodyn, Ximino, V	48%	Rx	D	N	1
3	Accutane	Acne	problems with your vision or hearing; muscle o	isotretinoin (oral)	Miscellaneous antineoplastics, Miscellaneous u	NaN	41%	Rx	х	N	
4	clindamycin	Acne	hives ; difficult breathing; swelling of your	clindamycin topical	Topical acne agents, Vaginal anti-infectives	Cleocin T, Clindacin ETZ, Clindacin P, Clindag	39%	Rx	В	N	ı
•											•

In [128... df.info()

<class 'pandas.core.frame.DataFrame'> RangeIndex: 2931 entries, 0 to 2930 Data columns (total 17 columns):

#	Column	Non-Null Count	Dtype				
0	drug_name	2931 non-null	object				
1	medical_condition	2931 non-null	object				
2	side_effects	2807 non-null	object				
3	generic_name	2888 non-null	object				
4	drug_classes	2849 non-null	object				
5	brand_names	1718 non-null	object				
6	activity	2931 non-null	object				
7	rx_otc	2930 non-null	object				
8	pregnancy_category	2702 non-null	object				
9	csa	2931 non-null	object				
10	alcohol	1377 non-null	object				
11	related_drugs	1462 non-null	object				
12	medical_condition_description	2931 non-null	object				
13	rating	1586 non-null	float64				
14	no_of_reviews	1586 non-null	float64				
15	drug_link	2931 non-null	object				
16	medical_condition_url	2931 non-null	object				
<pre>dtypes: float64(2), object(15)</pre>							
memory usage: 389.4+ KB							

In [129... df.describe

```
0
        doxycycline
                                  Acne
1
      spironolactone
                                  Acne
2
        minocycline
                                  Acne
3
           Accutane
                                 Acne
        clindamycin
4
                                  Acne
                 . . .
     benzphetamine
                           Weight Loss
2926
2927
        fenfluramine
                           Weight Loss
2928
         Fendique ER
                           Weight Loss
2929
          Imcivree
                           Weight Loss
2930
       setmelanotide
                           Weight Loss
                                           side_effects \
0
      (hives, difficult breathing, swelling in your ...
1
      hives; difficulty breathing; swelling of your...
2
      skin rash, fever, swollen glands, flu-like sym...
      problems with your vision or hearing; muscle o...
      hives; difficult breathing; swelling of your ...
      hives; difficulty breathing; swelling of your...
      hives; difficult breathing; swelling of your ...
2928
     Imcivree may cause serious side effects, inclu...
2929
     hives; difficult breathing; swelling of your ...
                  generic_name \
0
                  doxvcvcline
1
               spironolactone
                  minocycline
2
3
           isotretinoin (oral)
           clindamycin topical
4
                 benzphetamine
2926
2927
                 fenfluramine
     phendimetrazine tartrate
2928
2929
                 setmelanotide
2930
                 setmelanotide
                                           drug_classes \
            Miscellaneous antimalarials, Tetracyclines
a
1
      Aldosterone receptor antagonists, Potassium-sp...
2
                                         Tetracyclines
3
      Miscellaneous antineoplastics, Miscellaneous u...
4
           Topical acne agents, Vaginal anti-infectives
2926
                            Anorexiants, CNS stimulants
2927
      Anorexiants, CNS stimulants, Miscellaneous ant...
2928
                            Anorexiants, CNS stimulants
2929
                         Melanocortin receptor agonists
2930
                         Melanocortin receptor agonists
                                            brand_names activity rx_otc \
0
      Acticlate, Adoxa CK, Adoxa Pak, Adoxa TT, Alod...
                                    Aldactone, CaroSpir
      Dynacin, Minocin, Minolira, Solodyn, Ximino, V...
2
                                                             48%
      Cleocin T, Clindacin ETZ, Clindacin P, Clindag...
                                                             39%
                                                                    Rx
                                        Didrex, Regimex
2927
                                               Fintepla
                                                             1%
                                                                    Rx
2928
                                                   NaN
                                                              0%
                                                                     Rx
2929
                                                              0%
                                                    NaN
                                                                     Rx
2930
                                               Imcivree
                                                                     Rx
     pregnancy_category csa alcohol \
0
                     D N
                                 Х
1
                      C
                          N
                                  Х
2
                      D
                          N
                                NaN
                         N
3
                      Χ
                                 Х
4
                      В
                          Ν
                                NaN
2926
                     X
                         3
2927
                     C
                          4
2928
                      C
                          3
                                  Х
2929
                    NaN
                         N
                                NaN
2930
                    NaN
                                NaN
                                          related_drugs \
0
      amoxicillin: https://www.drugs.com/amoxicillin...
1
      amlodipine: https://www.drugs.com/amlodipine.h...
2
      amoxicillin: https://www.drugs.com/amoxicillin...
      doxycycline: https://www.drugs.com/doxycycline...
4
      doxycycline: https://www.drugs.com/doxycycline...
2926
     phentermine: https://www.drugs.com/phentermine...
2927
2928
      phentermine: https://www.drugs.com/phentermine...
2929
      phentermine: https://www.drugs.com/phentermine...
     phentermine: https://www.drugs.com/phentermine...
```

drug name medical condition \

Out[129... <bound method NDFrame.describe of

```
medical_condition_description rating \
          0
                Acne Other names: Acne Vulgaris; Blackheads; B...
                                                                       6.8
          1
                Acne Other names: Acne Vulgaris; Blackheads; B...
                                                                       7.2
                Acne Other names: Acne Vulgaris; Blackheads; B...
          2
                                                                       5.7
           3
                Acne Other names: Acne Vulgaris; Blackheads; B...
                                                                       7.9
           4
                Acne Other names: Acne Vulgaris; Blackheads; B...
                                                                       7.4
           2926
                Weight Loss (Obesity/Overweight) More than hal...
                                                                       7.5
           2927
                Weight Loss (Obesity/Overweight) More than hal...
                                                                       NaN
           2928
                Weight Loss (Obesity/Overweight) More than hal...
                                                                       NaN
           2929
                Weight Loss (Obesity/Overweight) More than hal...
                                                                       NaN
           2930 Weight Loss (Obesity/Overweight) More than hal...
                                                                       NaN
                 no_of_reviews
                                                                        drug_link \
          0
                        760.0
                                          https://www.drugs.com/doxycycline.html
          1
                        449.0
                                       https://www.drugs.com/spironolactone.html
           2
                        482.0
                                           https://www.drugs.com/minocycline.html
                        623.0
                                             https://www.drugs.com/accutane.html
           3
           4
                        146.0 https://www.drugs.com/mtm/clindamycin-topical....
                         17.0
                                     https://www.drugs.com/mtm/benzphetamine.html
           2927
                          NaN
                                     https://www.drugs.com/mtm/fenfluramine.html
           2928
                          NaN
                                      https://www.drugs.com/pro/fendique-er.html
           2929
                          NaN
                                              https://www.drugs.com/imcivree.html
           2930
                          NaN
                                     https://www.drugs.com/mtm/setmelanotide.html
                                       medical condition url
           0
                   https://www.drugs.com/condition/acne.html
                    https://www.drugs.com/condition/acne.html
          1
                   https://www.drugs.com/condition/acne.html
           2
                    https://www.drugs.com/condition/acne.html
           3
           4
                   https://www.drugs.com/condition/acne.html
           2926 https://www.drugs.com/condition/obesity.html
                https://www.drugs.com/condition/obesity.html
           2927
           2928 https://www.drugs.com/condition/obesity.html
                https://www.drugs.com/condition/obesity.html
           2929
          2930 https://www.drugs.com/condition/obesity.html
           [2931 rows x 17 columns]>
In [130... print(f"row= {df.shape[0]}\ncolumns= {df.shape[1]}")
         row= 2931
         columns= 17
In [131... df.isna().sum()
Out[131... drug_name
                                              0
           medical condition
                                              0
          side effects
                                             124
           generic name
                                              43
           drug_classes
                                              82
           brand_names
                                            1213
           activity
                                              0
           rx_otc
                                              1
          pregnancy_category
                                             229
           csa
                                              a
           alcohol
                                            1554
           related_drugs
                                            1469
           medical_condition_description
                                              a
           rating
                                            1345
           no_of_reviews
                                            1345
           drug_link
                                              0
           medical_condition_url
                                              0
           dtype: int64
In [228...
         df=df.drop(['drug_link','medical_condition_url'],axis=1)
         df[['pregnancy_category', 'alcohol']]=df[['pregnancy_category', 'alcohol']].fillna(0)
In [230...
         df.head()
In [134...
```

for aa in range(len(str(df["related\_drugs"][i]))): if str(df["related\_drugs"][i])[aa] == ":":

```
strings.append(string)
                        string =
                        break
                    else:
                        string += str(df["related_drugs"][i])[aa]
               string = "
               for j in range(len(str(df["related_drugs"][i]))):
                   if str(df["related_drugs"][i])[j] == "|":
                        for k in range(j+2, len(str(df["related_drugs"][i]))):
                            if str(df["related_drugs"][i][k]) == ":"
                                strings.append(string)
                                 string =
                                 break
                            else:
                                 string += str(df["related_drugs"][i][k])
               related_drugs.append(strings)
In [140... df.columns
Out[140... Index(['drug_name', 'medical_condition', 'side_effects', 'generic_name',
                   'drug_classes', 'brand_names', 'activity', 'rx_otc', 'pregnancy_category', 'csa', 'alcohol', 'related_drugs'
                   'medical_condition_description', 'rating', 'no_of_reviews'],
                  dtype='object')
In [142... import nltk
           nltk.data.clear_cache()
In [143...
          import nltk
           nltk.download('punkt')
          [nltk_data] Downloading package punkt to
          [nltk_data]
                        C:\Users\himan\AppData\Roaming\nltk_data...
         [nltk_data] Package punkt is already up-to-date!
Out[143...
In [144... import nltk
           nltk.download('punkt')
          [nltk_data] Downloading package punkt to
          [nltk_data]
                        C:\Users\himan\AppData\Roaming\nltk_data...
         [nltk_data] Package punkt is already up-to-date!
Out[144... True
In [232... import re
           import string
           from nltk.corpus import stopwords
           # Load English stopwords
           stop_words = set(stopwords.words("english"))
           # Tokenization Function
           def tokenize(document):
               document = str(document).lower() # Convert to Lowercase
               tokenized = re.findall(r'\b\w+\b', document) # Tokenize without punkt
               # Remove stopwords and punctuation
               words = [
                   word for word in tokenized
                    if word not in stop_words and word not in string.punctuation
               return list(set(words)) # Return unique words
           # Ensure unique medical conditions
           med_con = df["medical_condition"].unique()
           # Extract one description per condition
           medical_condition_descriptions = []
           for condition in med con:
               match = df[df["medical_condition"] == condition]
               if not match.empty:
                   {\tt medical\_condition\_descriptions.append(match["medical\_condition\_description"].values[0])}
           # Tokenize each description
           tokenized_medical_condition_descriptions = [
               tokenize(\texttt{desc}) \ \ \textbf{for} \ \ \texttt{desc} \ \ \underline{\textbf{in}} \ \ \texttt{medical\_condition\_descriptions}
           # Optional: Display results
           \begin{tabular}{ll} \textbf{for i, tokens in enumerate} (tokenized\_medical\_condition\_descriptions): \\ \end{tabular}
               print(f"{med_con[i]}: {tokens}")
```

```
Acce: ['mild', 'seeing', 'surface', 'squeeze', 'permanent', 'close', 'soon', 'hormonal', 'pick', 'clears', 'oily', 'injections', 'ingredients', 'traped', 'clogged', 'counter', 'father', 'applied', 'twice', 'lotions', 'uncle', 'environment', 'irritation', 'co stantly', 'cleanser', 'resulting', 'therapy, '38', 'appear', 'caused', 'standards', 'food', 'beds', 'all', 'styr', 'argay,' 'l umps', 'headbands', 'hormones', 'palmitate', 'back', 'proactive', 'gels', 'contain', 'onset', 'hair', 'avoid', 'filled', 'care', 'small', 'ge', 'lot', 'become', 'peroide', 'sodium', 'erecorrical', 'condition', 'dark', 'dapsone', 'beenath', 'avoid', 'filled', 'care', 'small', 'ge', 'lot', 'become', 'peroide', 'solium', 'perocrical', 'condition', 'dark', 'dapsone', 'beheath', 'dark', 'stopical', 'chances', 'liristate', 'gently', 'doctor', 'vary', 'redmess', 'preceriton', 'clogging', 'st earate', 'tends', 'feel', 'develop', 'suffer', 'girls', 'photodynamic', 'uncomon', '7', 'worker', '485', 'treatments', 'live', 'see', 'gentle', 'step', 'small', 'bust', 'production', 'small', 'small
  identical, 'genetics', 'manage', 'predominantly', 'case', 'traumatic', 'daydreaming', 'education', 'predominant', 'behavior', 'als ogin', 'mistakes', particularly', 'doctor, 'alchoolt', 'symptoms', 'inatentive', 'diagnosed', 'characteristic', 'answers', 'als o', 'atomoxetine', 'races', 'likely', 'experts', 'birth']
AIDS/HIN: ['develop', 'system', 'originally', 'depending', '1970s', 'mild', 'protection', 'swollen', 'multiply', 'used', 'persiste nt', 'surface', 'america', 'illness', 'progresses', 'nodes', 'version', 'human', 'contracting', 'easily', 'feeding', 'screen', 'chronic', 'following', 'contact', 'years', 'immune', 'treatments', 'body', 'follows', 'institution', 'contracting', 'easily', 'feeding', 'screen', 'chronic', 'following', 'contact', 'years', 'immune', 'treatments', 'domentically', 'sympesses', 'two', 'people', 'screen', 'chronic', 'fellowing', 'contact', 'years', 'immune', 'treatments', 'domentically', 'sympesses', 'severe', 'iv', 'people', 'loss', 'drug', 'infect', 'paraphernalla', 'continues', 'swelling', 'sexually', 'names', 'stand', 'loss', 'drug', 'infectiony', 'nesce', 'infection', 'restain', 'acquire', 'attacks', 'states', 'fever', 'fatigue', 'matter', 'mmunodefriclency', 'oral', 'seven', 'present', 'condoms', 'non', 'treated', 'grouped', 'effective', 'referred', 'attachment', 'phase', 'Common', 'medit', 'slow', 'probably', 'acute', 'blood', 'complex', 'passing', 'paintul', 'stand', 'stand', 'shan', 'throat', 'known', 'antibodies', 'stis', 'relatively', 'mutated', 'anoth', 'en', 'main', 'initially', 'strand', 'infects', 'rash', 'clinical', 'show', 'gateway', 'sexuall', 'yepe', 'siminn', 'days', 'act', 'preference', 'aches', 'nnrtis', 'count', 'lymph', 'syndrome', 'acquired', 'treat', 'art', 'area', 'start', 'small', 'aday', 'medit', 'nngress', 'said', 'hugging', 'cannot', 'eg', 'left', 'läßes', 'becart', 'art', 'she', 'progress', 'said', 'hugging', 'cannot', 'eg', 'left', 'läßes', 'becart', 'art', 'spe', 'simin', 'days', 'act', 'preference', 'san', 'shown', 'gatery, 'ben', 'san', 'shown', 
                   'always', 'life', 'harmful']
               Alzheimer's: ['appearance', 'leading', 'unusual', 'characterised', 'disease', 'nerve', 'death', 'dementia', 'memory', 'neurodegene rative', 'function', 'recognised', 'filaments', 'language', 'cause', 'several', 'cells', 'sdat', 'helical', 'protein', 'areas', 's
```

```
enile', 'alzheimer', 'brain', 'cognitive', 'unknown', 'type', 'presenile', 'loss', 'cell', 'progressive', 'names']
Angina: ['pressure', 'narrowed', 'many', 'supply', 'ischemia', 'get', 'medical', 'symptom', 'disease', 'happens', 'arteries', 'oxy
gen', 'inflammation', 'term', 'stable', 'much', 'one', 'typical', 'types', 'arm', 'usually', 'squeezing', 'jaw', 'new', 'reflux',
'condition', 'called', 'shoulder', 'pain', 'blocked', 'progressive', 'muscle', 'blood', 'chronic', 'myocardial', 'chest', 'occur
s', 'neck', 'related', 'back', 'insufficient', 'needs', 'hence', 'infection', 'felt', 'myocardium', 'coronary', 'accelerating', 'c
enter', 'angina', 'unstable', 'due', 'vessels', 'uncomfortable', 'may', 'lung', 'discomfort', 'also', 'pains', 'onset', 'acid', 'h
eart', 'examples', 'pectoris', 'fullness', 'heartburn', 'names']
Anxiety: ['pressure', 'workloads', 'months', 'strong', 'mostly', 'today', 'severity', 'medical', 'worry', 'stressor', 'whether',
'safety', 'separation', 'treatments', 'however', 'disorder'. 'body'. 'nerves'. 'gradually'. 'worried'. 'involve'. 'thoughts'. 'mai
 Anxiety: ['pressure', 'workloads', 'months', 'strong', 'mostly', 'today', 'severity', 'medical', 'worry', 'stressor', 'whether', 'safety', 'separation', 'treatments', 'however', 'disorder', 'body', 'nerves', 'gradually', 'worried', 'involve', 'thoughts', 'maj or', 'high', 'concentrating', 'flight', 'interfering', 'danger', 'uncontrollable', 'mental', 'members', 'chronic', 'generalized', 'relationship', 'years', 'treatment', 'adrenal', 'edge', 'abuse', 'restlessness', 'accompanied', 'threats', 'changes', 'stressfu l', 'increases', 'therapy', 'opioids', 'severe', 'people', 'result', 'survival', 'appropriate', 'sleep', 'trouble', 'occasional', 'avoidance', 'come', 'responds', 'names', 'physical', 'levels', 'states', 'stomach', 'often', 'flee', 'conditions', 'little', 'on e', 'causes', 'support', 'fatigue', 'part', 'depends', 'phobias', 'present', 'social', 'original', 'breathing', 'treated', 'ones', 'concerning', 'negative', 'us', 'depression', 'circumstances', 'blood', 'proportion', 'response', 'medications', 'counseling', 'ep inephrine', 'adjustments', 'emotion', 'event', 'mutism', 'family', 'anxieties', 'selective', 'cognitive', 'headaches', 'type', 'un comfortable', 'heartbeat', 'restricted', 'perceive', 'imagery', 'trembling', 'disorders', 'trigger', 'substance', 'withdrawing', 'upset', 'continuously', 'stress', 'events', 'characterized', 'difficulty', 'exercise', 'feeling', 'techniques', 'feelings', 'indi vidual', 'attack', 'sensitivity', 'lifestyle', 'movement', 'everyday', 'way', 'condition', 'called', 'might', 'adrenaline', 'persp iration', 'difficulties', 'pain', 'surge', 'friends', 'prepares', 'last', 'glands', 'management', 'tension', 'money', 'lon
   Vidual, attack, sensitivity, lifestyle, movement, everyday, way, condition, called, might, adrenaline, persp iration', 'difficulties', 'pain', 'surge', 'friends', 'prepares', 'last', 'glands', 'management', 'even', 'tension', 'money', 'lon g', 'relaxation', 'fight', 'risk', 'worrying', 'rapid', 'emotions', 'may', 'gad', 'increased', 'behavioral', 'almost', 'usually', 'minor', 'disproportionate', 'confrontation', 'excessive', 'include', 'surroundings', 'anxiety', 'ongoing', 'cause', 'normal', 'fe els', 'stimulus', 'person', 'substances', 'jobs', 'interferes', 'hours', 'potentially', 'rather', 'experienced', 'irritability', 'traumatic', 'problems', 'positive', 'around', 'day', 'fear', 'voice', 'encounter', 'work', 'revolve', 'alcohol', 'quivering', 're placing', 'nervousness', 'symptoms', 'sweating', 'significant', 'diagnosed', 'triggers', 'health', 'whose', 'also', 'panic', 'lif
placing', 'nervousness', 'symptoms', 'sweating', 'significant', 'diagnosed', 'triggers', 'health', 'whose', 'also', 'panic', 'life', 'likely', 'daily', 'harmful']

Asthma: ['coughing', 'wheezing', 'shortness', 'induced', 'inflammatory', 'bronchial', 'airways', 'asthma', 'exercise', 'characteri zed', 'attacks', 'breath', 'chest', 'tightness', 'periodic', 'disorder', 'names']

Bipolar Disorder: ['antipsychotics', 'develop', 'months', 'depending', 'mild', 'affective', 'used', 'irritable', 'severity', 'amon g', 'illness', 'scattered', 'member', 'close', 'progresses', 'experiencing', 'super', 'treatments', 'disorder', 'however', 'activi ty', 'much', 'noradrenaline', 'antidepressant', 'hard', 'high', 'seem', 'step', 'specifically', 'order', 'ever', 'range', 'situati on', 'relationship', 'important', 'routines', 'genetic', 'treatment', 'recognize', 'manic', 'mood', 'abuse', 'fluctuate', 'thinkin g', 'breakdown', 'stressful', 'changes', 'unknown', 'therapy', 'severe', 'spent', 'people', 'Slight', 'instigation', 'catapult', 'sleep', 'cyclothymic', 'names', 'emotional', 'mixed', 'beliefs', 'aims', 'link', 'physical', 'levels', 'agents', 'improve', 'ofte n', 'disruptions', 'little', 'one', 'causes', 'support', 'take', 'form', 'without', 'stabilizing', 'social', 'state', 'nowadays', 'treated', 'bed', 'effective', 'negative', 'depression', 'several', 'phase', 'hypomania', 'common', 'hopelessness', 'mania', 'medi cations', 'painful', 'family', 'needs', 'relatively', 'experience', 'another', 'loved', 'depressive', 'initially', 'mainly', 'cogn itive', 'reflect', 'false', 'type', 'sexual', 'challenges', 'days', 'lives', 'different', 'episodes', 'looks', 'change', 'charge d', 'medication', 'educating', 'focused', 'extreme', 'feeling', 'nengy', 'get', 'full', 'time', 'milder', 'feelings', 'slightly', 'downs', 'misdiagnosis', 'patterns', 'balance', 'reality', 'type', 'become', 'disturbances', 'fully', 'ii', 'thought', 'condition', 'called', 'delusions', 'circumstance', 'unproductive', 'fun', 'significantly', 'dopmaine', 'good', 'e
       e', 'likely', 'daily', 'harmful']
 lucinations', 'involves', 'symptoms', 'despair', 'psychotic', 'refusal', 'also', 'peaks', 'interpersonal', DIOWIL, ILKELY, Cycling', 'recognized']

Bronchitis: ['exam', 'develop', 'system', 'mild', 'months', 'pollution', 'feel', 'bronchial', 'partake', 'pulmonary', 'warm', 'vir uses', 'lingers', 'exposed', 'follows', 'treatments', 'associated', 'activity', 'live', 'increase', 'thicker', 'high', 'see', 'lea st', 'couple', 'easily', 'blame', 'respiratory', 'gastroesophageal', 'chemical', 'chronic', 'bronchodilators', 'pneumonia', 'year s', 'carry', 'immune', 'treatment', 'productive', 'areas', 'infection', 'reduce', 'accompanied', 'moist', 'two', 'severe', 'peopl e', 'cases', 'rehabilitation', 'weeks', 'sleep', 'exercises', 'humidifiers', 'produce', 'fumes', 'weak', 'listen', 'airways', 'dis colored', 'physical', 'bronchitis', 'caused', 'streaked', 'often', 'help', 'inflammation', 'lungs', 'affects', 'conditions', 'on e', 'causes', 'stethoscope', 'night', 'outside', 'fatigue', 'fever', 'bacteria', 'ones', 'without', 'rarely', 'referred', 'copd', 'several', 'instead', 'blood', 'acute', 'grey', 'medications', 'trachea', 'production', 'lining', 'irritants', 'shortness', 'typ e', 'better', 'perform', 'days', 'diagnosis', 'windpipe', 'mucus', 'included', 'treat', 'benefit', 'get', 'ability', 'left', 'sput um'. 'drinks'. 'others', 'condition', 'period', 'obstructive', 'persists', 'three', 'antibiotics', 'lemon', 'chest', 'nagging', 's
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Cancer: ['cancer', 'names', 'malignant', 'uncontrolled', 'tumor', 'tumour', 'disease', 'abnormal', 'growth', 'cells', 'resulting', 'cancingma'!
       Cholesterol: ['acquired', 'characterized', 'levels', 'group', 'present', 'familial', 'high', 'elevated', 'substances', 'hyperchole sterolemia', 'cholesterol', 'cholesteremia', 'blood', 'excess', 'fatty', 'lipid', 'metabolism', 'cholesterolemia', 'hyperlipidemi
       a', 'triglycerides', 'lipoproteins', 'disorders', 'names']

Colds & Flu: ['5', 'characterized', 'involving', 'malaise', '3', 'coryza', 'rhinorrhea', 'common', 'watery', 'respiratory', 'durat ion', 'general', 'viral', 'congestion', 'membrane', 'upper', 'infection', 'nasal', 'mucous', 'symptoms', 'days', 'tract', 'cold',
lon', general', Viral', congestion', membrane', upper', infection', hasal', mucous', symptoms', uays', tract', cold', 'names']

Constipation: ['mild', 'depending', 'cancer', 'ulcerative', 'used', 'feces', 'irritable', 'fewer', 'consumption', 'history', 'bisa codyl', 'transit', 'becomes', 'experiencing', 'term', 'treatments', 'bloating', 'body', 'activity', 'gp', 'rectal', 'hard', 'gener ally', 'see', 'least', 'absorb', 'defined', 'abdominal', 'counter', 'removes', 'infrequency', 'like', 'following', 'fibers', 'prev enting', 'pass', 'lubricate', 'vegetables', 'trauma', 'muscles', 'intake', 'impaction', 'toilet', 'abuse', 'think', 'reduce', 'lac tulose', 'psyllium', 'opioids', 'lack', 'inflammatory', 'movements', 'people', 'loss', 'colon', 'result', 'stools', 'hardened', 'n ames', 'calcium', 'either', 'diet', 'weak', 'reason', 'many', 'physical', 'rectocele', 'caused', 'spinal', 'pelvic', 'injuries', 'food', 'occur', 'conditions', 'bulk', 'lumpy', 'fissures', 'causes', 'pregnancy', 'fecal', 'something', 'repeated', 'straining', 'take', 'part', 'performed', 'treated', 'laxative', 'fluid', 'protrude', 'unripe', 'dry', 'constipation', 'common', 'meat', 'slo w', 'stroke', 'passing', 'hormones', 'longer', 'blood', 'medications', 'stuck', 'emollient', 'milk', 'empty', 'experience', 'pus h', 'swell', 'making', 'waste', 'perform', 'softer', 'bananas', 'different', 'look', 'fiber', 'constipated', 'syndrome', 'resolv e', 'diabetes', 'neurological', 'treat', 'difficulty', 'exercise', 'feeling', 'parkinson', 'red', 'diuretics', 'softeners', 'under lying', 'left', 'docusate', 'types', 'fully', 'forming', 'movement', 'irregularity', 'hypothyroidism', 'called', 'causing', 'soli d', 'intestine', 'observe', 'improving', 'sclerosis', 'pain', 'foods', 'cord', 'dehydration', 'worked', 'three', 'fruit', 'evervy, 'less', 'emptying', 'gastrointestinal', 'prolapse', 'moisten', 'diseases', 'multiple', 'alternates', 'contraction', 'easier', 'po o', 'describe', 'brain', 'doe', 'may', 'diarrhea', 'senna', 'questions', 'soften', 'bowels', 'f
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COPD: ['characterized', 'destruction', 'group', 'bronchitis', 'pulmonary', 'disease', 'sack', 'airflow', 'degrees', 'copd', 'obstr
uctive', 'common', 'limited', 'chronic', 'diseases', 'tissue', 'enlargement', 'obstruction', 'lung', 'air', 'variable', 'forms',
'airway', 'emphysema', 'names']
Covid 19: ['mild', 'originally', 'system', 'cancer', 'influenza', 'formulation', 'used', 'cocktail', 'cov555', 'third', 'planned',
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terventions', 'corv', 'different', 'chile', 'partial', '7010', '0051', 'colony', 'capsule', 'pf', 'east', 'incompetent', 'varyin g', 'application', 'area', 'html', 'bnt162b2', 'janssen', 'posts', '15', 'csf', 'tixagevimab', 'methylprednisolone', 'require', 's tudies', 'individual', 'ill', 'regulatory', 'types', 'india', 'rvsv', 'unlikely', 'amendment', 'lupus', 'separately', 'union', 'ba ricitinib', 'receiving', 'cholesterol', 'gene', 'united', '50', 'pakvac', 'peginterferon', 'information', 'medicine', 'gm', 'medit erranee', '10', 'less', 'icu', 'hospitalisation', 'rlf', 'bebtelovimab', 'outbreak', 'releases', 'vaccineshttps', 'coronaviruses', 'd8110c00001', 'deterioration', 'initiate', 'mers', 'flu', 'currently', 'dist', 'vector', 'plasma', 'guideline', 'announced', 'org anizations', 'ly', 'yet', 'vac', 'cdc', 'inappropriate', 'cytokines', 'randomised', 'vxa', 'recommends', '2002', 'spectra', 'inclu de', 'switch', 'disease', 'operation', 'opinion', 'trial', 'death', 'inhibitor', 'zithromax', 'ribonucleoside', 'assessment', 'azi trhomy', 'received', 'requirement', 'enter', 'fujifilm', 'injury', 'covid', 'monotherapy', 'umifenovir', 'int', '20031096v2', 'app roximately', 'regen', 'tolerated', 'covac1', 'binding', 'zika', 'nanoparticle', 'protease', 'ino', 'alveolar', 'showed', 'delta', 'medrxiv', 'neutralizing', 'day', 'dexamethasone', 'metabolism', 'com', 'vaccines', 'glycoprotein', 'protect', '40kg', 'nursing', 'lagevrio', 'advanced', 'therapeutics', 'authorisation', 'determine', 'authorised', 'department', 'edu', 'potential', 'biotech', 'april', 'symptoms', 'glenmark', 'significant', 'urokinase', 'sarilumab', '62', 'modified', 'spike', '1101', 'single', 'checkpoin t', 'shanghai', 'bangkok', 'time', 'nct04273321', 'february', 'antigen']

Depression: ['feel', 'prolonged', 'psychotherapy', 'depending', 'whereas', 'develop', 'learning', 'persistent', 'occasionally', 'a
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Depression: ['feel', 'prolonged', 'psychotherapy', 'depending', 'whereas', 'develop', 'learning', 'persistent', 'occasionally', 'a busing', 'coping', 'history', '1', '7', 'medical', 'worry', 'well', 'complete', 'previously', 'treatments', 'disorder', 'undergoin g', 'call', 'inhibitors', 'destructive', 'drugs', 'job', 'sense', 'org', 'major', 'exactly', 'thoughts', 'confidential', 'treatable e', 'high', 'tcas', 'least', 'mental', 'chronic', '800', 'sure', 'years', 'skills', 'genetic', 'chat', 'treatment', 'online', 'think', 'mood', 'abuse', 'taking', 'restlessness', 'socially', 'changes', 'severe', 'unexplained', 'people', 'loss', 'drug', 'snris', 'weeks', 'result', 'tearfulness', 'avoidance', 'actions', '45', 'children', 'patients', 'goals', 'physical', 'eating', 'crises', 'make', 'help', 'suicide', 'free', 'interact', 'conditions', 'affects', 'sleeping', 'combination', 'causes', 'one', '8255', 'tak e', 'first', 'bring', 'fatigue', 'professional', 'effect', 'ones', 'social', 'treated', 'try', 'negative', 'faulty', 'blue', 'depr ession', 'reuptake', 'several', 'worth', 'strategies', 'grief', 'personality', 'tricyclic', 'hopelessness', 'acute', 'longer', '2', 'medications', 'solving', 'event', 'back', 'family', 'loved', 'depressive', 'seletrive', 'activities', 'clinical', 'aged', 'headaches', 'clinigness', 'treastes', 'prevention', 'find', 'days', 'different', 'enjoyed', 'aches', 'talk', 'realistic', 'substance', 'withdrawal', 'sadness', 'stress', 'characterized', 'difficulty', '6', 'factors', 'feeling', relationships', '64', 'full', 'situations', 'school', 'refer', 'things', 'lasted', 'feelings', 'engaging', 'risky', 'diagnose', 'typesy, 'living', 'respond', 'harm', 'maois', 'others', '273', 'women', 'adults', 'condition', 'called', 'period', 'difficulties', 'pain', 'friends', '50', 'attempts', 'habits', 'othoru
Notion of the products of this products of this products of the products of the product of the p
             'hormone', 'meet', 'names']
     Eczema: ['mild', 'groups', 'flame', 'group', 'itchy', 'severity', 'care', 'disease', 'conditions', 'inflammation', 'broken', 'name s', 'whilst', 'become', 'eczema', 'bleeding', 'look', 'dermatitis', 'called', 'atopic', 'dry', 'unpleasant', 'though', 'sometime s', 'treatment', 'skin', 'infantile', 'raw', 'affect', 'vary', 'although', 'reduced', 'hot', 'severe', 'sensitive', 'need', 'alway s', 'forms', 'ups', 'discoid', 'extra', 'contagious', 'age']
         Erectile Dysfunction: ['impotence', 'used', 'sufficient', 'commonly', 'differentiate', 'term', 'consistent', 'intercourse', 'mal e', 'inability', 'medically', 'problems', 'known', 'erectile', 'dysfunction', 'interfere', 'sexual', 'sustain', 'also', 'erectio
         n'. 'ed'. 'names'l
       Gastrointestinal: ['medicine', 'injury', 'intestines', 'physical', 'gastrointestinal', 'treatment', 'stomach', 'relating', 'see', 'also', 'branch', 'disease', 'deformity', 'surgery', 'operation', 'disorders', 'manipulation', 'concerned']

GERD (Heartburn): ['esophagus', 'gerd', 'acidic', 'stomach', 'often', 'disease', 'food', 'reflux', 'pyrosis', 'causing', 'digeste d', 'gastroesophageal', 'travels', 'irritate', 'esophageal', 'back', 'tube', 'material', 'mouth', 'symptoms', 'acid', 'partially', 'liquid', 'usually', 'heartburn', 'names']
 u, gastroesopnageai, traveis, irritate, esopnageai', 'back', 'tube', 'material', 'mouth', 'symptoms', 'acid', 'partially', 'liquid', 'usually', 'heartburn', 'names']

Gout: ['feel', 'system', 'swollen', 'modern', 'cancer', 'urine', 'level', 'product', 'used', 'mostly', 'kidneys', 'medical', 'inte nse', 'spirits', 'reaches', 'ankles', 'dairy', 'treatments', 'however', 'body', 'deposits', 'associated', 'sweetened', 'example', 'fresh', 'gout', 'man', 'hmong', 'chemotherapy', 'drugs', 'fat', 'knees', 'crystallizes', 'febuxostat', 'high', 'see', 'reducing', 'chalk', 'formed', 'beverages', 'like', 'frequently', 'kidney', 'hyperuricemia', 'relationship', 'wrists', 'immune', 'treatment', 'aim', 'fighting', 'ethnicities', 'white', 'containing', 'vegetables', 'intake', '12', 'increases', 'changes', 'inflammatory', 'pe ople', 'doctors', 'meats', 'complications', 'categorized', 'collect', 'come', 'swelling', 'feet', 'either', 'diet', 'research', 'c ertain', 'levels', 'joints', 'attacks', 'irreversible', 'improve', 'plenty', 'commonly', 'food', 'occur', 'conditions', 'inflammat ion', 'little', 'relieve', 'formation', 'causes', 'future', 'stone', 'first', 'outside', 'allopurinol', 'seven', 'treated', 'limi t', 'overindulge', 'lmol', 'ideally', 'effective', 'tended', 'meat', 'nine', 'prevent', 'blood', 'longer', 'shows', 'radiation', 'mussels', 'medications', 'peak', 'chips', 'resolves', 'acute', 'overweight', 'difficult', 'l', 'skin', 'wealth', 'experience', 'b ig', 'production', 'waste', 'islanders', 'sardines', 'sardines', 'sardines', 'verevight', 'difficult', 'l', 'skin', 'wealth', 'experience', 'b ig', 'production', 'waste', 'islanders', 'sardines', 'source', 'anti', 'type', 'pacific', 'chinese', 'stones', 'days', 'top hi', 'excreted', 'diagnosis', 'examples', 'fructose', 'look', 'everybody', 'access', 'clear', 'nonsteroidal', 'probenecid', 'bee r', 'avoid', 'crystals', 'contribute', 'damage', 'treat', '6', 'use', 'factors', 'exercise', 'get', 'copious', 'red', 'small', 'ti mes', 'diuretics', 'lose', 'found', 'risk', 'ho
     ter', 'toe', 'alcoholic', 'eat', 'low', 'bread', 'medicines', 'include', 'disease', 'liver', 'americans', 'cut', 'carbohydrates', 'four', 'cause', 'normal', 'sudden', 'ear', 'weight', 'sabstances', 'seafood', 'african', 'hours', 'processed', 'go', '360', 'hand s', 'sometimes', 'menopause', 'rice', 'around', 'herring', 'particularly', 'doctor', 'removal', 'purine', 'alcohol', 'afflict', 's uddenly', 'tender', 'redness', 'men', 'organ', 'episode', 'dinners', 'corticosteroids', 'affected', 'also', 'passes', 'sucrose', 'aspirin', 'block', 'likely', 'amounts', 'nsaids', 'tends']
Hair Loss: ['1', 'permanent', 'normally', 'baldness', 'administered', 'chemotherapy', 'present', '2', 'radiation', 'absence', 'bal
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ding', 'alopecia', 'areata', 'female', 'skin', 'areas', 'pattern', 'therapy', 'temporary', 'loss', 'result', 'head', 'usually', 'h air', 'names']
        Hayfever: ['nose', 'certain', 'seasonal', 'occur', 'collection', 'pollens', 'fever', 'exposure', 'rhinitis', 'dander', 'see', 'all ergies', 'substances', 'hay', 'predominantly', 'mold', 'allergy', 'allergic', 'nasal', 'airborne', 'dust', 'plants', 'symptoms', 'asthma', 'people', 'particles', 'also', 'eyes', 'names']
Herpes: ['docosanol', 'clearly', 'cultural', '5', 'used', 'host', 'generics', 'abreva', 'depend', '1', 'b', '7', 'well', 'medica
ergies', 'substances', 'hay', 'predominantly', 'mold', 'sallergy', 'sllergic', 'nasal', 'airborne', 'dust', 'plants', 'symptoms', asthma', 'people', 'particles', also', 'eyes', 'mases', 'breva', 'depend', 'l', 'b', '?', 'well', 'medica' |
'l', 'browse', 'viruses', 'schedule', 'e', 'safety, 'quest', 'human', 'treatments', 'howevew', 'page', 'activity', '3', 'drugs', 'brands', 'high', 'benefits', 'consult', 'subject', 'k', 'counter', 'animal', 'professionals', 'congenital', 'limited', 'g', 'freq uently', 'anedotal', 'following', 'hepres', 'label', 'treatment', 'u', 'users', 'authorization', 'noncoided', 'unknown', 'lack', 'humans', 'sewere', 'category', 'classified', 'acyclovir', 'abnormalities', 'drug', 'learn', 'natural', 'interactions', 'ratings', 'complications', 'controlled', 'mucocutaneous', 'h', 'data', 'names', 'ensure', 'r
x', 'efficacy', 'degree', 'warrant', 'recent', 'strength', 'physical', 'agents', 'caused', 'states', 'supervision', 'guides', 'fet al', 'listed', 'despite', 'options', 'reaction', 'affects', pregnancy, 'first', 'effect', 'forma', moderate', 'name', 'current', 'accepted', 'healthcare', 'ahfs', 'effective', 'phenol', 'disclaimer', 'hide', 'brand', 'nestrictions', 'cirumatances', 'prescribing', '2', 'class', medications', 'visitor', 'later', 'related', 'l', 'fda', 'scientifically', 'primarily', 'based', 'experience', 'system', 'state', 'related', 'l', 'show', 'effects', 'considering', 'authorine', 'available', 'act', 'w', 'demonstrated', 'consumers', 'f', 'medication', 'use', 'euc', 'falled', '0', 'remedies', 'infectives', '6', 'area', 'care, 'risk', 'c', 'j', 'unapproved', 'simplex', 'studies', 'alternative', 'select', 'adverses', 'filter', 'allomostions', 'pregnant', 'currently', '94', '14', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', '16', 
    's separate, doctor, Talls, work, 129, alconol, untreated, 120, symptoms, diagnosed, ace, whose, also, 'efficiently', 'heart', 'likely', 'experts', 'losing']

Hypothyroidism: ['develop', 'located', 'level', 'essentially', 'controls', 'menstrual', 'swollen', 'ankle', 'measure', 'persisten t', 'needed', 'permanent', 'inspect', 'well', 'among', 'bloating', 'tsh', 'body', 'cry', 'puffy', 'liothyronine', 'carpal', 'lower s', 'enough', 'gland', 'see', 'feeding', 'congenital', 'replacement', 'sure', 'taking', 'front', 'changes', 'tone', 'unexplained', 'people', 'loss', 'sleepiness', 'baby', 'floppy', 'serum', 'swelling', 'produce', 'feet', 'names', 'weak', 'levels', 'slowly', 'st omach', 'often', 'make', 'food', 'abnormal', 'conditions', 'little', 'one', 'pregnancy', 'fatigue', 'part', 'suspect', 'oral', 'th yroid', 'treated', 'processes', 'growth', 'rate', 'butterfly', 'dry', 'gain', 'constipation', 'common', 'depression', 'slow', 'mus cle', 'hormones', 'poor', 'blood', 'medications', 'neck', 'gained', 'dosages', 'known', 'skin', 'jaundice', 'based', 'underactiv e', 'functioning', 'examine', 'diagnosis', 'slows', 'shaped', 'hormone', 'hair', 'ordered', 'syndrome', 'use', 'vague', 'cycle', 'difficulty', 'extreme', 'energy', 'synthetic', 'small', 'appointment', 'possibly', 'become', 'liotrix', 'respond', 'sensitivity', 'women', '3000', 'condition', 'hypothyroidism', 'called', 'tongue', 'burn', 'cholesterol', 'foods', 'cells', 'enlarged', 'obviou s', 'right', 'occurs', 'every', 'good', 'checked', 'calories', 'greater', 'turn', 'higher', 'reflexes', 'regular', 'affect', 'lon g', 'tunnel', 'decreases', 'results', 'levothyroxine', 'may', 'need', 'pregnant', 'confused', 'infant', 'usually', 'missing', 'slu ggish', 'hoarse', 'doctor', 'vary', 'absorption', 'babies', 'replacing', 'temperature', 'lower', 'symptoms', 'dosage', 'diagno sed', 'also', 'heart', 'life', 'cold', 'born', 'losing']

IBD (Bowel): ['ibd', 'area', 'commonly', 'disease', 'small', 'part', 'intestine', 'large', 'autoimmune', 'crohn', 'chronic', 'occu rs', 'g
       rs', 'gastrointestinal', 'ileum', 'affect', 'bowel', 'inflammatory', 'tract', 'meet', 'names']
Incontinence: ['pressure', 'strong', 'urine', 'leakage', 'complete', 'malfunction', 'abdomen', 'enough', 'range', 'like', 'treatme nt', 'recognize', 'muscles', 'anyone', 'changes', 'specific', 'loss', 'cases', 'result', 'occasional', 'urethra', 'names', 'urinat ion', 'weak', 'mixed', 'certain', 'strength', 'sneezing', 'pelvic', 'help', 'occur', 'support', 'retraining', 'contains', 'urinar y', 'weakened', 'common', 'prevent', 'muscle', 'components', 'reduced', 'activities', 'instant', 'laughing', 'flow', 'passage', 'm ain', 'medication', 'bladder', 'coughing', 'stress', 'exercise', 'involuntary', 'types', 'able', 'women', 'surgery', 'urethral', 'three', 'occurs', 'urge', 'contraction', 'although', 'may', 'need', 'behavioral', 'increased', 'identified', 'training', 'actuall y', 'elderly', 'age', 'control', 'hold', 'incontinence', 'include', 'urinate', 'cause', 'sudden', 'inability', 'floor', 'storage', 'involves', 'sphincter', 'followed', 'time', 'problem']
          'involves', 'sphincter', 'followed', 'time', 'problem']
Insomnia: ['dyssomnia', 'sleeplessness', 'difficulty', 'insomnia', 'wakefulness', 'inability', 'sleep', 'abnormal', 'sleeping', 'n
          ames'l
        Menopause: ['eggs', 'menstrual', 'flashes', 'pounding', 'estrogen', 'ovaries', 'function', 'menopausal', 'normal', 'women', 'thoug ht', 'including', 'urinary', 'stop', 'go', 'hormone', 'less', 'insomnia', 'menopause', 'woman', 'relating', 'periods', 'responsible', 'mood', 'making', 'changes', 'climacteric', 'transition', 'hot', 'sexual', 'racing', 'natural', 'progesterone', 'life', 'hear
        t', 'change', 'disorders', 'produce', 'names']
Migraine: ['repeatedly', 'artery', 'basilar', 'get', 'migraine', 'begins', 'occur', 'however', 'nausea', 'sensitivity', 'called',
'migraines', 'actual', 'vomiting', 'light', 'warning', 'headaches', 'type', 'symptoms', 'people', 'aura', 'different', 'hemiplegi
    'migraines', 'actual', 'vomiting', 'light', 'warning', 'headaches', 'type', 'symptoms', 'people', 'aura', 'different', 'hemiplegic', 'time', 'headache', 'complicated', 'names']
Osteoarthritis: ['pressure', 'hypertrophic', 'depending', 'swollen', 'mostly', 'aspiration', 'surface', 'history', 'rubbery', 'cortisone', 'whether', 'ankles', 'becomes', 'spine', 'firm', 'chi', 'inside', 'activity', 'inserts', 'groin', 'increase', 'graduall y', 'oa', 'knees', 'image', 'injections', 'gentle', 'cold', 'braces', 'range', 'limited', 'members', 'scraping', 'replacement', 'b ony', 'treatment', 'early', 'shock', 'muscles', 'markers', 'acts', 'breakdown', 'supplied', 'changes', 'increases', 'therapy', 'in flammatory', 'splints', 'consulted', 'people', 'loss', 'sound', 'exercises', 'come', 'swelling', 'feet', 'names', 'moving', 'patie nts', 'weak', 'many', 'certain', 'physical', 'osteoarthritis', 'joints', 'improve', 'noticed', 'chip', 'injuries', 'commonly', 'he lp', 'gliding', 'occur', 'program', 'align', 'thing', 'relieve', 'causes', 'grating', 'first', 'build', 'lubricating', 'onto', 'be aring', 'without', 'treated', 'processes', 'osteoarthrosis', 'buttock', 'thigh', 'growth', 'several', 'rheumatoid', 'common', 'dj d', 'blood', 'fingers', 'medications', 'painful', 'swimming', 'inactivity', 'family', 'based', 'big', 'includes', 'swell', 'capabi lity', 'obesity', 'better', 'perform', 'flow', 'look', 'stiffness', 'resolve', 'contribute', 'crystals', 'provides', 'sensation', 'differ', 'area', 'mri', 'exercise', 'time', 'red', 'differentiate', 'placed', 'oxygen', 'growths', 'duloxetine', 'become', 'degen erative', 'lifestyle', 'movement', 'clicking', 'condition', 'suitable', 'causing', 'hips', 'gonarthrosis', 'surgery', 'enrolled',
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'pain', 'considered', 'last', 'occurs', 'severely', 'cracking', 'extended', 'although', 'physician', 'felt', 'risk', 'osteotomy', 'float', 'deterioration', 'arthritis', 'due', 'cartilage', 'may', 'provide', 'bones', 'within', 'bends', 'bits', 'usually', 'directly', 'joint', 'age', 'hip', 'toe', 'include', 'radiate', 'disease', 'tai', 'base', 'sacroiliac', 'friction', 'acetaminophen', 'sp urs', 'helps', 'motion', 'hand', 'evidence', 'starting', 'minutes', 'ray', 'cause', 'families', '30', 'ask', 'entire', 'weight', 'topical', 'cushion', 'end', 'hours', 'covers', 'morning', 'x', 'rather', 'towards', 'tests', 'examination', 'orthotics', 'smooth', 'around', 'day', 'particularly', 'absorbing', 'knee', 'doctor', 'capsaicin', 'vary', 'suddenly', 'tender', 'throughout', 'heat', 'orthotic', 'material', 'lower', 'symptoms', 'diagnosed', 'damages', 'affected', 'bone', 'also', 'tend', 'shoe', 'devices', 'hands', 'nsaids', 'tends']
Osteoporosis: ['density', 'thinning', 'osteoporosis', 'loss', 'hone', 'tissue', 'time', 'names']
                                      Osteoporosis: ['density', 'thinning', 'osteoporosis', 'loss', 'bone', 'tissue', 'time', 'names']
Pain: ['actual', 'potential', 'damage', 'described', 'terms', 'sensory', 'tissue', 'experience', 'pain', 'unpleasant', 'associate
                                       d', 'emotional'l
                                       Pneumonia: ['acquired', 'lungs', 'fungal', 'community', 'pneumonia', 'viral', 'caused', 'bacterial', 'infection', 'inflammation',
                                         'bronchopneumonia', 'names']
                                     Psoriasis: ['inverse', 'characterized', 'used', 'treat', 'scales', 'include', 'erythrodermic', 'inflammation', 'plantar', 'silver y', 'guttate', 'frequent', 'psoriasis', 'itching', 'dry', 'common', 'thick', 'medications', 'methotrexate', 'skin', 'irritation',
                                    y', 'guttate', 'frequent', 'psoriasis', 'itching', 'dry', 'common', 'thick', 'medications', 'methotrexate', 'skin', 'irritation', 'redness', 'humira', 'palmo', 'episodes', 'swelling', 'names']
Rheumatoid Arthritis: ['feel', 'develop', 'system', 'depending', 'swollen', 'exam', 'warmth', 'destruction', 'history', 'well', 'c omplete', 'ankles', 'term', 'firm', 'however', 'body', 'inside', 'example', 'gradually', 'knees', 'see', 'appetite', 'autoimmune', 'sure', 'wrists', 'immune', 'treatment', 'early', 'trauma', 'run', 'infection', 'therapy', 'rapidly', 'lack', 'inflammatory', 'hom e', 'people', 'loss', 'weeks', 'controlled', 'exercises', 'swelling', 'feet', 'names', 'patients', 'research', 'certain', 'physica l', 'strength', 'joints', 'suggests', 'caused', 'osteoarthritis', 'reactive', 'make', 'occur', 'affects', 'thing', 'test', 'cause s', 'first', 'persist', 'treated', 'ra', 'several', 'throbbing', 'dry', 'rheumatoid', 'hormones', 'poor', 'fingers', 'blood', 'med ications', 'swellings', 'nodules', 'inactivity', 'difficult', 'skin', 'checking', 'family', 'tissue', 'antibodies', 'aching', 'exp erience', 'suggestive', 'making', 'parts', 'proven', 'eyes', 'look', 'stiffness', 'typically', 'main', 'factors', 'worse', 'mri', 'energy', 'delay', 'c', 'time', 'small', 'possibly', 'touch', 'lifelong', 'means', 'kick', 'attack', 'become', 'still', 'movemen t', 'others', 'factor', 'women', 'condition', 'called', 'surgery', 'pain', 'considered', 'smoking', 'equally', 'periods', 'protei n', 'fevers', 'reflexes', 'affect', 'long', 'risk', 'hot', 'crc', 'process', 'arthritis', 'lung', 'may', 'described', 'identifie d', 'requires', 'usually', 'rays', 'joint', 'organs', 'tissues', 'include', 'disease', 'conducted', 'hand', 'evidence', 'injury', 'minutes', 'sides', 'targeted', 'families', '30', 'weight', 'check', 'toes', 'morning', 'x', 'tests', 'wear', 'problems', 'aggress ive', 'education', 'around', 'none', 'doctor', 'unlike', 'tender', 'redness', 'men', 'sweating', 'symptoms', 'triggers', 'diagnose d', 'affected', 'health', '
                                      d', 'affected', 'health', 'bone', 'also', 'heart', 'likely', 'experts', 'tends']
Schizophrenia: ['emotional', 'normally', 'situations', 'disease', 'serious', 'unreal', 'disorder', 'residual', 'disorganized', 'te
ll', 'logically', 'paranoid', 'social', 'normal', 'others', 'person', 'difference', 'catatonic', 'difficult', 'real', 'experience
                                       s', 'makes', 'think', 'responses', 'brain', 'undifferentiated', 'behave', 'schizophrenia', 'names']
Seizures: ['group', 'moments', 'violent', 'convulsions', 'names', 'sudden', 'uncontrollable', 'brief', 'complex', 'absence', 'cont act', 'daydreaming', 'subtle', 'muscles', 'contraction', 'seizure', 'convulsion', 'seizures', 'loss', 'fits', 'also', 'appears',
                                         'partial', 'consisting']
                                      Stroke: ['ischemic', 'cerebrovascular', 'damage', 'seconds', 'permanent', 'get', 'vessel', 'oxygen', 'cva', 'cannot', 'supplies', 'accident', 'causing', 'blocked', 'cells', 'stroke', 'blood', 'longer', 'occurs', 'die', 'brain', 'stopped', 'flow', 'clot', 'name
                                    Swine Flu: ['virus', 'influenza', 'coughing', 'nose', 'swine', 'caused', 'normally', 'get', 'seasonal', 'include', 'disease', 'h1n 1', 'human', 'spread', 'causes', 'happen', 'fever', 'infections', 'runny', 'appetite', 'respiratory', 'lethargy', 'vomit ing', 'similar', 'outbreaks', 'throat', 'regularly', 'regular', 'sore', 'pigs', 'lack', 'type', 'symptoms', 'diarrhea', 'people', 'flu', 'reported', 'novel', 'also', 'contagious', 'names']
UTI: ['depending', 'multiply', 'ureters', 'urine', 'douches', 'girls', 'kidneys', 'contraceptives', 'hospitalization', 'medical', 'whether', 'previously', 'term', 'dysuria', 'soon', 'body', 'associated', 'much', 'urethritis', 'shorter', 'nausea', 'increase', 'vesicoureteral', 'sex', 'five', 'male', 'couple', 'easily', 'pubic', 'feminine', 'trimethoprim', 'removes', 'chronic', 'followin g', 'kidney', 'frequently', 'foul', 'vomiting', 'preventing', 'vaginal', 'treatment', 'concluded', 'sign', 'intravenous', 'boys', 'irritation', 'infection', 'exercising', 'toilet', 'front', 'increases', 'severe', 'clavulanate', 'comes', 'people', 'staphylococc us', '2013', 'urethra', 'names', 'children', 'coli', 'certain', 'caused', 'diaphragms', 'pelvic', 'pneumoniae', 'ages', 'little', 'one', 'causes', 'pregnancy', 'fever', 'part', 'oral', 'bacteria', 'without', 'widespread', 'moderate', 'amoxicillin', 'treated', 'controversy', 'hygiene', 'restrictive', 'itching', 'effective', 'urinary', 'common', 'reenters', 'simple', 'acute', '2', 'avoidin g', 'swimming', 'similar', 'wiping', 'back', 'experience', 'includes', 'burning', 'cranberry', 'chills', 'urinating', 'type', 'sex ual', 'prevention', 'stones', 'escherichia', 'days', 'presence', 'change', 'complicated', 'resolve', 'smelling', 'bladder', 'trave
                                       s'1
                                     g', 'swimming', 'similar', 'wiping', 'back', 'experience', 'includes', 'burning', 'cranberry', 'chills', 'urinating', 'type', 'sex ual', 'prevention', 'stones', 'escherichia', 'days', 'presence', 'change', 'complicated', 'resolve', 'smelling', 'bladder', 'trave l', 'avoid', 'damage', 'factors', 'vagina', 'differ', 'feeling', 'area', 'worse', 'start', 'synthetic', 'red', 'infected', 'requir e', 'eg', 'studies', 'staying', 'addition', 'reasonably', 'pink', 'spermicides', 'infections', 'fully', 'movement', 'allows', 'wom en', 'adults', 'cloudy', 'thought', 'called', 'clothing', 'pain', 'considered', '24', 'antibiotics', 'less', 'emptying', 'cathete r', 'female', 'wearing', 'higher', 'lessened', 'scented', 'bacterial', 'utis', 'holding', 'risk', 'pee', 'review', 'may', 'need', 'near', 'products', 'usually', 'sprays', 'using', '8', 'unsweetened', 'uti', 'older', 'include', 'males', 'enter', 'bleeding', 'ur inate', 'reflux', 'intercourse', 'possible', 'arises', 'end', 'go', 'affecting', 'saprophyticus', 'hydrated', 'potassium', 'week', 'cystitis', 'klebsiella', 'ureter', 'connects', 'likelihood', 'untreated', 'tube', 'bowel', 'lower', 'symptoms', 'tract', 'threate ning', 'also', 'bone', 'tinged', 'wipe', 'life', 'three', 'born', 'young', 'juice']
Weight Loss: ['patients', 'diet', 'obese', 'half', 'm2', '29', 'morbid', 'kg', 'body', 'individual', 'bmi', 'pounds', '9', '100', '30', 'women', 'index', 'see', 'weight', 'population', 'maximum', 'adult', 'defined', 'considered', 'height', 'overweight', 'u', 'calories', 'obesity', 'loss', 'desirable', 'mass', 'also', 'different', '25', '20']
In [169... import pandas as pd
                                             import re
                                              # Tokenization function
                                             def process(text series):
                                                              text =
                                                                                                     ".join(text series.dropna().astype(str)).lower()
                                                              tokens = re.findall(r'\b\w+\b', text)
                                                              return tokens
                                             # Group the DataFrame by medical condition
                                             grouped = df.groupby("medical condition")
                                             # Process side_effects for each group
                                             side_effects = [process(group) for _, group in grouped["side_effects"]]
                                             # Create a list of medical conditions
                                             medical_conditions_list = list(grouped.groups.keys())
                                             # Create a dictionary mapping condition -> tokenized side effects
                                             side_effects_dict = dict(zip(medical_conditions_list, side_effects))
                                             # Sample data access
                                             sample = 0
```

condition = df['medical\_condition'][sample]

```
# Display results
print("SAMPLE TOKENIZED DATA\n")
print(f"Drug_name: {df['drug_name'][sample]}")
print(f"Medical Condition: {condition}")
print(f"Side Effects: {side_effects_dict.get(condition)}")
```

Drug name: doxycycline Medical Condition: Acne

Medical Condition: Acne
Side Effects: ['hives', 'difficult', 'breathing', 'swelling', 'in', 'your', 'face', 'or', 'throat', 'or', 'a', 'severe', 'skin',
'reaction', 'fever', 'sore', 'throat', 'burning', 'in', 'your', 'eyes', 'skin', 'pain', 'red', 'or', 'purple', 'skin', 'rash', 'th
at', 'spreads', 'and', 'causes', 'blistering', 'and', 'peeling', 'seek', 'medical', 'treatment', 'if', 'you', 'have', 'a', 'seriou
s', 'drug', 'reaction', 'that', 'can', 'affect', 'many', 'parts', 'of', 'your', 'body', 'symptoms', 'may', 'include', 'skin', 'ras
h', 'fever', 'swollen', 'glands', 'flu', 'like', 'symptoms', 'muscle', 'aches', 'severe', 'weakness', 'unusual', 'bruising', 'or',
'yellowing', 'of', 'your', 'skin', 'or', 'eyes', 'this', 'reaction', 'may', 'occur', 'several', 'weeks', 'after', 'you', 'began',
'using', 'doxycycline', 'doxycycline', 'may', 'cause', 'serious', 'side', 'effects', 'call', 'your', 'doctor', 'at', 'once', 'if',
'you', 'have', 'severe', 'stomach', 'pain', 'diarrhea', 'that', 'is', 'watery', 'or', 'bloody', 'throat', 'irritation', 'trouble',
'swallowing', 'chest', 'pain', 'irregular', 'heart', 'rhythm', 'feeling', 'short', 'of', 'breath', 'little', 'or', 'no', 'urinatio
n', 'low', 'white', 'blood', 'cell', 'counts', 'fever', 'chills', 'swollen', 'glands', 'body', 'aches', 'weakness', 'pale', 'ski
n', 'easy', 'bruising', 'or', 'bleeding', 'severe', 'headaches', 'ringing', 'in', 'your', 'ears', 'dizziness', 'nausea', 'vision',
'yroblems', 'pain', 'behind', 'your', 'eyes', 'loss', 'of', 'appetite', 'upper', 'stomach', 'pain', 'that', 'may', 'spread', 'to',
'your', 'back', 'tiredness', 'nausea', 'or', 'vomiting', 'fast', 'heart', 'rate', 'dark', 'urine', 'jaundice', 'yellowing', 'of',
'the', 'skin', 'or', 'eyes', 'common', 'side', 'effects', 'of', 'doxycycline', 'may', 'include', 'nausea', 'and', 'vomiting', 'ups
et', 'stomach', 'loss', 'of', 'myce', 'a', 'heartheats', 'loss', 'off', 'doxycycline', 'may', 'include', 'headed', 'feeling', 'like', 'you', 'might',
'pass', 'out', 'little', 'or', 'no', 'urinat sed, third, or, urnation, confusion, vomiting, muste, pain, sturred, speech, severe, weakness, numbres s, 'loss', 'of', 'coordination', 'feeling', 'unsteady', 'common', 'spironolactone', 'side', 'effects', 'may', 'include', 'breas t', 'swelling', 'or', 'tenderness', 'skin', 'rash', 'fever', 'swollen', 'glands', 'flu', 'like', 'symptoms', 'muscle', 'aches', 's evere', 'weakness', 'unusual', 'bruising', 'or', 'yellowing', 'of', 'your', 'skin', 'or', 'eyes', 'this', 'may', 'be', 'more', 'li kely', 'with', 'long', 'term', 'use', 'of', 'minocycline', 'and', 'the', 'reaction', 'may', 'occur', 'several', 'weeks', 'after', 'you', 'began', 'using', 'this', 'medicine', 'call', 'your', 'doctor', 'at', 'once', 'if', 'you', 'have', 'little', 'or', 'no', 'u r. 'sucling', 'or', trendermess', wiskin', 'mash', freen', swollen', glands, 'flu', 'lise', 'supprise', 'muscle, 'nerhes', 'severe', 'weakess', 'unusual', 'purising', 'this, 'yellouding, 'or', 'yellouding, 'or', 'the', 'purising', 'this, 'may, 'be more', 'li kely', 'hatth', 'long', 'the', 'miss', 'well', 're', 'well', 'well', 'sel', 'lise', 'well', 'well',

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hinking', 'or', 'memory', 'weakness', 'feeling', 'unsteady', 'or', 'low', 'blood', 'cell', 'counts', 'fever', 'chills', 'mouth', 'sores', 'skin', 'sores', 'easy', 'bruising', 'unusual', 'bleeding', 'pale', 'skin', 'cold', 'hands', 'and', 'feet', 'feeling', 'l ight', 'headed', 'or', 'short', 'of', 'breath', 'common', 'bactrim', 'side', 'effects', 'may', 'include', 'nausea', 'vomiting', 'l oss', 'of', 'appetite', 'or', 'skin', 'rash', 'hives', 'difficult', 'breathing', 'swelling', 'of', 'your', 'face', 'lips', 'tongu e', 'or', 'throat', 'stop', 'using', 'retin', 'a', 'and', 'call', 'your', 'doctor', 'at', 'once', 'if', 'you', 'have', 'severe', 'burning', 'stinging', 'or', 'irritation', 'of', 'treated', 'skin', 'severe', 'redness', 'swelling', 'olistering', 'peeling', 'or', 'crusting', 'your', 'skin', 'may', 'be', 'more', 'sensitive', 'to', 'wather', 'extremes', 'such', 'as', 'cold', 'and', 'win d', 'while', 'using', 'this', 'medicine', 'common', 'retin', 'a', 'side', 'effects', 'may', 'include', 'mild', 'warmth', 'or', 'st inging', 'where', 'the', 'medicine', 'vas', 'applied', 'or', 'changes', 'in', 'color', 'of', 'treated', 'skin', 'hives', 'difficul t', 'breathing', 'swelling', 'off, 'your', 'face', 'lips', 'tongue', 'or', 'throat', 'azone, 'may', 'cause', 'methemoglobinemi a', 'met', 'heem', 'oh', 'glo', 'bin', 'ee', 'mee', 'a', 'a', 'serious', 'condition', 'in', 'which', 'the', 'amount', 'of', 'oxyge n', 'in', 'your', 'blood', 'stream', 'becomes', 'dangerously', 'low', 'stop', 'using', 'this', 'medicine', 'and', 'call', 'your', 'doctor', 'at', 'once', 'if', 'your', 'lips', 'fingernails', 'or', 'the', 'inside', 'of', 'your', 'mouth', 'call', 'your', 'doctor', 'at', 'once', 'if', 'your', 'have', 'severe', 'skin', 'reation', 'fever', 'sore', 'throat', 'swelling', 'in', 'your', 'back', 'nausea', 'and', 'vomiting', 'fast', 'heart', 'rate', 'or', 'yellowed', 'skin', 'reation', 'fever', 'sore', 'throat', 'swelling', 'in', 'your', 'back', 'pain', 'pale', 'or', 'yellowed', 'skin', 'rane', 'boly, 'sain', 'oily', 'skin'
open pestly case, case, a class of the services of the service
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aling, 'mon', 'read, 'estin', 'read, 'freen', 'collis', 'tagy, 'tachet', 'file, 'questart', 'pain', 'rea', 'yellawad', 'estin', 'rea'

gy, 'bouling, 'an', 'taccolong, 'an', 'lage,' 'Sir', 'an', 'now,' 'Intercise, 'comman, 'terrogation', 'ant,' 'cor', 'rea', 'yellawad', 'sir', 'yellawad', 'sir', 'yellawad', 'sir', 'yellawad', 'sir', 'yellawad', 'rea', 'sir', 'yellawad', 'rea', 'sir', 'yellawad', 'rea', 'yellawad', 'yellawad
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'stopped', 'sometimes', 'loss', 'of', 'eyesight', 'may', 'happen', 'and', 'may', 'not', 'go', 'away', 'even', 'after', 'acticlat e', 'doxycycline', 'tablets', 'and', 'capsules', 'is', 'stopped', 'call', 'your', 'doctor', 'right', 'away', 'if', 'you', 'have', 'a', 'headache', 'or', 'eyesight', 'problems', 'like', 'blurred', 'eyesight', 'seeing', 'double', 'or', 'loss', 'of', 'eyesight', 'acticlate', 'side', 'effects', 'benzoyl', 'peroxide', 'can', 'cause', 'a', 'rare', 'but', 'serious', 'allergic', 'reaction', 'o r', 'severe', 'skin', 'irritation', 'these', 'reactions', 'may', 'occur', 'just', 'a', 'few', 'minutes', 'after', 'you', 'apply', 'the', 'medicine', 'or', 'within', 'a', 'day', 'or', 'longer', 'afterward', 'stop', 'using', 'benzoyl', 'peroxide', 'and', 'clinda mycin', 'topical', 'and', 'get', 'emergency', 'medical', 'help', 'if', 'you', 'have', 'signs', 'of', 'an', 'allergic', 'reaction', 'hives', 'itching', 'difficult', 'breathing', 'feeling', 'light', 'headed', 'swelling', 'of', 'your', 'face', 'lips', 'tongue', 'o r', 'throat', 'this', 'medicine', 'may', 'cause', 'serious', 'side', 'effects', 'stop', 'using', 'this', 'medicine', 'and', 'cal
r, severe, skin, irritation, 'these', 'reactions', 'may, 'occur, 'just, 'a', 'few', minutes', 'affere', 'you', 'arterward, 'stop, 'using', 'benozyl', 'peroxide, 'and, 'clinda mycin', 'topical', 'and, 'set', 'emergency', 'medical', 'help', 'if', 'you', 'have', 'signs', 'or', 'and, 'allengic', 'reaction', 'history', 'topical', 'may', 'cause', 'set', 'sign', 'or', 'bis', 'may', 'reaction', 'history', 'may', 'cause', 'set', 'sign', 'bis', 'or', 'bis', 'may', 'reaction', 'history', 'reaction', 'history', 'reaction', 'may', 'reaction', 'may', 'reaction', 'sign', 'si
     y', 'may', 'need', 'medical', 'attention', 'check', 'with', 'your', 'doctor', 'immediately', 'if', 'any', 'of', 'the', 'followin g', 'side', 'effects', 'occur', 'incidence', 'not', 'known', 'blistering', 'peeling', 'or', loosening', 'of', 'the', 'skin', 'blo ating', 'chills', 'clay', 'colored', 'stools', 'constipation', 'cough', 'dark', 'urine', 'decreased', 'appetite', 'diarrhea', 'dia rrhea', 'watery', 'and', 'severe', 'which', 'may', 'also', 'be', 'bloody', 'difficulty', 'with', 'swallowing', 'dizziness', 'fas t', 'heartbeat', 'feeling', 'of', 'discomfort', 'fever', 'headache', 'hives', 'inching', 'puffiness', 'or', 'swelling', 'of', 'the', 'goint', 'or', 'tongue', 'hives', 'or', 'welts', 'itching', 'or', 'rash', 'in creased', 'thirst', 'indigestion', 'inflammation', 'of', 'the', 'joints', 'joint', 'or', 'muscle', 'pain', 'large', 'hive', 'like', 'swelling', 'on', 'the', 'face', 'hands', 'legs', 'feet', 'or', 'sex', 'organs', 'los s', 'of', 'appetite', 'nausea', 'numbness', 'or', 'tingling', 'of', 'the', 'face', 'hands', 'or', 'feet', 'pain', 'in', 'the', 'st omach', 'side', 'or', 'abdomen', 'possibly', 'radiating', 'to', 'the', 'face', 'hands', 'or', 'feet', 'pain', 'in', 'the', 'st omach', 'side', 'or', 'abdomen', 'possibly', 'radiating', 'to', 'the', 'back', 'red', 'skin', 'lesions', 'often', 'with', 'a', 'pu puple', 'center', 'redness', 'an', 'store', 'throat', 'sores', 'un', 'sore', 'throat', 'sores', 'un', 'sore', 'throat', 'sores', 'un', 'sore', 'throat', 'sores', 'un', 'the', 'redecrises', 'swelling', 'of', 'the', 'feet', 'or', 'lower', 'legs', 'swollen', 'painful', 'or', 'tender', 'lymph', 'glands', 'in', 'the', 'redec', 'am', 'nor', 'tender', 'lymph', 'glands', 'in', 'the', 'redec', 'am', 'nor', 'teatment', 'as', 'your', 'health', 'care', 'professional', 'may', 'go', 'wash', 'sore', 'un', 'sore', 'side', 'effects', 'may', 'go', 'away', 'during', 'treatment', 'as', 'your', 'bady', 'adist', 'to', 'the', 'madicine', 'also', 'your', 'health', 'care, 'professional', 'may', 'go', 'abe', 'during', 'treatm
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e', 'stomach', 'pain', 'severe', 'sunburn', 'tooth', 'discoloration', 'unusual', 'bleeding', 'or', 'bruising', 'vomiting', 'bloo d', 'other', 'side', 'effects', 'not', 'listed', 'may', 'also', 'occur', 'in', 'some', 'patients', 'if', 'you', 'notice', 'any', 'other', 'effects', 'check', 'with', 'your', 'healthcare', 'professional', 'call', 'your', 'doctor', 'for', 'medical', 'advice', 'about', 'side', 'effects', 'you', 'may', 'report', 'side', 'effects', 'to', 'the', 'fda', 'at', 'l', '800', 'fda', '1088', 'monod ox', 'side', 'effects', 'warning', 'caution', 'even', 'though', 'it', 'may', 'be', 'rare', 'some', 'people', 'may', 'have', 'ver y', 'bad', 'and', 'sometimes', 'deadly', 'side', 'effects', 'when', 'taking', 'a', 'drug', 'tell', 'your', 'doctor', 'or', 'get', 'medical', 'help', 'right', 'away', 'if', 'you', 'have', 'any', 'of', 'the', 'following', 'signs', 'or', 'symptoms', 'that', 'ma y', 'be', 'related', 'to', 'a', 'very', 'bad', 'side', 'effect', 'signs', 'of', 'an', 'allergic', 'reaction', 'like', 'rash', 'hiv es', 'itching', 'red', 'swollen', 'blistered', 'or', 'peeling', 'skin', 'with', 'or', 'without', 'fever', 'wheezing', 'tightness', 'in', 'the', 'chest', 'or', 'throat', 'trouble', 'breathing', 'swallowing', 'or', 'talking', 'unusual', 'hoarseness', 'or', 'swell ing', 'of', 'the', 'mouth', 'face', 'lips', 'tongue', 'or', 'throach', 'signs', 'of', 'liver', 'problems', 'like', 'dark', 'urine', 'feeling', 'tired', 'not', 'hungry', 'upset', 'stomach', 'or', 'stomach', 'pain', 'light', 'colored', 'stools', 'throwing', 'up', 'or', 'yellow', 'skin', 'or', 'eyes', 'signs', 'of', 'a', 'pancreas', 'problem', 'pancreatitis', 'like', 'very', 'bad', 'stomach', 'or', 'tery', 'bad', 'back', 'pain', 'or', 'resure', 'or', 'throwing', 'up', 'chest', 'pain', 'or', 'yersure', 'or', 'stomach', 'or', 'throwing', 'up', 'chest', 'pain', 'or', 'very', 'bad', 'stomach', 'or', 'change', 'in', 'how', 'much', 'urine', 'is', 'passed', 'fever', 'chills', 'or', 'sore', 'throat', 'any', 'unexplained', 'bruising', 'or', 'bleedin
or', yellow', skin, 'or', 'eyes', 'signs', 'of', 'a', 'pancreas', 'problem', 'pancreatitis', 'like', 'very', 'bad', 'bsk', pain', 'or', 'problem', 'pancreas', 'problem', 'pancreas', 'problem', 'pancreas', 'stomach', 'or', 'throat', 'distrabeat', 'not', 'able', 'to', 'pass', 'urine', 'or', 'change', 'in', 'skow, 'mwch', 'urine', 'is', 'passed', 'fever', 'chills', 'or', 'ore, 'throat', 'any', 'unexplained', 'bruising', 'or', 'bleeding', 'or', 'feeling', 'very', 'tired', 'or', 'weak', 'throat', 'iritation', 'trouble', 'swallowing', 'mwsle', 'or', 'joint', 'pain', 'fast', 'breathing', 'fluing', 'or', 'dischange', 'diarrhea', 'is', 'comom', 'with', 'antibiotics', 'rarely', 'a', 'severe', 'form', 'called', 'c', 'diff', 'associated', 'dad', 'may', 'happen', 'stomach', 'pain', 'cramps', 'or', 'very', 'lose', 'watev', 'or', 'bloody', 'stools', 'colitis', 'cdad', 'may', 'happen', 'stomach', 'pain', 'cramps', 'or', 'very', 'lose', 'watev', 'or', 'bloody', 'stools', 'che', 'time', 'thris, 'wall', 'go', 'bak', 'tc', 'n', 'mormal', 'after', 'targadox', 'doxycycline', 'tablets', 'and', 'capsules', 'most', 'of', 'the', 'time', 'thris, 'will', 'go', 'bak', 'tc', 'n', 'mormal', 'after', 'targadox', 'doxycycline', 'tablets', 'and', 'capsules', 'is', 'stopped', 'sometimes', 'lose', 'thris, 'will', 'go', 'bak', 'tc', 'n', 'mormal', 'after', 'targadox', 'doxycycline', 'tablets', 'and', 'capsules', 'is', 'stopped', 'sometimes', 'lose', 'thris, 'wall', 'go', 'wall', 'wall', 'go', 'wall', 'wall', 'go', 'wall', 'go', 'wall', 'go', 'wall', 'wall', 'go', 'wall', 'wall', 'go', 'wall', '
y, do, 'courn,' they,' may,' need,' medical,' attention,' check,' with', your,' dotorn,' immediately,' if,' hapy,' do', 'the', 'following', 'side', 'effects', 'occur', incidence', 'not', 'known', 'blistering', 'peeling', 'or', 'lossening', 'of', 'the', 'skin', 'bloating', 'chills', 'clay', 'colored', 'stools', 'constipation', 'condy', 'dark', 'unine', 'decreased', 'appetite', 'diarrhea', 'diarrhea', 'watery', 'and', 'severe', 'which', 'may,' also', 'be', 'bloody', 'difficulty', with', 'swallowing', 'dizziness', 'feeling', 'or', 'discomfort', feever', 'headache', 'hives', 'itning', 'puffiness', 'or', 'swelling', 'or', 'trash', 'increased', 'thirst', 'indigestion', 'inflammation', 'of', 'the', 'joints', 'joint', 'or', 'muscle', 'pain', 'l arge', 'hive', 'like', 'swelling', 'or', 'the', 'face', 'eyelids', 'lips', 'tongue', 'throat', 'hands', 'legs', 'feett', 'or', 'sbemen', 'possibly', 'radiating', 'to', 'the', 'face', 'hands', 'or', 'feet', 'pain', 'in', 'the', 'stomach', 'side', 'or', 'abdomen', 'possibly', 'radiating', 'to', 'the', 'back', 'red', 'skin', 'lesions', 'orten', 'with', 'spers', 'or', 'whith', 'spors', 'in', 'the', 'mouth', 'or', 'or', 'or', 'the', 'skin', 'sore', 'throat', 'sores', 'un', 'the', 'neck', 'ampit', 'or', 'groin', 'tiphness', 'in', 'the', 'neck', 'unisual', 'tiredness', 'or', 'whith', 'spers', 'unisual', 'weight', 'loss', 'vomiting', 'yellow', 'eyes', 'or', 'skin', 'some', 'side', 'effects', 'may', 'doring', 'treatmen', ', 'your', 'body', 'adjusts', 'to', 'the', 'medicine', 'also, 'your', 'health', 'care', 'professional', 'may', 'be', 'able', 'to', 'the', 'spor', 'stools', 'bleding', 'gun's, 'bloding', 'side', 'effects', 'continue', 'or', 'stomach', 'pains', 'bludging', 'soft', 'spor', 'stools', 'blededing', 'gun's, 'bloding', 'side', 'effects', 'continue', 'or', 'stools', 'bludging', 'soft', 'spor', 'iff, 'you', 'have', 'any, 'qun', 'heeling', 'may', 'holory', 'spor', 'stools', 'bludging', 'soft', 'spor', 'or', 'stools', 'bleeding', 'gun's, 'bloding', 'side', 'effects', 'con', 'stools'
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n', 'bloating', 'chills', 'clay', 'colored', 'stools', 'constipation', 'cough', 'dark', 'urine', 'decreased', 'appetite', 'diarrhe a', 'diarrhea', 'watery', 'and', 'severe', 'which', 'may', 'also', 'be', 'bloody', 'difficulty', 'with', 'swallowing', 'dizzines s', 'fast', 'heartbeat', 'feeling', 'of', 'discomfort', 'fever', 'headache', 'hives', 'ort, 'with', 'swallowing', 'dizzines s', 'fast', 'heartbeat', 'feeling', 'of', 'discomfort', 'fever', 'headache', 'hives', 'ort, 'welts', 'ort, 'swelling', 'or', 'rass h', 'increased', 'thirst', 'indigestion', 'inflammation', 'of', 'the', 'joints', 'joint', 'or', 'muscle', 'pain', 'large', 'hive', 'like', 'swelling', 'on', 'the', 'face', 'eyelids', 'lips', 'tongue', 'throat', 'hands', 'or', 'feet', 'or', 'sex', 'organs', 'l oss', 'of', 'appetite', 'nausea', 'numbness', 'or', 'thej', 'nada', 'or', 'teet', 'nain', 'in', 'the', 'stomach', 'side', 'or', 'abdomen', 'possibly', 'radiating', 'to', 'the', 'back', 'red', 'skin', 'lesions', 'often', 'with', 'a', 'purple', 'center', 'redness', 'and', 'soreness', 'of', 'the', 'eyes', 'redness', 'of', 'the', 'skin', 'sore', 'throat', 'sores', 'ulcers', 'or', 'with', 'syos', 'or', 'the', 'neck', 'swelling', 'of', 'the', 'feet', 'or', 'lower', 'legs', 'swollen', 'painful', 'or', 'tender', 'lymph', 'glands', 'i n', 'the', 'neck', 'armpit', 'or', 'groin', 'tightness', 'in', 'thest', 'unusual', 'tiredness', 'or', 'weakness', 'unusual', 'weight', 'loss', 'vomiting', 'yellow', 'eyes', 'or', 'skin', 'some', 'side', 'effects', 'may', 'occur', 'that', 'usually', 'do', 'not', 'need', 'medical', 'attention', 'these', 'side', 'effects', 'may', 'go', 'away', 'during', 'treatment', 'as', 'your', 'boddy', 'adjusts', 'to', 'the', 'medicine', 'also', 'your', 'health', 'care', 'professional', 'may', 'pe', 'able', 'to', 'tell', 'your', 'hoddy', 'aloust', 'ways', 'to', 'the', 'medicine', 'also', 'your', 'health', 'care', 'professional', 'if', 'any', 'of', 'the', 'following', 'side', 'effects', 'continue', 'or', 'stomach', 'pain', 'no', 'the', 'head', 'of
            'back', 'or', 'side', 'pain', 'nosebleeds', 'pain', 'or', 'burning', 'in', 'the', 'throat', 'pain', 'with', 'swallowing', 'painfu l', 'or', 'difficult', 'urination', 'pale', 'skin', 'pinpoint', 'red', 'spots', 'on', 'the', 'skin', 'rash', 'with', 'flat', 'lesi ons', 'or', 'small', 'raised', 'lesions', 'on', 'the', 'skin', 'redness', 'or', 'other', 'discoloration', 'of', 'the', 'skin', 'redness', 'swelling', 'or', 'soreness', 'of', 'the', 'tongue', 'scaly', 'skin', 'severe', 'nausea', 'severe', 'stomach', 'pain', 'severe', 'sunburn', 'tooth', 'discoloration', 'unusual', 'bleeding', 'or', 'bruising', 'vomiting', 'bloo d', 'other', 'side', 'effects', 'not', 'listed', 'may', 'also', 'occur', 'in', 'some', 'patients', 'if', 'you', 'notice', 'any', 'other', 'effects', 'check', 'with', 'your', 'healthcare', 'professional', 'call', 'your', 'doctor', 'for', 'medical', 'advice', 'about', 'side', 'effects', 'along', 'with', 'its', 'needed', 'effects', 'a', 'medicine', 'may', 'cause', 'some', 'unwanted', 'effects', 'although', 'not', 'all', 'of', 'these', 'side', 'effects', 'a', 'medicine', 'may', 'cause', 'some', 'unwanted', 'effects', 'although', 'not', 'all', 'of', 'these', 'side', 'effects', 'may', 'occur', 'if', 'they', 'do', 'occur', 'ifellowing', 'side', 'effects', 'occur', 'incidence', 'with', 'your', 'doctor', 'immediately', 'if', 'any', 'of', 'the', 'following', 'side', 'effects', 'occur', 'incidence', 'not', 'known', 'blistering', 'peeling', 'or', 'loosening', 'of', 'the', 'skin', 'bloating', 'chi lls', 'clay', 'colored', 'stools', 'constipation', 'cough', 'dark', 'urine', 'decreased', 'appetite', 'diarrhea', 'diarrhea', 'wat
need', 'medical', 'attention', 'check', 'with', 'your', 'doctor', 'immediately', 'if', 'any', 'of', 'the', 'fsllowing', 'side', 'effects', 'occur', 'incidence', 'not', 'known', 'blistering', 'peeling', 'or', 'loosening', 'of', 'the', 'skin', 'bloating', 'chils', 'cloy, 'colored', 'stools', 'constipation', 'cough', 'dark', 'urine', 'deressed', 'appetite', 'diarnhea', 'dat ery', 'and', 'severe', 'which', 'may', 'also', 'be', 'bloody', 'difficulty', 'with', 'swallowing', 'dizziness', 'fast', 'hearthea 't, 'feeling', 'of', 'discomfort', 'fever', 'headache', 'hives', 'itching', 'puffiness', 'or', 'swelling', 'of', 'the', 'eyedids', 'lips', 'or', 'tongue', 'hives', 'itching', 'puffiness', 'or', 'swelling', 'of', 'the', 'seca, 'lips', 'or', 'tongue', 'hives', 'itching', 'pain', 'large', 'hive', 'like', 'swelling', 'or', 'the', 'face', 'hands', 'or', 'wuscle', 'pain', 'large', 'hive', 'loss', 'of', 'appetite', 'nausea', 'numbness', 'or', 'ttingling', 'of', 'the', 'face', 'hands', 'or', 'feet', 'pain', 'in', 'the', 'stomach', 'side', 'or', 'sek', 'lorgans', 'loss', 'off', 'appetite', 'redness', 'and', 'soreness', 'of', 'the', 'face', 'hands', 'or', 'feet', 'pain', 'in', 'the', 'stomach', 'soreness', 'or', 'white', 'spots', 'in', 'the', 'mouth', 'or', 'on', 'the', 'face', 'hands', 'or', 'stomach', 'sores', 'ulcers', 'or', 'white', 'spots', 'in', 'the', 'mouth', 'or', 'on', 'the', 'face', 'or', 'sek', 'sore', 'throat', 'sores', 'ulcers', 'or', 'white', 'yor', 'yellow', 'eyes', 'or', 'on', 'the', 'face', 'or', 'swelling', 'or', 'the', 'feet, 'or', 'lower', 'logs', 'swollen', 'pain', 'or', 'swanch', 'pain', 'or', 'tendeness', 'swelling', 'or', 'skin', 'sore', 'skin', 'sore', 'sfeets', 'may', 'during', 'treatment', 'as', 'your', 'body', 'adjusts', 'to', 'the', 'medicine', 'also,', 'your', 'health', 'care', 'professional', 'may', 'be', 'alle', 'to', 'tell', 'you', 'about', 'ways', 'to', 'the', 'medicine', 'also,', 'note', 'fhee', 'skin', 'to', 'the', 'skin', 'to', 'the', 'skin', 'to', 'the', 'skin', 'to', 'the', 'skin', 'to',
      ain', 'sevene', 'sunburn', 'tooth', 'discoloration', 'unusual', 'bleeding', 'or', 'bruising', 'vomiting', 'blood', 'other', 'sid e', 'effects', 'not', 'listed', 'may', 'also', 'occur', 'in', 'some', 'patients', 'if', 'you', 'notice', 'any', 'other', 'effect s', 'check', 'with', 'your', 'healthcare', 'professional', 'call', 'your', 'doctor', 'for', 'medical', 'advice', 'about', 'side', 'effects', 'you', 'may', 'report', 'side', 'effects', 'to', 'the', 'fda', 'at', 'l', '800', 'fda', '1088', 'adoxa', 'tt', 'side', 'effects', 'warning', 'caution', 'even', 'though', 'it', 'may', 'be', 'rare', 'some', 'people', 'may', 'have', 'wery', 'bad', 'an d', 'sometimes', 'deadly', 'side', 'effects', 'when', 'taking', 'a', 'drug', 'tell', 'your', 'doctor', 'or', 'get', 'medical', 'he lp', 'right', 'away', 'if', 'you', 'have', 'any', 'of', 'the', 'following', 'signs', 'or', 'symptoms', 'that', 'may', 'be', 'relat', 'swollen', 'blistered', 'or', 'peeling', 'skin', 'with', 'or', 'without', 'fever', 'wheezing', 'tightness', 'in', 'the', 'c hest', 'or', 'throat', 'trouble', 'breathing', 'swallowing', 'or', 'talking', 'unusual', 'hoarseness', 'or', 'swelling', 'of', 'the', 'c hest', 'or', 'throat', 'trouble', 'breathing', 'signs', 'of', 'liver', 'problems', 'like', 'dark', 'urine', 'feeling', 'ti red', 'not', 'hungry', 'upset', 'stomach', 'ori, 'stomach', 'pain', 'light', 'colored', 'stools', 'throwing', 'up', 'or', 'yello w', 'skin', 'or', 'yese', 'signs', 'of', 'a', 'pancreas', 'problem', 'pancreatitis', 'like', 'very', 'bad', 'stomach', 'pain', 'or', 'pressure', 'or', 'a', 'fast', 'heartbeat', 'not', 'able', 'to', 'pass', 'urine', 'or', 'thnowing', 'up', 'chest', 'pain', 'or', 'pressure', 'or', 'a', 'fast', 'heartbeat', 'not', 'able', 'to', 'pass', 'urine', 'or', 'thnowing', 'up', 'tried', 'or', 'weak', 'throat', 'irritation', 'trouble', 'swallowing', 'muscle', 'or', 'joint', 'pain', 'fast', 'breathing', 'flushing', 'very', 'bad', 'dizriness', 'or', 'passing', 'out', 'change', 'in', 'skin', 'color', 'swellen', 'gland', 'vaginal',
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aded, lefforts, 'a', 'medicine, 'eay', 'cases', 'beasen', 'beasen'd, 'efforts, 'although, 'met', 'alth, 'om', 'those,' 'tibe, 'critect, 'may, 'access' 'access', 'acce
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ction', 'worsening', 'of', 'your', 'skin', 'condition', 'or', 'severe', 'stomach', 'pain', 'diarrhea', 'that', 'is', 'watery', 'or', 'bloody', 'even', 'if', 'it', 'occurs', 'months', 'after', 'your', 'last', 'dose', 'common', 'side', 'effects', 'of', 'erythro mycin', 'topical', 'may', 'include', 'skin', 'itching', 'redness', 'burning', 'or', 'peeling', 'or', 'dry', 'or', 'oily', 'skin', 'warning', 'caution', 'even', 'though', 'it', 'may', 'be', 'rare', 'some', 'people', 'may', 'have', 'very', 'bad', 'and', 'sometim es', 'deadly', 'side', 'effects', 'when', 'taking', 'a', 'drug', 'tell', 'your', 'doctor', 'or', 'get', 'medical', 'help', 'righ t', 'away', 'if', 'you', 'have', 'any', 'of', 'the', 'following', 'signs', 'or', 'symptoms', 'that', 'may', 'be', 'related', 'to', 'a', 'very', 'bad', 'side', 'effect', 'signs', 'of', 'an', 'allergic', 'reaction', 'like', 'rash', 'hives', 'titching', 'red', 'swo llen', 'blistered', 'or', 'peeling', 'skin', 'with', 'or', 'without', 'fever', 'wheezing', 'tightness', 'in', 'the', 'chest', 'or', 'throat', 'trouble', 'breathing', 'swallowing', 'or', 'talking', 'unusual', 'hoarseness', 'or', 'swelling', 'of', 'the', 'mout h', 'face', 'lips', 'tongue', 'or', 'tstomach', 'pain', 'light', 'colored', 'stools', 'throwing', 'up', 'or', 'yellow', 'skin', 'or', 'eyes', 'signs', 'of', 'a', 'pancreas', 'problem', 'pancreatitis', 'like', 'very', 'bad', 'stomach', 'pain', 'very', 'bad', 'back', 'pain', 'or', 'yes', 'bad', 'toy', 'pass', 'urine', 'or', 'thowing', 'up', 'chest', 'pain', 'or', 'pressure', 'or', 'a', 'fast', 'heartbeat', 'not', 'alle', 'toy', 'basc', 'throwing', 'up', 'chest', 'pain', 'or', 'pressure', 'or', 'weak', 'throat', 'ary', 'passing', 'ort', 'change', 'in', 'howi, 'much', 'urine', 'is', 'passed', 'fever', 'ch' ills', 'or', 'passing', 'out', 'change', 'in', 'skin', 'color', 'swellen', 'or', 'hapen', 'during', 'or', 'alsohathea', 'raised', 'pressure', 'form', 'labled', 'c', 'diff', 'associated', 'diarrhea', 'is', 'cadd', 'may', 'happen', 'during', 'or', 'aster', 'months',
octor, before', 'treating', 'diarnhea', 'naised', 'pressure', 'in', 'the', 'brain', 'has', 'happened', with', 'morgidox', 'doxy cycline', 'tablets', and', 'capsules', 'is', 'stopped', 'sometimes', 'loss', 'of', 'cyesight', 'may', 'happen', 'and', 'may', 'nor', 'go', 'away', 'even', 'after', 'morgidox', 'doxycycline', 'tablets', 'and', 'dospules', 'is', 'stopped', 'call', 'you', 'doctor', 'right', 'away', 'if', 'you', 'have', 'a', 'headache', 'or', 'eyesight', 'problems', 'like', 'blurned', 'eyesight', 'seeing', 'double', 'or', 'loss', 'or', 'eyesight', 'morgidox', 'side', 'effects', 'wanning', 'caution', 'even', 'though', 'it', 'may', 'be', 'rare', 'some', people', 'may', 'have', 'very', 'bad', 'and', 'sometimes', 'deadly', 'side', 'effects', 'when', 'taking', 'a', 'drug', 'tell', 'your', 'doctor', 'or', 'get', 'medical', 'help, 'right', 'away', 'if', 'you', 'have', 'any', 'of', 'the', 'following', 'signs', 'or', 'suthout', 'fever', 'wheecing', 'tithing', 'red', 'swollen', 'blistered', 'or', 'peeling', 'skin', 'with', 'or', 'without', 'fever', 'wheecing', 'tightness', 'in', 'the', 'chekt', 'or', 'throw', 'trouble', 'breathing', 'swallowing', 'or', 'talking', 'unusual', 'hoarseness', 'or', 'swelling', 'of', 'the', 'mouth', 'face', 'lips', 'tongue', 'or', 'throat', 'signs', 'of', 'liver', 'problem', 'pinchess', 'like', 'dork', 'urine', 'feeling', 'tired', 'nor', 'hungry', 'upset', 'stomach', 'or', 'stomach', 'or', 'stomach', 'or', 'throwing', 'up', 'or', 'yellow', 'skin', 'or', 'eyes', 'signs', 'of', 'a', 'pancreas', 'problem', 'pancreatitis', 'like', 'very', 'bad', 'stomach', 'or', 'very', 'bad', 'stomach', 'or', 'throat', 'or', 'stomach', 'or', 'they', 'bad', 'stomach', 'or', 'throat', 'or', 'stomach', 'or', 'they', 'bad', 'stomach', 'or', 'throat', 'or', 'stomach', 'or', 'they', 'bad', 'stomach', 'or', 'wery', 'bad', 'sto
'increased', pressure', 'inside', 'the', 'skull', 'severe', 'headaches', 'ringing', 'in', 'your', 'ears', 'dizziness', 'nausea', 'vision', problems', 'pain', 'behind', 'your', 'seye', 'common', 'side', 'effects', 'of', 'claravis', 'may', 'include', 'drynes s', 'of', 'your', 'skin', 'lips', 'eyes', 'or', 'nose', 'you', 'may', 'have', 'nosebleeds', 'vision', 'problems', 'beak', 'pain', 'joint', 'pain', 'muscle', 'problems', 'skin', 'reactions', 'or', 'cold', 'symptoms', 'such', 'as', 'stuffy', 'nose', 'sneezing', 'sore', 'throat', 'along', 'with', 'its', 'needed', 'effects', 'a', 'medicine', 'may', 'cause', 'some', 'unwanted', 'effects', 'although', 'not', 'all', 'of', 'these', 'side', 'effects', 'may', 'occur', 'if', 'they', 'do', 'occur', 'they', 'may', 'need', 'medical', 'attention', 'check', 'with', 'your', 'doctor', 'immediately', 'if', 'any', 'of', 'the', 'following', 'side', 'effects', 'may', 'ori, 'wakness', 'weight', 'loss', 'loss', 'camps', 'pain', 'and', 'blading', 'severe', 'diarnhea', 'watery', 'an d', 'severe', 'winhin', 'loss', 'loss', 'unusual', 'these', 'effects', 'may', 'also', 'occur', 'up', 'to', 'several', 'weeks', 'after', 'you', 'stop', 'using', 'this', 'medicine', 'check', 'with', 'your, 'doctor', 'as', 'soon', 'as', 'possible', 'if', 'any', 'of', 'the', 'following', 'side', 'effects', 'occur', 'less', 'common', 'skin', 'rash', 'itthing', 'redness', 'swelling', 'ort, 'other', 'sign', 'of', 'inritation', 'not', 'present', 'before', 'use', 'of', 'this', 'medicine', 'some', 'side', 'effects', 'may', 'occur', 'that', 'way', 'also', 'orten', 'siag', 'of', 'inritation', 'not', 'present', 'before', 'use', 'of', 'this', 'medicine', 'some', 'side', 'effects', 'may', 'of', 'this', 'medicine', 'also', 'orten', 'siag', 'effects', 'may', 'of', 'the', 'medicine', 'also', 'orten', 'siag', 'effects', 'may', 'of', 'the', 'medicine', 'also', 'orten', 'also', 'orten', 'also', 'orten', 'may', 'of', 'the', 'fallowing', 'side', 'effects', 'any', 'other', 'some', 'of', 'the', 'fallowing', 'side', 'effects', 'any
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"the", "Nothwaigh, "stor", "effects", "occom", "Incidence", "host, "tomon", "thank", "tomys, "coalst, "Distoring, "perling", "er 'sockoning," or, "tom', "to
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s', 'sceedod', 'effects', 'a', 'medicine', 'may', 'couse', 'some', 'mmounted', 'effects', 'although', 'nat', 'all', 'of', 'these', 'size', 'effects', 'or', 'imedicall', 'affects', 'or', 'the', 'fillowing', 'size', 'effects', 'court, 'nate', 'abdomination,' cheek', withh', 'you', 'doctor', 'imedicalle', 'affects', 'or', 'imedicalle', 'fere', 'some', 'imedicalle', 'fere', 'some', 'nate', 'sowe', 'may', 'sovere', 'diarchear', 'watery', 'and', 'severe', 'which', 'may', 'also', 'he', 'slowach', 'rate', 'slowach', 'rate', 'also', 'he', 'slowach', 'rate', 'also', 'nat', 'you', 'slowach', 'rate', 'may', 'or', 'water', 'massal', 'specificalle, 'cheek', 'whith, 'you', 'docton', 'slowach', 'slowship', 'slowach', 'slo
      'constant', 'movement', 'of', 'self', 'or', 'surroundings', 'feeling', 'sad', 'or', 'empty', 'increased', sensitivity', 'of', 'the', 'skin', 'to', 'sunlight', 'lack', 'of', 'feeling', 'or', 'emotion', 'loss', 'of', 'interest', 'or', 'pleasure', 'muscle', 'pai n', 'stiffness', 'cramps', 'or', 'spasss', 'nervousness', 'redness', 'or', 'other', 'sidocloration', 'of', 'the', 'skin', 'seein g', 'hearing', 'trouble', 'sleeping', 'uncaring', 'weight', 'loss', 'other', 'side', 'effects', 'not', 'listed', 'may', 'also', 'occur', 'in', 'some', 'patients', 'if', 'you', 'notice', 'any', 'other', 'effects', 'check', 'with', 'your', 'healthcare', 'professional', 'call', 'your', 'doctor', 'for', 'medical', 'advice', 'about', 'side', 'effects', 'hives', 'difficult', 'breathing', 'swelling', 'of', 'you', 'face', 'lips', 'tongue', 'or', 'troat', 'stop', 'using', 'yasmin', 'and', 'call', 'your', 'doctor', 'at', 'once', 'if', 'you', 'have', 'signs', 'of', 'a', 'stroke', 'sudden', 'numbness', 'or', 'weakness', 'especially', 'on', 'a', 'stroke', 'sudden', 'unumbness', 'or', 'weakness', 'especially', 'on', 'ore', 'signs', 'of', 'a', 'blood', 'clot', 'sudden', 'vision', 'loss', 'stabbing', 'chest', 'pain', 'feeling', 'short', 'of', 'bre ath', 'coughing', 'up', 'blood', 'plain', 'or', 'warmth', 'and', 'swelling', 'in', 'or', 'or', 'or', 'we', 'symptoms', 'chest', 'pain', 'or', 'pressure', 'pain', 'or', 'swe', 'increased', 'blood', 'pressure', 'sweather', 'lon', 'gre', 'marman', 'swelling', 'in', 'your', 'hand', 'arkle', 'or', 'feet', 'a', 'chang', 'lon', 'in', 'marman', 'arkle', 'or', 'marman', 'swelling', 'or', 'smptoms', 'of', 'depression', 'sleep', 'problems', 'washness', 'tred', 'or', 'feet', 'a', 'changes', 'common', 'yasmin', 'side', 'effects', 'may', 'include', 'nausea', 'or', 'dharman', 'swelling', 'of', 'marman', 'swelling', 'of', 'marman', 'swelling', 'of', 'marman', 'swel
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"Blanding, "Nimady, ton", 'tarry', 'stools', 'm', 'teromous', 'pressure', 'tinide', 'The, 'saall', 'soure', 'Madaries', 'rightser, 'pon, 'goes, 'stools', 'melle, 'melle, 'pon, 'goes, 'stools, 'goes, 'stools, 'pon, 'goes, 'stools, 'goes, 'stools, 'pon, 'goes, 'stools, 'goes, 'goes, 'stools, 'goes, 'stools, 'goes, 'goes, 'goes, 'goes, 'stools, 'goes, 'goes
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c', 12', Thaudion', Portial', Maleding', "On', Servering', Coppose', Toward', Side', Defect', Toff', Smillight, Mill', and Regockia, "May, Smille," And Servering the "College of the College of the Coll
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ed', 'skin', 'hives', 'difficult', 'breathing', 'swelling', 'of', 'your', 'face', 'lips', 'tongue', 'or', 'throat', 'avita', 'ma y', 'cause', 'serious', 'side', 'effects', 'call', 'your', 'doctor', 'at', 'once', 'if', 'you', 'have', 'severe', 'burning', 'stin ging', 'or', 'irritation', 'of', 'treated', 'skin', 'severe', 'skin', 'dryness', 'or', 'severe', 'redness', 'swelling', 'blisterin g', 'peeling', 'or', 'crusting', 'your', 'skin', 'may', 'be', 'more', 'sensitive', 'to', 'weather', 'extremes', 'such', 'as', 'col d', 'and', 'wind', 'while', 'using', 'avita', 'common', 'side', 'effects', 'of', 'avita', 'may', 'include', 'skin', 'pain', 'redne ss', 'burning', 'itching', 'or', 'irritation', 'sore', 'throat', 'mild', 'warmth', 'or', 'stinging', 'where', 'the', 'medicine', 'was', 'applied', 'or', 'changes', 'in', 'color', 'of', 'treated', 'skin', 'hives', 'difficult', 'breathing', 'swelling', 'of', 'your', 'face', 'lips', 'tongue', 'or', 'throat', 'this', 'medicine', 'may', 'cause', 'serious', 'side', 'effects', 'stop', 'using', 'this', 'medicine', 'and', 'call', 'your', 'doctor', 'at', 'once', 'if', 'you', 'have', 'severe', 'burning', 'stinging', 'or', 'wa rmth', 'severe', 'itching', 'or', 'tingling', 'severe', 'redness', 'dryness', 'peeling', 'or', 'other', 'irritation', 'changes', 'in', 'skin', 'color', 'or', 'tingling', 'severe', 'tingling', 'dry', 'or', 'scaly', 'skin', 'o', 'itching', 'or', 'other', 'irri
                    'in', 'skin', 'color', 'or', 'new', 'or', 'worsening', 'breathing', 'problems', 'common', 'side', 'effects', 'of', 'azelex', 'ma y', 'include', 'pain', 'burning', 'stinging', 'or', 'tingling', 'dry', 'or', 'scaly', 'skin', 'o', 'itching', 'or', 'other', 'irri tation', 'benzoyl', 'peroxide', 'can', 'cause', 'a', 'rare', 'but', 'serious', 'allergic', 'reaction', 'or', 'severe', 'skin', 'ir ritation', 'these', 'reactions', 'may', 'occur', 'just', 'a', 'few', 'minutes', 'after', 'you', 'apply', 'the', 'medicine', 'or', 'within', 'a', 'day', 'or', 'longer', 'afterward', 'stop', 'using', 'this', 'medicine', 'and', 'get', 'emergency', 'medical', 'help', 'if', 'you', 'have', 'any', 'of', 'these', 'signs', 'of', 'an', 'allergic', 'reaction', 'hives', 'itching', 'difficult', 'breathing', 'feeling', 'light', 'headed', 'swelling', 'of', 'your', 'face', 'lips', 'tongue', 'or', 'throat', 'this', 'medicine', 'ma y', 'cause', 'serious', 'side', 'effects', 'stop', 'using', 'this', 'medicine', 'and', 'call', 'your', 'doctor', 'at', 'once', 'if', 'you', 'have', 'severe', 'redness', 'burning', 'stinging', 'or', 'peeling', 'of', 'treated', 'skin', 'areas', 'or', 'diarrhe a', 'that', 'is', 'watery', 'or', 'bloody', 'common', 'side', 'effects', 'of', 'benzamycin', 'may', 'include', 'mild', 'burning', 'or', 'stinging', 'id', 'breated', 'skin', 'or', 'redness', 'or', 'nor', 'peeling', 'of', 'treated', 'skin', 'or', 'redness', 'or', 'nor', 'peeling', 'of', 'peeling', 'of', 'treated', 'skin', 'or', 'redness', 'or', 'nor', 'peeling', 'of', 'treated', 'skin', 'or', 'redness', 'or', 'nor', 'peeling', 'of', 'peeling', 'of', 'treated', 'skin', 'or', 'redness', 'or', 'nor', 'peeling', 'of', 'treated', 'skin', 'or', 'redness', 'or', 'nor', 'peeling', 'of', 'peeling', 'of', 'treated', 'skin', 'or', 'redness', 'or', 'nor', 'no
p. 15 'you', Nave', Nave', Nove', Cheek, Signe, Gri, 'Man', Sallergic', Teaction, Mires', Litching', difficult', bres by, 'cauce', 'contous', 'cisin', 'offects', strip, 'cising', 'man', 'mocition', 'man', 'cisin', 'mares', 'con', 'cising', 'man', 'mocition', 'man', 'cisin', 'mares', 'cisin', 'cisin'
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'of', 'appetite', 'upper', 'stomach', 'pain', 'tiredness', 'dark', 'urine', 'clay', 'colored', 'stools', 'jaundice', 'yellowing', 'of', 'the', 'skin', 'or', 'see', 'skin', 'or', 'steprine', 'skewerky', 'of', 'migraine', 'headaches', 'or', 'symptoms', 'of', 'deppression', 'sleep', 'problems', 'weakeness', 'tired', 'feling', 'ord, 'changes', 'common', 'stade', 'effects', 'of', 'drospirenone', 'and', 'ethiny', 'estradoil', 'may', 'include', 'na usea', 'vonting', 'breast', 'tenderness', 'headache', 'mood', 'changes', 'feeling', 'tired', 'or', 'iristable', 'weight', 'gain', 'or', 'change', 'in', 'your', 'menstrual', 'periods', 'decreased', 'see', 'drive', 'along', 'ustin', 'iristable', 'weight', 'gain', 'or', 'thange', 'in', 'your', 'menstrual', 'periods', 'decreased', 'see', 'drive', 'along', 'ustin', 'iristable', 'weight', 'gain', 'or', 'the', 'they', 'do', 'occur', 'they', 'any', 'need', 'edical', 'ustrettoin', 'check', 'with', 'your', 'doctor', 'mendidate', 'you', 'fi, 'any', 'of', 'the', 'following', 'side', 'effects', 'or', 'an', 'the', 'head', 'of', 'the', 'head', 'of', 'the', 'head', 'of', 'sa', 'head', 'the', 'an', 'head', 'of', 'sa', 'head', 'head', 'of', 'sa', 'head', 'of', 'sa', 'head', 'sa', 'infant', 'chest', 'pain', 'sa', 'sa',
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'or', 'a', 'decreased', 'sense', 'of', 'taste', 'hives', 'itching', 'severe', 'rash', 'swollen', 'glands', 'unusual', 'tiredness', 'fever', 'nausea', 'stomach', 'pain', 'lower', 'back', 'pain', 'painful', 'urination', 'blood', 'or', 'pus', 'in', 'your', 'urin e', 'chest', 'pain', 'cough', 'with', 'mucus', 'difficult', 'breathing', 'jaundice', 'yellowing', 'of', 'the', 'skin', 'or', 'eye s', 'swelling', 'of', 'your', 'face', 'lips', 'tongue', 'or', 'throat', 'some', 'of', 'these', 'signs', 'of', 'allergic', 'reactio n', 'have', 'occurred', 'when', 'minocycline', 'was', 'taken', 'by', 'mouth', 'in', 'a', 'pill', 'form', 'it', 'is', 'not', 'know n', 'whether', 'arestin', 'minocycline', 'powder', 'would', 'cause', 'these', 'same', 'effects', 'when', 'used', 'in', 'dentistr y', 'call', 'your', 'dentist', 'at', 'once', 'if', 'you', 'have', 'tooth', 'pain', 'pain', 'or', 'swelling', 'in', 'your', 'gums', 'fever', 'swollen', 'glands', 'rash', 'or', 'itching', 'joint', 'pain', 'or', 'swelling', 'muscle', 'aches', 'general', 'ill', 'fe eling', 'or', 'severe', 'skin', 'reaction', 'fever', 'sore', 'throat', 'swelling', 'in', 'your', 'face', 'or', 'tongue', 'burnin g', 'in', 'your', 'eyes', 'skin', 'pain', 'followed', 'by', 'a', 'red', 'or', 'purple', 'skin', 'rash', 'that', 'spreads', 'especi ally', 'in', 'the', 'face', 'or', 'upper', 'body', 'and', 'causes', 'blistering', 'and', 'peeling', 'common', 'side', 'effects', 'of', 'minocycline', 'may', 'include', 'inreased', 'tooth', 'sensitivity', 'pain', 'headache', 'infection', 'or', 'flu', 'like', 'symptoms', 'along', 'with', 'ist', 'needed', 'effects', 'a', 'medicine', 'may', 'cause', 'some', 'unwanted', 'effects', 'althoug h', 'not', 'all', 'of', 'these', 'side', 'effects', 'may', 'occur', 'if', 'they', 'do', 'occur', 'they', 'may', 'need', 'medical', 'attention', 'check', 'with', 'your', 'doctor', 'immediately', 'if', 'any', 'of', 'the', 'following', 'side', 'effects', 'or', 'shoulder', 'confusion', 'diarrhe ', 'infant', 'chest', 'pain', 'possibly', 'moving', 'to', 'the',
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organs', loss', off, 'appetite', 'nausea', 'or', 'vomiting', 'red', 'skin', 'lesions', 'often', 'with', 'a', 'purple', 'cente' ', 'severe', 'headache', 'severe', 'stomach', 'pain', 'sores', 'ulcers', 'or', 'white', 'spots', 'on', 'the', 'lips', 'or', 'in', 'the', 'mouth', 'troubled', 'breathing', 'unusual', 'bleeding', 'or', 'bruising', 'upusual', 'in', 'body', 'adjusts', 'to', 'the', 'medicine', 'also', 'your', 'health', 'care', 'professional', 'away', 'dcurn', 'theatth', 'usually', 'do', 'not', 'need', 'medical', 'attention', 'these', 'side', 'effects', 'way', 'dcurn', 'treather', 'as', 'your', 'body', 'adjusts', 'to', 'prevent', 'or', 'reduce', 'some', 'of', 'these', 'side', 'effects', 'check', 'with', 'your', 'health', 'care', 'professional', 'may', 'of', 'the', 'following', 'side', 'effects', 'continue', 'or', 'are', 'bothersome', 'or', 'if', 'you', 'have', 'a ny', 'questions', 'about', 'them', 'less', 'common', 'continuing', 'ringing', 'or', 'buzzing', 'or', 'other', 'unexplained', 'nois 'e', 'in', 'the', 'eskin', 'sleepiness', 'or', 'unusual', 'drowsiness', 'incidence', 'not', 'known', 'bloating', 'discoloration', 'of ', 'the', 'skin', 'sleepiness', 'or', 'unusual', 'drowsiness', 'incidence', 'not', 'known', 'bloating', 'discoloration', 'of ', 'the', 'toth', 'increased', 'sensitivity', 'of', 'the', 'skin', 'to', 'sunlight', 'indigestion', 'severe', 'sunburn', 'other', 'effects', 'out', 'unay', 'neport', 'side', 'effects', 'vou', 'nay', 'report', 'side', 'effects', 'out', 'in', 'some', 'patients', 'if', 'you', 'notice', 'any', 'other', 'effects', 'out', 'unay', 'report', 'side', 'effects', 'to', 'the', 'fda', 'at', 'l', '800', 'fda', 'l088', 'ffects', 'out', 'nay', 'report', 'side', 'effects', 'to', 'wi', 'fda', 'at', 'l', '800', 'fda', 'l088', 'ffects', 'out', 'nay', 'report', 'side', 'effects', 'stop', 'using', 'birth', 'control', 'pills', 'and', 'call', 'you', 'nav', 'serious', 'side', 'effects', 'using', 'using', 'birth', 'control', 'pills', 'and', 'call', 'you', 'nay', 'reserious', 'side', 'effects',
att, 'stop', 'using', 'benzoyl', 'penzokie', 'and', 'call', 'your, 'date', 'ary, 'if, 'you', 'have', 'any,' 'of', 'the se', 'side', 'effects', 'on', 'the', 'treated', 'skin', 'severe', 'itching', 'on', 'burning', 'severe', 'stinging', 'on', 'penling', 'common', 'side', 'effects', 'of', 'panoxyl', 'may', 'include', 'mild', 'stinging', 'on', 'burning', 'settoning', 'or', burning', 'severe', 'stinging', 'or', 'burning', 'severe', 'stinging', 'or', 'burning', 'severe', 'stinging', 'or', 'burning', 'severe', 'stinging', 'or', 'sometimes', 'deadly', 'side', 'effects', 'when', 'taking', 'a', 'drug', 'tell', 'your', 'doctor', 'or', 'get', 'medical', 'help', 'right', 'away', 'if', 'you', 'have', 'any', 'of', 'the', 'following', 'signs', 'or', 'symptoms', 'that', 'may,' 'be', 'related', 'to', 'a', 'very', 'bad', 'side', 'effects', 'signs', 'of', 'an', 'allergic', 'reaction', 'like', 'rash', 'hives', 'itching', 'red', 'swollen', 'blistered', 'or', 'peeling', 'skin', 'with', 'or', 'without', 'fever', 'wheezing', 'tightness', 'in', 'the', 'chest', 'or', 'throat', 'trouble', 'breathing', 'swellowing', 'or', 'taking', 'unusual', 'hoarseness', 'or', 'swelling', 'of', 'the', 'mouth', 'face', 'lips', 'tongue', 'or', 'throat', 'call, 'your', 'dace', 'fficult', 'breathing', 'swellowing', 'or', 'throat', 'call, 'your', 'dace', 'fficult', 'breathing', 'swellowing', 'or', 'throat', 'call, 'your', 'deressure', 'inside', 'the', 'skull', 'severe', 'headaches', 'ringing', 'in', 'your', 'ears', 'vision', 'problems', 'pain', 'benind', 'your', 'eyes', 'common', 'seysara', 'side', 'effects', 'may,' 'include', 'nausea', 'problems', 'withing', 'your', 'are', 'hispi', 'the', 'skin', 'wathing', 'your', 'are', 'hispi', 'your', 'seyser', 'maning', 'sensation', 'or', 'hearing', 'sensation', 'or', 'hearing', 'sensation', 'or', 'hearing', 'sensation', 'o
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cts', 'occur', 'incidence', 'not', 'known', 'absent', 'missed', 'or', 'irregular', 'menstrual', 'periods', 'anxiety', 'change', 'i n', 'vision', 'changes', 'in', 'skin', 'color', 'chest', 'pain', 'or', 'discomfort', 'chills', 'clay', 'colored', 'stools', 'const ipation', 'cough', 'dark', 'urine', 'diarrhea', 'dizziness', 'or', 'lightheadedness', 'fainting', 'fever', 'headache', 'hives', 'o r', 'welts', 'itching', 'skin', 'large', 'hive', 'like', 'swelling', 'on', 'the', 'face', 'eyelids', 'lips', 'tongue', 'throat', 'hands', 'legs', 'feet', 'or', 'sex', 'organs', 'loss', 'of', 'appetite', 'medium', 'to', 'heavy', 'irregular', 'vaginal', 'bleeding', 'between', 'regular', 'monthly', 'periods', 'which', 'may', 'require', 'the', 'use', 'of', 'a', 'pad', 'or', 'a', 'tampon', 'nausea', 'pain', 'or', 'discomfort', 'in', 'the', 'arms', 'jaw', 'back', 'or', 'neck', 'pain', 'tenderness', 'or', 'swelling', 'of', 'the', 'foot', 'or', 'leg', 'pains', 'in', 'the', 'chest', 'groin', 'or', 'legs', 'especially', 'in', 'the', 'calves', 'of', 'the', 'loss', 'pounding', 'in', 'the', 'ears', 'rash', 'redness', 'of', 'the', 'skin', 'severe', 'headaches', 'of', 'sudden', 'on set', 'slow', 'or', 'fast', 'heartbeat', 'stomach', 'pain', 'sudden', 'loss', 'of', 'coordination', 'or', 'slurred', 'speech', 'su dden', 'troubled', 'breathing', 'sweating', 'unusual', 'tiredness', 'or', 'weakness', 'vomiting', 'vomiting', 'of', 'blood', 'som e', 'side', 'effects', 'may', 'occur', 'that', 'usually', 'do', 'not', 'need', 'medical', 'attention', 'these', 'side', 'effects',
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with, instances, additional and the control of the
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e', 'sneezing', 'sore', 'throat', 'along', 'with', 'its', 'needed', 'effects', 'a', 'medicine', 'may', 'cause', 'some', 'unwante d', 'effects', 'although', 'not', 'all', 'of', 'these', 'side', 'effects', 'may', 'occur', 'if', 'they', 'do', 'occur', 'they', 'may', 'need', 'medical', 'attention', 'check', 'with', 'youn', 'dotor', 'immediale', 'if', 'any', 'of', 'the', 'following', 'side', 'effects', 'occur', 'less', 'common', 'pain', 'burning', 'blistering', 'changes', 'in', 'color', 'dryness', 'itching', 'peeling', 'redness', 'scaling', 'stinging', 'or', 'swelling', 'of', 'the', 'skin', 'where', 'the', 'medicine', 'is', 'applied', 'inciden ce', 'not', 'known', 'chest', 'tightness', 'cough', 'difficulty, 'swallowing', 'dizziness', 'fainting', 'fast', 'heartheat', 'hiv es', 'itching', 'or', 'skin', 'rash', 'increased', 'sensitivity', 'of', 'the', 'skin', 'to', 'swnlight', 'large', 'hive', 'like', 'swelling', 'on', 'sec', 'organs, 'redness', 'or', 'other', 'discoloration', 'of', 'the', 'skin', 'severe', 'sunburn', 'swelling', 'of', 'the', 'eyes', 'face', 'lips', 'or', 'tongu e', 'tightness', 'in', 'the', 'throat', 'trouble', 'breathing', 'unusual', 'tiredness', 'or', 'weakness', 'some', 'side', 'effects', 'may', 'go', 'awa y', 'during', 'treatment', 'as', 'your', 'body', 'adjusts', 'to', 'the', 'medicine', 'also', 'your', health', 'care', 'professional', 'if', 'any', 'of', 'the', 'following', 'side', 'effects', 'down', 'hel', 'sle', 'sle', 'effects', 'now', 'ways', 'to', 'prevent', 'or', 'reduce', 'some', 'of', 'these', 'side', 'effects', 'or', 'reduce', 'we', 'days', 'feeling', 'of', 'warmth', 'mild', 'stinging', 'and', 'redness', 'of', 'the', 'skin', 'other', 'side', 'effects', 'not', 'listed', 'may, 'also', 'occurr', 'in', 'some', 'patient s', 'if', 'you', 'notace', 'am', 'days', 'feeling', 'of', 'warmth', 'mild', 'stinging', 'and, 'redness', 'of', 'the', 'skin', 'other', 'side', 'effects', 'not', 'listed', 'effects', 'or', 'mildialely', 'if', 'any', 'of', 'the', 'skin', 'tohe', 'side', 'effects', 'alhough', 'no
fast, 'bearthest', Nives', ittching, 'on', Scin, 'rosh, 'increased', 'sensitivity', 'of', theb', 'skin, 'to', 'smalght', large, 'hiebe', 'like, 'sueling,' 'or', 'the', 'skin,' 'to', 'smalght', 'like,' 'swelling,' 'or', 'the', 'skin,' 'to', 'swelling,' 'or', 'the', 'skin,' 'to', 'the', 'skin,' 'to', 'the', 'skin,' 'trouble', 'oreating,' 'unsual', 'tiredness,' or 'on', 'tester', 'son', 'to', 'the', 'trouble', 'oreating,' 'unsual', 'tiredness,' or 'yester', 'son', 'to', 'the', 'you', 'bo', 'to', 'swell,' 'you', 'to', 'the', 'to', 'the', 'you', 'bo', 'to', 'swell,' 'to', 'the', 'you', 'bo', 'to', 'swell,' 'to', 'the', 'to', 'the', 'you', 'bo', 'any', 'unstruct,' 'any', 'to', 'the', 'following,' 'son', 'the', 'following,' 'to', 'skin,' 'to', 'skin
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'the', 'fda', 'at', 'l', '800', 'fda', '1088', 'acnomel', 'acne', 'mask', 'side', 'effects', 'along', 'with', 'its', 'needed', 'effects', 'a', 'medicine', 'may', 'cause', 'some', 'unwanted', 'effects', 'although', 'not', 'all', 'of', 'these', 'side', 'effect s', 'may', 'noed', 'medical', 'attention', 'check', 'with', 'youn', 'doctor', 'immediately', 'if', 'any', 'of', 'the', 'following', 'side', 'effects', 'occur', 'less', 'common', 'pain', 'burning', 'blisterin g', 'changes', 'in', 'kone', 'the', 'medicine', 'sif', 'peeling', 'redness', 'scaling', 'stinging', 'or', 'swelling', 'of', 'the', 'skin', 'to', 'medicine', 'sif', 'known', 'known', 'stinging', 'or', 'swelling', 'of', 'the', 'skin', 'to', 'sunlight', 'large', 'hive', 'like', 'swelling', 'or', 'skin', 'rash', 'increased', 'sensitivity', 'of', 'the', 'skin', 'to', 'sunlight', 'large', 'hive', 'like', 'swelling', 'or', 'skin', 'rash', 'increased', 'sensitivity', 'of', 'the', 'eyes', 'face', 'lips', 'or', 'toher', 'discoloration', 'of', 'the', 'skin', 'severe', 'sunburn', 'swelling', 'of', 'the', 'eyes', 'face', 'lips', 'or', 'toher', 'discoloration', 'of', 'the', 'skin', 'severe', 'sunburn', 'swelling', 'of', 'the', 'weakness', 'some', 'side', 'effects', 'may', 'doccur', 'that', 'usually', 'do', 'not', 'need', 'medical', 'attention', 'these', 'side', 'effects', 'may', 'during', 'treatment', 'as', 'your', 'body', 'adjusts', 'to', 'the', 'medicine', 'also', 'your', 'health', 'care', 'professional', 'may', 'be', 'able', 'to', 'tell', 'you', 'adpust', 'wey', 'men', 'soburt', 'wen', 'soburt', 'wen', 'soburt', 'wen', 'less', 'some', 'of', 'these', 'side', 'effects', 'check', with', 'your', 'health', 'care', 'professional', 'if', 'ayo', 'or', 'shin', 'may', 'occur', 'affect', 'any', 'ore', 'affect's', 'not', 'listed', 'may', 'also,' occur', 'nomon', 'dryness', 'or', 'peeling', 'of', 'the', 'skin', 'may', 'orcur', 'affect's', 'not', 'listed', 'may, 'also,', 'occur', 'affect's', 'not', 'may', 'or', 'shout', 'soburt', 'affect's', 'not', 'may', 'or', 'shout', 'soburt
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g', 'redness', 'swelling', 'blistering', 'oozing', 'or', 'other', 'skin', 'irritation', 'where', 'the', 'medicine', 'was', 'applie d', 'or', 'new', 'or', 'skin', 'irritation', 'or', 'irritation', 'skin', 'irritation', 'or', 'headache', 'hives', 'difficult', 'breathing', 'swelling', 'of', 'your', 'face', 'lips', 'tongue', 'or', 'throat', 'altreno', 'may', 'cause', 'serious', 'side', 'effects', 'call', 'your', 'doctor', 'at', 'on ce', 'if', 'you', 'have', 'severe', 'burning', 'stinging', 'or', 'irritation', 'of', 'treated', 'skin', 'severe', 'skin', 'drynes s', 'or', 'severe', 'redness', 'swelling', 'blistering', 'peeling', 'or', 'crusting', 'your', 'skin', 'may', 'be', 'more', 'sensit ive', 'to', 'weather', 'extremes', 'such', 'as', 'cold', 'and', 'wild', 'wille', 'using', 'altreno', 'common', 'side', 'effects', 'of', 'altreno', 'may', 'include', 'skin', 'pain', 'redness', 'burning', 'itching', 'or', 'irritation', 'sore', 'throat', 'mild', 'warmth', 'or', 'stinging', 'where', 'the', 'medicine', 'was', 'applied', 'or', 'changes', 'in', 'color', 'of', 'treated', 'skin', 'hives', 'diffficult', 'breathing', 'swelling', 'of', 'your', 'face', 'lips', 'tongue', 'or', 'throat', 'arazlo', 'may', 'cause', 'serious', 'side', 'effects', 'stop', 'using', 'arazlo', 'and', 'call', 'your', 'doctor', 'at', 'once', 'if', 'you', 'have', 'severe', 'skin', 'irritation', 'pain', 'dryness', 'flaking', 'peeling', 'burning', 'stinging', 'itching', 'after', 'applying', 'the', 'medicine', 'blistering', 'or', 'peeling', 'skin', 'sinf', 'skin', 'sinf', 'swere', 'redness', 'or', 'discomfort', 'or', 'swelling', 'warmth', 'oozing', 'or', 'other', 'signs', 'of', 'skin', 'sinf', 'swere', 'redness', 'or', 'itching', 'or', 'other', 'irritation', 'off', 'treate', 'skin', 'warming', 'caution', 'even', 'though', 'it', 'way', 'be', 'rare', 'some', 'people', 'may', 'have', 'warm', 'be', 'reate', 'swin', 'warming', 'caution', 'even', 'thewe', 'way', 'be', 'reation', 'reaction', 'like', 'rash', 'have', 'have', 'have', 'have', 'have', 'have', 'have', 'hav
new, but the out remain of neutrins, scallading to the relations and the second of the control o
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r', 'descring', 'tigetnest', 'tin', 'the', 'roser', 'ten', 'Throat', 'twodhie', 'howshing', 'malloding', 'or', 'talling', 'manager', 'malloding', 'or', 'talling', 'malloding', 'malloding', 'or', 'talling', 'malloding', 'mallod
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event', 'or', 'reduce', 'some', 'of', 'these', 'side', 'effects', 'check', 'with', 'your', 'health', 'care', 'professional', 'if', 'any', 'of', 'the', 'following', 'side', 'effects', 'continue', 'or', 'are', 'bothersome', 'or', 'if', 'you', 'hawe', 'any', 'ques tions', 'about', 'them', 'less', 'common', 'dryness', 'or', 'peeling', 'of', 'the', 'skin', 'other', 'side', 'effects', 'not', 'days', 'feeling', 'of', 'warmth', 'mild', 'stinging', 'and', 'redness', 'of', 'the', 'skin', 'other', 'side', 'effects', 'not', 'listed', 'may', 'also', 'occur', 'in', 'some', 'patients', 'if', 'you', 'notice', 'any', 'other', 'effects', 'check', 'with', 'your', 'nother', 'effects', 'check', 'with', 'your', 'report', 'side', 'effects', 'to', 'the', 'fda', 'a1', '1', '800', 'fda', '1088', 'benzefoam', 'ultra', 'side', 'effects', 'benzep ro', 'can', 'cause', 'a', 'rare', 'but', 'serious', 'allergic', 'reaction', 'or', 'severe', 'skin', 'irritation', 'these', 'reactions', 'may', 'occur', 'just', 'a', 'few', 'minutes', 'after', 'you', 'apply', 'the', 'medical', 'help', 'if', 'you', 'have', 'signs', 'of', 'an', 'allergic', 'reaction', 'hives', 'itching', 'difficult', 'breathing', 'feeling', 'light', 'headed', 'swelling', 'of', 'your', 'face', 'lips', 'tongue', 'or', 'throat', 'stop', 'using', 'benzoyl', 'peroxide', 'and', 'call', 'your', 'doctor', 'at', 'once', 'if', 'you', 'have', 'any', 'of', 'these', 'side', 'effects', 'on', 'the', 'reated', 'skin', 'severe', 'stiching', 'or', 'thenning', 'or', 'thenging', 'or', 'theng
sallegie, 'nextion, 'or', severe,' skin, 'srristation,' hiwes,' istching,' difficult, 'hnesthing,' recling,' light,' neaded, wealing, 'or', 'untox', 'thenat,' these,' reactions,' may,' occur,' just,' 'n,' few', 'ninntes', 'stein,' 'you', 'apply,' 'the', 'medicine, 'or', 'uththin,' 'a', 'day', 'or', 'longer', 'effectand', 'this', 'medicine, 'may,' cause', 'scolor,' 'at', 'or', 'cutsting,' 'or', 'readess,' 'of', 'readess,' 'stein,' '
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"dails, 'may', 'mrour', 'after, 'it', 'fear, 'days', 'fearling', 'of', 'saveth', 'with', 'stringing', 'men', 'reduces,' 'eff.' 'the', 'dails', 'it', 'effects', 'you', 'heart', 'string', 'regart', 'regart',
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ne', skin', 'symptoms', 'of', 'overdose', 'confusion', 'diarnhea', 'dizziness', 'fast', 'or', 'deep', 'breathing', 'headache', 's evere', 'or', 'continuing', 'hearing', 'loss', 'lightheadedness', 'nausea', 'rapid', 'breathing', 'ringing', 'or', 'buzzing', 'i n', 'the', 'ears', 'continuing', 'severe', 'drowsiness', 'stomach', 'pain', 'vomiting', 'some', 'side', 'effects', 'may', 'occur', 'that', 'usually', 'do', 'not', 'need', 'medical', 'attention', 'these', 'side', 'effects', 'may', 'go', 'away', 'during', 'treatment', 'as', 'your', 'body', 'adjusts', 'to', 'the', 'medicine', 'also', 'your', 'health', 'care', 'professional', 'may', 'or', 'reduce', 'some', 'of', 'these', 'side', 'effects', 'check', 'wi th', 'your', 'health', 'care', 'professional', 'if', 'any', 'of', 'the', 'following', 'side', 'effects', 'continue', 'or', 'are', 'bothersome', 'or', 'if', 'you', 'have', 'any', 'questions', 'about', 'them', 'more', 'common', 'skin', 'irritation', 'not', 'present', 'before', 'use', 'of', 'this', 'medicine', 'mild', 'stinging', 'other', 'side', 'effects', 'not', 'listed', 'may', 'also', 'occur', 'in', 'some', 'patients', 'if', 'you', 'notice', 'any', 'other', 'effects', 'check', 'with', 'your', 'healthcare', 'profe ssional', 'call', 'your', 'doctor', 'for', 'medical', 'advice', 'about', 'side', 'effects', 'with', 'your', 'healthcare', 'profe ssional', 'call', 'your', 'doctor', 'for', 'medical', 'advice', 'about', 'side', 'effects', 'with', 'your', 'healthcare', 'profe ssional', 'call', 'your', 'doctor', 'for', 'medicine', 'and', 'call', 'your', 'theo', 'fai', 'you', 'have', 'side', 'effects', 'side', 'effects', 'hives', 'difficul t', 'breathing', 'swelling', 'of', 'your', 'face', 'lips', 'tongue', 'or', 'throat', 'this', 'medicine', 'and', 'call', 'your', 'doctor', 'at', 'once', 'if', 'you', 'have', 's igns', 'of', 'a', 'stoke', 'sudden', 'numbness', 'or', 'weakness', 'especially', 'on', 'one', 'side', 'effects', 'blood', 'clot', 'sudden', 'vision', 'loss', 'stabbing', 'chest', 'pain', 'forestine', 'loer', 'stomac
     h', 'pain', 'tiredness', 'dark', 'urine', 'clay', 'colored', 'stools', 'jaundice', 'yellowing', 'of', 'the', 'skin', 'or', 'eyes', 'increased', 'blood', 'pressure', 'severe', 'headache', 'blurred', 'vision', 'pounding', 'in', 'your', 'neck', 'or', 'ears', 'swel ling', 'in', 'your', 'hands', 'ankles', 'or', 'feet', 'a', 'change', 'in', 'the', 'pattern', 'or', 'severity', 'of', 'migraine', 'headaches', 'or', 'symptoms', 'of', 'depression', 'sleep', 'problems', 'weakness', 'tired', 'feeling', 'mood', 'changes', 'commo n', 'side', 'effects', 'of', 'drospirenone', 'ethinyl', 'estradiol', 'and', 'levomefolate', 'may', 'include', 'nausea', 'breast', 'tenderness', 'headache', 'or', 'breakthrough', 'bleeding', 'warning', 'caution', 'even', 'though', 'it', 'may', 'be', 'rare', 'so me', 'people', 'may', 'have', 'very', 'bad', 'and', 'sometimes', 'deadly', 'side', 'effects', 'when', 'taking', 'a', 'drug', 'tel l', 'your', 'doctor', 'or', 'get', 'medical', 'help', 'right', 'away', 'if', 'you', 'have', 'any', 'of', 'the', 'following', 'sign s', 'or', 'symptoms', 'that', 'may', 'be', 'related', 'to', 'a', 'very', 'bad', 'side', 'effect', 'signs', 'of', 'an', 'allergic', 'reaction', 'like', 'rash', 'hives', 'itching', 'red', 'swollen', 'blistered', 'or', 'peeling', 'skin', 'with', 'or', 'without', 'fever', 'wheezing', 'tightness', 'in', 'the', 'chest', 'or', 'throat', 'tongue', 'or', 'throat', 'dulcolax', 'milk', 'of', 'magnesia', 'side', 'effects', 'although', 'not', 'sallong', 'with', 'its', 'needed', 'effects', 'a', 'medicine', 'may', 'cause', 'some', 'unwanted', 'effects', 'although', 'not', 'talk', 'iste', 'effects', 'may', 'occur', 'if', 'they', 'do', 'occur', 'they', 'may', 'effects', 'although', 'not', 'talk', 'dri, 'effects', 'although', 'not', 'talk', 'side', 'effects', 'may', 'occur', 'if', 'they', 'do', 'occur', 'they', 'may',
           h', 'pain', 'tiredness', 'dark', 'urine', 'clay', 'colored', 'stools', 'jaundice', 'yellowing', 'of', 'the', 'skin', 'or', 'eyes', 'increased', 'blood', 'pressure', 'severe', 'headache', 'blurred', 'vision', 'pounding', 'in', 'your', 'neck', 'or', 'ears', 'swel
 usual', 'hoarseness', 'or', 'swelling', 'of', 'the', 'mouth', 'face', 'lips', 'tongue', 'or', 'throat', 'dulcolax', 'malk', 'off, 'magnesia', 'side', 'effects', 'al', 'medicaine', 'may, 'cause', 'some', 'unwanted', 'effects', 'although', 'not', 'all', 'of', 'these', 'side', 'effects', 'may', 'occur', 'if', 'they', 'do', 'occur', 'they', 'may', 'need', 'medical', 'attention', 'check', 'with', 'your', 'doctor', 'immediately', 'if', 'any', 'of', 'the', 'following', 'side', 'effects', 'occur', 'less', 'common', 'or', 'rare', 'skin', 'irritation', 'not', 'present', 'before', 'use', 'of', 'this', 'medicine', 'moderate', 'or', 'severe', 'incidence', 'not', 'known', 'difficult', 'breathing', 'dryness', 'and', 'peeling', 'of', 'skin', 'fainting', 'hives', 'or', 'itching', 'redness', 'of', 'the', 'skin', 'swelling', 'of', 'the', 'eyes', 'face', 'lips', 'or', 'tong ue', 'tightness', 'in', 'throat', 'unusually', 'warm', 'skin', 'swmptoms', 'of', 'overdose', 'confusion', 'diarrhea', 'dizz iness', 'fast', 'or', 'deep', 'breathing', 'headache', 'severe', 'or', 'continuing', 'severe', 'drowsiness', 'stomach', 'pai n', 'vomiting', 'some', 'side', 'effects', 'may', 'occur', 'that', 'usually', 'do', 'not', 'need', 'medical', 'attention', 'these', 'side', 'effects', 'may', 'occur', 'that', 'usually', 'do', 'not', 'need', 'medical', 'attention', 'these', 'side', 'effects', 'may', 'occur', 'that', 'usually', 'your', 'adjusts', 'to', 'the', 'medicine', 'als o', 'your', 'health', 'care', 'professional', 'may', 'treatment', 'as', 'your', 'body', 'adjusts', 'to', 'the', 'medicine', 'als o', 'your', 'health', 'care', 'professional', 'if', 'you', 'health', 'ways', 'to', 'the', 'medicine', 'mid', 'stinging', 'other', 'side', 'effects', 'with', 'your', 'health', 'ways', 'us', 'medicine', 'mid', 'stinging', 'of', 'the', 'side', 'effects', 'with', 'your', 'h
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aginal, 'bleeding', 'pelvic', 'pain', 'a', 'breast', 'lump', 'memory', 'problems', 'confusion', 'unusual', 'behavion', 'on', 'high, 'levels', 'Of', 'calcium', 'in', 'your', 'blood', 'nausea', 'vomiting', 'constipation', 'inreased', 'thirst', 'or', 'urination', 'muscal', 'weakness', 'bome, 'pain', 'lack', 'off', energy', 'common', 'side', 'effects', 'of', 'ethiny', 'sertadiol', 'article, 'stomach', 'pain', 'bloating', 'swelling', weight', 'gain', breast', 'pain', 'light', 'varing', 'har', 'or', 'headache', 'hiver', 'difficult', 'sterdiol', 'swelling', 'cre', 'light', 'or', 'diarrhea', 'no', 'bowel', 'movement', 'after', 'using', 'fabr', 'light', 'or', 'light',
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      they, but, butth, following, side', 'effects,' occun', less,' common', 'or', 'rane', 'skin', 'irritation', 'not', 'present', 'before', 'use', 'of', 'this', 'medicine', 'moderate', 'or', 'severe', 'incidence', 'not', 'known', 'difficult', 'breathing', 'dry, 'not', 'present', 'or', 'itching', 'redness', 'of', 'the', 'skin', 'swelling', 'of', 'or', 'tching', 'redness', 'of', 'the', 'skin', 'swelling', 'of', 'or', 'tongue', 'tightness', 'in', 'the', 'throat', 'unusually', 'warm', 'skin', 'symptoms', 'of', 'ov' erdose', 'corofusion', 'diarrhea', 'diarrhea', 'fatt', 'or', 'deep', 'breathing', 'headache', 'severe', 'or', 'continuing', 'severe', 'drowsiness', 'stomach', 'pain', 'vomiting', 'some', 'side', 'effects', 'may', 'occur', 'that', 'usually', 'do', 'not', 'nee', 'not', 'ine', 'medicine', 'also', 'your', 'health', 'care', 'professional', 'may', 'dur', 'retament', 'as', 'your', 'body', 'adjust s', 'to', 'the', 'medicine', 'also', 'your', 'health', 'care', 'professional', 'may', 'or', 'uretament', 'as', 'your', 'about', 'ways', 'to', 'prevent', 'or', 'reduce', 'some', 'of', 'these', 'side', 'effects', 'continue', 'or', 'are', 'bothersome', 'or', 'revent', 'or', 'revent', 'or', 'reduce', 'some', 'of', 'the', 'following', 'side', 'effects', 'continue', 'or', 'are', 'bothersome', 'or', 'this', 'may', 'or', 'the', 'following', 'side', 'effects', 'continue', 'or', 'are', 'bothersome', 'or', 'this', 'may', 'other', 'side', 'effects', 'continue', 'or', 'are', 'bothersome', 'or', 'this', 'or', 'this', 'may', 'other', 'side', 'effects', 'continue', 'or', 'are', 'bothersome', 'or', 'dactor', 'or', 'are', 'bother', 'side', 'effects', 'warning', 'caution', 'even', 'this', 'or', 'dactor', 'or', 'may', 'notice', 'any', 'other', 'side', 'effects', 'warning', 'caution', 'even', 'though', 'it', 'may', 'be', 'rallenst', 'or', 'for', 'may', 'notice', 'any', 'of', 'the', 'fadi, 'at', 'ar', 'a
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throat, istop, lusing, inover, '8', '2', 'and, 'call', 'your, 'doctor', 'at', 'once', '1f', 'your, 'have', 'severe', 'ski n, 'Irritation, 'after, 'using,' the', 'redicine', 'scally, 'or', 'peeling', 'skin,' 'rediess,' 'or', 'swelling', 'or', 'irread', 'irritation', 'distriness,' common,' 'skid, 'effects,' of', 'inova,' '8', '2', 'may,' 'factode', 'dr y, 'skin,', 'or', 'mid,' 'call', 'your', 'scar', 'hives', 'difficult, 'breathing', 'severe', 'meader,' 'slaw,' 'scall', 'your', 'doctor', 'at', 'soco', 'if', 'your, 'have', 'isp', 'soco', 'if', 'your, 'have', 'slaw,' 'soco', 'soc
         s', 'chest', 'pain', 'or', 'pressure', 'pain', 'spreading', 'to', 'your', 'jaw', 'or', 'shoulder', 'nausea', 'sweating', 'liver', 'problems', 'loss', 'or', 'appetite', 'upper', 'stomach', 'pain', 'tiredness', 'fever', 'dark', 'urine', 'clay', 'colored', 'stool s', 'jaundice', 'yellowing', 'of', 'the', 'skin', 'or', 'eyes', 'severe', 'headache', 'pounding', 'in', 'your', 'neck', 'or', 'ear s', 'swelling', 'in', 'your', 'hands', 'ankles', 'or', 'feet', 'changes', 'in', 'the', 'pattern', 'or', 'severity', 'of', 'migrain e', 'headaches', 'a', 'breast', 'lump', 'or', 'smptoms', 'of', 'depression', 'sleep', 'problems', 'weakness', 'tired', 'feeling', 'mood', 'changes', 'common', 'side', 'effects', 'of', 'mono', 'linyah', 'may', 'include', 'stomach', 'pain', 'gas', 'nausea', 'vom iting', 'breast', 'tenderness', 'acne', 'darkening', 'of', 'facial', 'skin', 'headache', 'nervousness', 'mood', 'changes', 'proble ms', 'with', 'contact', 'lenses', 'changes', 'in', 'weight', 'breakthrough', 'bleeding', 'vaginal', 'itthing', 'or', 'dischange', 'or', 'rash', 'benzoyl', 'peroxide', 'can', 'cause', 'a', 'rare', 'but', 'serious', 'allergic', 'reaction', 'or', 'severe', 'skin', 'irritation', 'these', 'reactions', 'may', 'occur', 'just', 'a', 'few', 'minutes', 'after', 'you', 'apply', 'the', 'medicine', 'or', 'within', 'a', 'day', 'or', 'longer', 'afterward', 'stop', 'using', 'neuac', 'and', 'get', 'emergency, 'medical', 'help', 'if', 'you', 'have', 'signs', 'of', 'an', 'allergic', 'reaction', 'hives', 'itching', 'difficult', 'breathing', 'feeling', 'light', 'we', 'swelling', 'of', 'your', 'face', 'lips', 'tongue', 'or', 'throat', 'this', 'medicine', 'may', 'sside', 'effects', 'stop', 'using', 'medicine', 'and', 'call', 'your', 'doctor', 'at', 'once', 'if', 'you', 'have', 'sever e', 'redness', 'burning', 'stinging', 'or', 'peeling', 'of', 'treated', 'skin', 'area's, 'or', 'diarrhea', 'that', 'is', 'watery', 'or', 'tholody', 'common', 'side', 'effects', 'of', 'meauca', 'may', 'include', 'mild', 'burning', 'ithe', 'madicine', 'or', '
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"swelling", "of", 'your", 'face', 'lips', 'tongue', 'on', 'throat', 'ston', 'using', 'benzeyl', 'peroxide', 'and', 'call', 'your', 'doctor', 'at', 'once', 'if', 'your', 'have', 'any', 'of', 'these', 'side', 'effects', 'on', 'the', 'treated', 'skin', 'severe', 'stringing', 'or', 'reinging', 'or', 'pening', 'common', 'skie', 'effects', 'of', 'neutrogena', 'acne', 'nask', 'nay', 'include', 'mild', 'stinging', 'or', 'turning', 'itching', 'or', 'tingly', 'fecling', 'skin', 'dryness', 'peeling', 'com', 'faking', 'or', 'reiness', 'or', 'other', 'intration', 'hive', 'difficult', 'have', 'signs', 'skelling', 'skin', 'other', 'altriation', 'hive', 'difficult', 'have', 'signs', 'skelling', 'skin', 'other', 'stration', 'hive', 'defer', 'all', 'your', 'doctor', 'st', 'once', 'if', 'you', 'have', 'signs', 'of', 'a', 'hishe', 'sudden', 'westens', 'slon', 's
      known, 'difficult, 'breathing, 'dryness,' and', peeling,' of', 'skin,' 'fainting,' hives', 'or,' itching,' redness,' or,' the', 'eyes', 'face', 'lips', 'or', 'tongue,' 'tightness', 'or', 'tdeep', 'breathing,' 'neada,' 'n,' 'the', 'ears', 'skin', 'swelling,' of', 'overdose', 'confusion', 'diarrhea', 'dizziness', 'fast', 'or', 'deep', 'breathing', 'neada,' 'n,' 'the', 'ears', 'continuing', 'hearing', 'losa', 'lightneaddenss', 'nausaa', 'rapid', 'breathing', 'inging', 'or', 'buzzing', 'in', 'the', 'ears', 'continuing', 'severe', 'drowsiness', 'stomach', 'pain', 'vomiting', 'some', 'side', 'effects', 'may', 'go', 'away', 'during', 'treatment', 'ast', 'your', 'body', 'adjusts', 'to', 'the', 'medicine', 'also', 'your', health', 'care', 'professional', 'may', 'to', 'reduer', 'so', 'reduer', 'so', 'reduer', 'so', 'reduer', 'so', 'the', 'side', 'effects', 'check', 'with', 'your', 'health', 'care', 'professional', 'if', 'any', 'of', 'the', 'following', 'side', 'effects', 'check', 'with', 'your', 'have', 'any', 'questions', 'about', 'them', 'more', 'common', 'skin', 'irritation', 'no', 'reduer', 'befroc', 'befroc', 'side', 'effects', 'the', 'professional', 'call', 'your', 'andicine', 'malid', 'stinging', 'other', 'side', 'effects', 'not', 'may', 'also', 'occur', 'in', 'some', 'patients', 'if', 'you', 'nottice', 'any', 'other', 'side', 'effects', 'not', 'may', 'report', 'side', 'effects', 'to', 'the', 'fda', 'at', '1', '80%, 'fda', '1888', 'p', 's', 'side', 'effects', 'wanning', 'caution', 'even', 'the', 'may', 'be', 'neadical', 'help', 'inght', 'away', 'if', 'you', 'have', 'any', 'or', 'wanning', 'sall', 'wanning', 'sall', 'side', 'effect', 'when', 'taking', 'a', 'drug', 'tell', your', 'doctor', 'or', 'sget', 'medical', 'help', 'inght', 'away', 'if', 'you', 'have', 'any', 'of', 'the', 'following', 'or', 'staking', 'a', 'drug', 'tell', your', 'aboctor', 'or', 'sget', 'medical', 'help', 'inght', 'away', 'if', 'you', 'have', 'any', 'of', 'the', 'following', 'or', 'the', 'following', 'sign', 'or', 'wanning', 'caution', 'eren'
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t', 'trouble', 'breathing', 'swallowing', 'or', 'talking', 'unusual', 'hoarseness', 'or', 'swelling', 'of', 'the', 'mouth', 'fac e', 'lips', 'tongue', 'or', 'throat', 'mood', 'changes', 'fast', 'breathing', 'upset', 'stomach', 'or', 'throwing', 'up', 'ringin g', 'in', 'the', 'ears', 'hearing', 'loss', 'or', 'any', 'other', 'changes', 'in', 'hearing', 'dizziness', 'feeling', 'very', 'tir ed', 'or', 'weak', 'diarrhea', 'propa', 'ph', 'acne', 'med', 'cleansing', 'side', 'effects', 'hives', 'difficult', 'breathing', 's welling', 'of', 'your', 'face', 'lips', 'tongue', 'or', 'throat', 'although', 'the', 'risk', 'of', 'serious', 'side', 'effects', 'is', 'low', 'when', 'r', 'a', 'acne', 'is', 'applied', 'to', 'the', 'skin', 'side', 'effects', 'can', 'occur', 'if', 'medicine', 'is', 'absorbed', 'into', 'your', 'bloodstream', 'your', 'body', 'may', 'absorb', 'this', 'medicine', 'through', 'the', 'skin', 'ir', 'you', 'use', 'too', 'much', 'or', 'if', 'you', 'apply', it', 'over', 'large', 'skin', 'areas', 'skin', 'that', 'is', 'absorb', 'more', 'medicine', 'this', medicine', 'this', 'medicine', 'and', 'call', 'your', 'dotoro', 'at', 'once', 'if', 'you', 'have', 'headache', 'tire d', 'feeling', 'shortness', 'of', 'breath', 'blue', 'colored', 'skin', 'fast', 'or', 'irregular', 'heartbeats', 'seizure', 'convul sions', 'or', 'weak', 'or', 'shallow', 'breathing', 'children', 'can', 'absorb', 'larger', 'amounts', 'of', 'this', 'medicine', 'through', 'the', 'skin', 'ad', 'med', 'slin', 'is', 'applied', 'to', 'the', 'skin', 'side', 'effects', 'can', 'occur', 'if', 'the', 'medicine', 'is', 'low', 'when', 'resinol', 'is', 'applied', 'to', 'the', 'skin', 'side', 'effects', 'can', 'occur', 'if', 'the', 'skin', 'if', 'you', 'absorb', 'this', 'medicine', 'through', 'the', 'shin', 'in', 'areas', 'skin', 'that', 'is', 'cut', 'or', 'irritated', 'may', 'also', 'apsorb', 'more', 'medicine', 'this', 'medicine', 'through', 'the', 'shin', 'and', 'may', 'also', 'absorb', 'larger', 'amounts', 'of', 'this', 'medicine', 'through', 'the', 'skin', '
            'occur', 'if', 'they', 'do', 'occur', 'they', 'may', 'need', 'medical', 'attention', 'check', 'with', 'your', 'doctor', 'as', 'soo n', 'as', 'possible', 'if', 'any', 'of', 'the', 'following', 'side', 'effects', 'occur', 'less', 'common', 'or', 'rare', 'skin', 'irritation', 'not', 'present', 'before', 'use', 'of', 'resorcinol', 'and', 'sulfur', 'symptoms', 'of', 'resorcinol', 'poisoning', 'diarrhea', 'nausea', 'stomach', 'pain', 'or', 'vomiting', 'dizziness', 'drowsiness', 'headache', 'severe', 'or', 'continuing', 'n
occur, 'if', 'they,' do', 'occur,' they,' nay', need, 'medical', 'stention', 'check', 'with', 'your,' 'doctor', 'as', 'son', 'as', 'son', 'as', 'possible', 'if', 'any', 'of', 'resorcinol', 'and', 'sulfur', 'syntoms', of', 'resorcinol', 'polsoning', 'incitation', 'not', 'present', 'before', 'use', 'of', 'resorcinol', 'and', 'sulfur', 'syntoms', of', 'resorcinol', 'polsoning', 'diarrhus', 'mascal', 'stenden', 'soin', 'weakness', 'of', 'resorcinol', 'and', 'sulfur', 'syntoms', 'of', 'resorcinol', 'polsoning', 'noussal', 'tiredness', 'on', 'weakness', 'some, 'side', 'effects', 'nay', 'occur', 'that', 'your', 'boty', 'ads', 'resort', 'resort', 'or', 'resort', 'resort',
                                                                                                                                                                                                             'do', 'occur', 'they', 'may', 'need', 'medical', 'attention', 'check', 'with', 'your', 'doctor', 'as', 'soo
          eadache', 'severe', 'or', 'continuing', 'hearing', 'loss', 'lightheadedness', 'nausea', 'rapid', 'breathing', 'ringing', 'or', 'bu zzing', 'in', 'the', 'ears', 'continuing', 'severe', 'drowsiness', 'stomach', 'pain', 'vomiting', 'some', 'side', 'effects', 'may y', 'occur', 'that', 'usually', 'do', 'not', 'need', 'medical', 'attention', 'these', 'side', 'effects', 'may', 'go', 'away', 'dur ing', 'treatment', 'as', 'your', 'body', 'adjusts', 'to', 'the', 'medicine', 'also', 'your', 'health', 'care', 'professional', 'may y', 'be', 'able', 'to', 'tell', 'you', 'about', 'ways', 'to', 'prevent', 'or', 'reduce', 'some', 'of', 'these', 'side', 'effects',
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'card', 'utins', 'year', 'health', 'card', 'penfescinal', 'is', 'apy, 'or', 'that, 'following', 'cide', 'oeffects', 'continue,' 'or', 'art', 'year', 'health' or', 'is', 'art', 'year', 'health', 'ber', 'gen', 'health', 'ber', 'gen', 'health', 's', 'art', 'art', 'health', 'ther', 'art', 'star', 'art', 'health', 'ther', 'art', 'art', 'health', 'ther', 'art', 'art', 'health', 'ther', 'art', 'art', 'health', 'ther', 'art', 'ther', 'health', 'ther', 'art', 'art', 'art', 'ther', '
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y', 'side', 'effects', 'when', 'taking', 'a', 'drug', 'tell', 'your', 'doctor', 'or', 'get', 'medical', 'help', 'right', 'away', 'if', 'you', 'have', 'any', 'of', 'the', 'following', 'signs', 'or', 'symptoms', 'that', 'may', 'be', 'related', 'to', 'a', 'ver y', 'bad', 'side', 'effect', 'signs', 'of', 'an', 'allergic', 'reaction', 'like', 'rash', 'hives', 'itching', 'red', 'swollen', 'blistered', 'or', 'peeling', 'skin', 'with', 'or', 'without', 'fever', 'wheezing', 'tightness', 'in', 'the', 'chest', 'or', 'throat', 'trouble', 'breathing', 'swallowing', 'or', 'taking', 'unusual', 'hoarseness', 'or', 'swelling', 'of', 'the', 'mouth', 'fac e', 'lips', 'tongue', 'or', 'throat', 'skin', 'irritation', 'rarely', 'very', 'bad', 'effects', 'have', 'happened', 'with', 'sulf a', 'drugs', 'sometimes', 'these', 'have', 'been', 'deadyly', 'these', 'effects', 'have', 'included', 'liver', 'problems', 'blood', 'problems', 'and', 'very', 'bad', 'skin', 'reactions', 'stevens', 'johnson', 'syndrome', 'toxic', 'epidermal', 'necrolysis', 'cal l', 'your', 'doctor', 'right', 'away', 'if', 'you', 'mouth', 'throat', 'nose', 'or', 'eyes', 'fever', 'chills', 'or', 'sore, 'throat', 'cough', 'that', 'is', 'new', 'or', 'worse', 'feeling', 'very', 'tired', 'or', 'weak', 'any', 'bruising', 'or', 'bleeding', 'or', 'signs', 'of', 'liver', 'problems', 'like', 'daak', 'urine', 'feeling', 'tired', 'nort, 'hungry', 'upset', 'stomach', 'or', 'stomach', 'pain', 'light', 'colored', 'stools', 'throwing', 'up', 'or', 'yellow', 'skin', 'or', 'eyes', 'sss', '10', '4', 'si de', 'effects', 'warning', 'caution', 'even', 'though', 'it', 'may', 'be', 'rare', 'some', 'people', 'may', 'have', 'veny', 'bad', 'and', 'sometimes', 'deadly', 'side', 'effects', 'when', 'thany', 'be', 'rare', 'some', 'people', 'may', 'have', 'any', 'be', 'related', 'to', 'a', 'warning', 'caution', 'eyen', 'though', 'it', 'may', 'be', 'rare', 'some', 'people', 'may', 'have', 'warning', 'caution', 'signs', 'of', 'the', 'following', 'signs', 'or', 'symptoms', 'that', 'warning', 'caution', 
n', problems', 'blood', 'problems', 'and', 'very', 'bad', 'skin', 'reactions', 'stevens', 'johnson', 'syndrome', 'toxic', 'epidem aal', 'necnojysis', 'call', 'your', 'docton', 'ripitated', 'eyes', 'sores', 'in', 'your', 'mouth', 'throat', 'nose', 'or', 'wollen', 'blistered', 'or', 'problems', 'or', 'wose', 'real'ng', 'or', 'wollen', 'blistered', 'or', 'yes', 'fever', 'chils', 'or', 'sore', 'throat', 'cough', 'that', 'is', 'new', 'or', 'worse', 'feeling', 'tired', 'or', 'wesk', 'any', 'b' russet', 'stonach', 'or', 'stonach', 'pain', 'light', 'cloned', 'stools', 'throwing', 'Up', 'or', 'yellow', 'skin', 'or', 'eyes', 'ssss', '18', '5', 'side', 'effects', 'stri', 'dex', 'can', 'cause', 'a', 'rare', 'but', 'serious', 'allergic', 'reaction', 'or', 'severe', 'skin', 'irritation', 'these', 'reactions', 'may', 'occur', 'just', 'a', 'few', 'minutes', 'after', 'you', 'apply', 'the', 'medicine', 'or', 'within', 'a', 'day', 'or', 'longen', 'afterward', 'stop', 'usin', 'fise', 'minutes', 'afteriny, 'get', 'mer', 'medical', 'help', 'if', 'you', 'have', 'signs', 'of', 'an', 'allergic', 'reaction', 'hives', 'itching', 'difficult', 'breathing', 'feeling', 'light', 'headed', 'swelling', 'of', 'your', 'face', 'lips', 'tonge', 'or', 'throat', 'also', 'stop', 'usin' 'get', 'get', 'stri', 'dex', 'and', 'call', 'you', 'might', 'pass', 'out', 'shorthess', 'of', 'stri', 'swere', 'burning', 'dryn 'ss', 'or', 'sr', 'sr'
             sty, 'difficult', 'breathing', 'swelling', 'of', 'your', 'face', 'lips', 'tongue', 'or', 'throat', 'sulfur', 'topical', 'may', 'cau se', 'serious', 'side', 'effects', 'call', 'your', 'doctor', 'at', 'once', 'if', 'you', 'have', 'severe', 'burning', 'redness', 'or', 'swelling', 'where', 'the', 'medicine', 'was', 'applied', 'severe', 'dryness', 'or', 'peeling', 'of', 'treated', 'skin', 'or', 'new', 'or', 'worsening', 'skin', 'symptoms', 'common', 'side', 'effects', 'of', 'sulfur', 'topical', 'may', 'include', 'mild', 'b
  r', 'swelling', 'where', 'the', 'medicine', 'was', 'applied', 'severe', 'dryness', 'or', 'peeling', 'of', 'treated', 'skin', 'or', 'new', 'or', 'worsening', 'skin', 'symptoms', 'common', 'side', 'effects', 'of', 'sulfur', 'topical', 'may', 'include', 'mild', 'b urning', 'tingling', 'stinging', 'itching', 'or', 'redness', 'peeling', 'dryness', 'or', 'oily', 'skin', 'hives', 'difficult', 'br eathing', 'swelling', 'of', 'your', 'face', 'lips', 'tongue', 'or', 'throat', 'sulpho', 'lac', 'soap', 'may', 'cause', 'serious', 'side', 'effects', 'call', 'your', 'doctor', 'at', 'once', 'if', 'you', 'have', 'severe', 'burning', 'redness', 'or', 'swelling', 'where', 'the', 'medicine', 'was', 'applied', 'severe', 'dryness', 'or', 'peeling', 'of', 'treated', 'skin', 'or', 'new', 'or', 'worsening', 'skin', 'symptoms', 'common', 'side', 'effects', 'of', 'sulpho', 'lac', 'soap', 'may', 'include', 'mild', 'burning', 'tingling', 'stinging', 'itching', 'or', 'irritation', 'of', 'treated', 'skin', 'redness', 'warmth', 'swelling', 'itching', 'stinging', 'burning', 'or', 'irritation', 'of', 'treated', 'skin', 'redness', 'warmth', 'swelling', 'itching', 'stinging', 'burning', 'or', 'throat', 'birth', 'control', 'pills', 'may', 'cause', 'serious', 'side', 'effects', 'stop', 'using', 'birth', 'control', 'pills', 'may', 'cause', 'serious', 'side', 'effects', 'stop', 'using', 'birth', 'control', 'pills', 'nad', 'call', 'your', 'doctor', 'at', 'once', 'if', 'you', 'have', 'signs', 'of', 'a', 'stroke', 'slurned', 'speech', 'problems', 'with', 'vision', 'or', 'balance', 'side', 'of', 'the', 'body', 'sudden', 'severe', 'headache', 'slurned', 'speech', 'problems', 'with', 'vision', 'or', 'breath', 'or', 'pressure', 'pain', 'seveading', 'to', 'your', 'jaw', 'or', 'sholler', 'nause a', 'sweating', 'liver', 'problems', 'loss', 'of', 'appetite', 'upper', 'stomach', 'pain', 'tiredness', 'dark', 'urine', 'clay', 'colored', 'stols', 'yaun', 'or', 'seerity', 'have', 'semer', 'headache', 'burning', 'teeling', 'warning', 'catalon', 'teeling', 'mood', 'ch
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g', 'skin', 'with', 'or', 'without', 'fever', 'wheezing', 'tightness', 'in', 'the', 'chest', 'or', 'throat', 'trouble', 'breathing', 'swallowing', 'or', 'talking', 'unusual', 'hoarseness', 'or', 'swelling', 'or', 'the', 'mouth', 'face', 'lips', 'tongue', 'or', 'throat', 'mood', 'changes', 'fast', 'breathing', 'upset', 'stomach', 'or', 'throwing', 'up', 'ringing', 'in', 'the', 'ears', 'hearing', 'loss', 'or', 'any', 'other', 'changes', 'in', 'hearing', 'dizziness', 'feeling', 'very', 'tired', 'or', 'weak', 'diarr hea', 'tinamed', 'plantar', 'side', 'effects', 'wanning', 'caution', 'even', 'though', 'it', 'may', 'be', 'rare', 'some', 'people', 'may', 'have', 'very', 'bad', 'and', 'some', 'medical', 'help', 'right', 'away', 'if', 'you', 'have', 'any', 'of', 'the', 'following', 'signs', 'or', 's ymptoms', 'that', 'may', 'be', 'related', 'to', 'a', 'very', 'bad', 'side', 'effect', 'signs', 'of', 'an', 'allergic', 'reaction', 'like', 'rash', 'hives', 'itching', 'red', 'swollen', 'blistered', 'or', 'peeling', 'skallowing', 'or', 'talking', 'unusual', 'hoar seness', 'or', 'swelling', 'or', 'the', 'mouth', 'face', 'lips', 'tongue', 'or', 'throat', 'signs', 'of', 'liver', 'problems', 'li ke', 'dark', 'urine', 'feeling', 'tired', 'nort', 'hungry', 'upset', 'stomach', 'or', 'stomach', 'or', 'stomach', 'or', 'gallbladder', 'problems', 'li ke', 'dark', 'urine', 'feeling', 'tired', 'nort', 'hungry', 'upset', 'signs', 'of', 'high', 'blood', 'pressure', 'like', 'very', 'bad', 'he adache', 'or', 'dizziness', 'passing', 'out', 'or', 'change', 'in', 'shoulder', 'signs', 'of', 'gallbladder', 'problems', 'like', 'pain', 'in', 'the', 'upper', 'right', 'belly', 'area', 'right', 'shoulder', 'srea', 'or', 'between', 'the', 'shoulder', 'like', 'very', 'bad', 'ke adache', 'or', 'dizziness', 'feeling', 'with', 'or', 'shoulder', 'rea', 'or', 'thinking', 'change', 'in', 'balance', 'droopin g', 'very', 'tired', 'or', 'wak', 'swelling', 'or', 'teres', 'with', 'or', 'alloating', 'or', 'thinking', 'or', 'thenge', 'in', 'bod', 'changes', 'feeling
and very titted on wear, ameling-ment, post, to pass, standard, and the provided of the ching of a disherpet, tegrispit, thouges, or, or, loss, building, eyes, or, change, in, bow, tocatch, lesse s, feel, call, your, isoctore, reignt, away, iff, your, have, signs, orf, change, in, in, bow, tocatch, lesse s, feel, call, your, isoctore, reignt, away, iff, your, have, signs, orf, change, in, incomess, thenge, to f, call, the control of the
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e', 'effects', 'including', 'local', 'skin', 'reactions', 'winlevi', 'cream', 'may', 'cause', 'local', 'skin', 'irritation', 'including', 'itching', 'burning', 'skin', 'redness', 'or', 'peeling', 'symptoms', 'of', 'a', 'disorder', 'where', 'the', 'adrenal', 'g land', 'does', 'not', 'make', 'enough', 'of', 'certain', 'hormones', 'adrenal', 'insufficiency', 'during', 'treatment', 'with', 'w inlevi', 'if', 'you', 'develop', 'any', 'adrenal', 'problems', 'the', 'most', 'common', 'side', 'effects', 'of', 'winlevi', 'cream', 'include', 'reddening', 'scaling', 'or', 'dryness', 'and', 'itching', 'of', 'the', 'skin', 'being', 'treated', 'these', 'are', 'not', 'all', 'of', 'the', 'possible', 'side', 'effects', 'call', 'your', 'healthcare', 'provider', 'for', 'medical', 'advice', 'about', 'side', 'effects', 'you', 'may', 'report', 'side', 'effects', 'to', 'fda', 'at', '1', '800', 'fda1088', 'winlevi', 'side', 'effects', 'benzoyl', 'peroxide', 'can', 'cause', 'a', 'rare', 'but', 'serious', 'allergic', 'reaction', 'or', 'severe', 'skin', 'irritation', 'these', 'reactions', 'may', 'occur', 'just', 'a', 'few', 'minutes', 'after', 'you', 'apply', 'the', 'medicine', 'or', 'within', 'a', 'day', 'or', 'longer', 'a 'fterward', 'stop', 'using', 'z', 'clinz', '10', 'and', 'get', 'emergency', 'medical', 'help', 'if', 'you', 'have', 'signs', 'of', 'an', 'allergic', 'reaction', 'hives', 'itching', 'difficult', 'breathing', 'feeling', 'light', 'headed', 'swelling', 'of', 'you r', 'face', 'lips', 'tongue', 'or', 'throat', 'this', 'medicine', 'may', 'cause', 'serious', 'side', 'effects', 'stop', 'using', 'an', 'allergic', 'reaction', 'hives', 'itching', 'difficult', 'breathing', 'feeling', 'light', 'headed', 'swelling', 'of', 'you r', 'face', 'lips', 'tongue', 'or', 'throat', 'this', 'medicine', 'may', 'cause', 'serious', 'side', 'effects', 'stop', 'using', 'this', 'medicine', 'and', 'call', 'your', 'doctor', 'at', 'once', 'if', 'you', 'have', 'severe', 'redness', 'burning', 'stingin g', 'or', 'peeling', 'of', 'treated', 'skin', 'areas', 'or', 'diarrhea', 'that', 'is', 'watery', 'or', 'bloody', 'common', 'side', 'effects', 'of', 'z', 'clinz', '10', 'may', 'include', 'mild', 'burning', 'or', 'stinging', 'itching', 'or', 'tingly', 'feeling', 'dryness', 'or', 'peeling', 'or', 'treated', 'skin', 'or', 'redness', 'or', 'other', 'irritation', 'hives', 'difficult', 'breathin g', 'swelling', 'of', 'your', 'face', 'lips', 'tongue', 'or', 'throat', 'birth', 'control', 'pills', 'may', 'cause', 'serious', 's ide', 'effects', 'stop', 'using', 'birth', 'control', 'pills', 'and', 'call', 'your', 'doctor', 'at', 'once', 'if', 'you', 'have', 'signs', 'of', 'a', 'stroke', 'sudden', 'numbness', 'or', 'weakness', 'especially', 'on', 'one', 'side', 'of', 'the', 'body', 'sud den', 'severe', 'headache', 'slurred', 'speech', 'problems', 'with', 'vision', 'or', 'balance', 'signs', 'of', 'a', 'blood', 'clo t', 'sudden', 'vision', 'loss', 'stabbing', 'chest', 'pain', 'feeling', 'short', 'of', 'breath', 'coughing', 'up', 'blood', 'pain', 'or', 'warmth', 'in', 'one', 'or', 'both', 'legs', 'heart', 'attack', 'symptoms', 'chest', 'pain', 'or', 'pressure', 'pain', 'spreading', 'to', 'your', 'jaw', 'or', 'shoulder', 'nausea', 'sweating', 'liver', 'problems', 'loss', 'of', 'the', 'skin', 'or', 'eyes', 'increased', 'blood', 'pressure', 'severe', 'headache', 'blurred', 'vision', 'pounding', 'in', 'your', 'neck', 'or', 'ear 'spreading', 'to', 'your', 'jaw', 'or', 'shoulder', 'nausea', 'sweating', 'liver', 'problems', 'loss', 'of', 'appetite', 'upper', 'stomach', 'pain', 'tiredness', 'dark', 'urine', 'clay', 'colored', 'stools', 'jaundice', 'yellowing', 'of', 'the', 'skin', 'or', 'eyes', 'increased', 'blood', 'pressure', 'sewere', 'headache', 'blurned', 'vision', 'pounding', 'in', 'your', 'neck', 'or', 'ear s', 'swelling', 'in', 'your', 'hands', 'ankles', 'or', 'feet', 'a', 'change', 'in', 'the', 'pattern', 'or', 'severity', 'of', 'mig raine', 'headaches', 'or', 'symptoms', 'of', 'depression', 'sleep', 'problems', 'weakness', 'trenderness', 'headache', 'mood', 'changes', 'feeling', 'tired', 'or', 'irritable', 'weight', 'gain', 'or', 'changes', 'in', 'your', 'menstrual', 'periods', 'decrease d', 'sex', 'drive', 'wanning', 'caution', 'ever', 'though', 'it', 'may', 'be', 'rane', 'some', 'people', 'may', 'have', 'wery', 'b' ad', 'sde', 'effect', 'when', 'taking', 'a', 'drug', 'tell', 'your', 'doctor', 'or', 'get', 'medic al', 'help', 'right', 'away', 'if', 'you', 'have', 'any', 'of', 'the', 'following', 'signs', 'or', 'symptoms', 'that', 'may', 'b' e', 'real'ed', 'to', 'a', 'very', 'bad', 'side', 'effect', 'signs', 'of', 'an', 'allergic', 'reaction', 'like', 'rash', 'hives', 'itching', 'red', 'swollen', 'blistered', 'or', 'peeling', 'skin', 'with', 'or', 'without', 'fever', 'wheezing', 'tightness', 'in', 'the', 'chest', 'or', 'throat', 'trouble', 'breathing', 'swallowing', 'or', 'talking', 'unusual', 'hoarseness', 'or', 'swelling', 'tired', 'not', 'hungry', 'upset', 'stomach', 'or', 'stomach', 'pain', 'light', 'colored', 'stools', 'throwing', 'up', 'or', 'tfeeling', 'tor', 'might', 'breath', 'or', 'stomach', 'pain', 'light', 'colored', 'stools', 'throwing', 'up', 'or', 'tfeeling', 'or', 'shortness', 'of', 'breath', 'signs', 'of', 'high', 'blood', 'pressure', 'like', 'very', 'ba', 'hlades', 'pain', 'in', 'he', 'breath', 'win', 'or', 'eyes', 'signs', 'of', 'high', 'bload', 'or', 'bladee', 'or', 'throwing', 'up', 'weakness', 'or', 'throwi

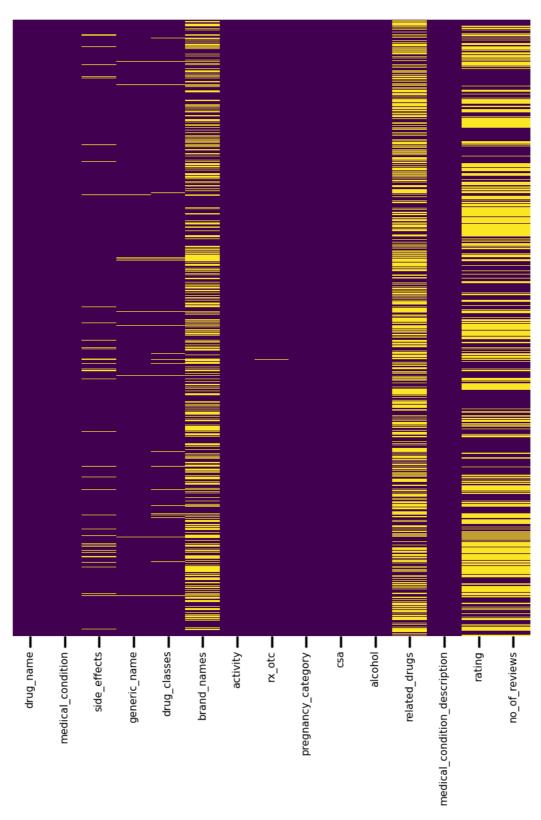
In [234... print("After data preprocessing, data is as follows:")

After data preprocessing, data is as follows:

	drug_name	$medical\_condition$	side_effects	generic_name	drug_classes	brand_names	activity	rx_otc	pregnancy_category	/ CS	sa
0	doxycycline	Acne	(hives, difficult breathing, swelling in your	doxycycline	Miscellaneous antimalarials, Tetracyclines	Acticlate, Adoxa CK, Adoxa Pak, Adoxa TT, Alod	87%	Rx	C	)	Ν
1	spironolactone	Acne	hives ; difficulty breathing; swelling of your	spironolactone	Aldosterone receptor antagonists, Potassium-sp	Aldactone, CaroSpir	82%	Rx	C		Ν
2	minocycline	Acne	skin rash, fever, swollen glands, flu- like sym	minocycline	Tetracyclines	Dynacin, Minocin, Minolira, Solodyn, Ximino, V	48%	Rx	C	)	Ν
3	Accutane	Acne	problems with your vision or hearing; muscle o	isotretinoin (oral)	Miscellaneous antineoplastics, Miscellaneous u	NaN	41%	Rx	>	(	Ν
4	clindamycin	Acne	hives ; difficult breathing; swelling of your	clindamycin topical	Topical acne agents, Vaginal anti-infectives	Cleocin T, Clindacin ETZ, Clindacin P, Clindag	39%	Rx	E	}	Ν
							•••				
2926	benzphetamine	Weight Loss	hives; difficulty breathing; swelling of your	benzphetamine	Anorexiants, CNS stimulants	Didrex, Regimex	2%	Rx	×	(	Ξ
2927	fenfluramine	Weight Loss	hives ; difficult breathing; swelling of your	fenfluramine	Anorexiants, CNS stimulants, Miscellaneous ant	Fintepla	1%	Rx	C		2
2928	Fendique ER	Weight Loss	NaN	phendimetrazine tartrate	Anorexiants, CNS stimulants	NaN	0%	Rx	C		3
2929	Imcivree	Weight Loss	Imcivree may cause serious side effects, inclu	set mel a noti de	Melanocortin receptor agonists	NaN	0%	Rx	C	)	Ν
2930	setmelanotide	Weight Loss	hives ; difficult breathing; swelling of your	setmelanotide	Melanocortin receptor agonists	Imcivree	0%	Rx	C	)	Ν
2931 rows × 15 columns											
4										•	Þ

```
In [171...
print(f"Dimension of the dataset: {df.shape}\n")
cnt = 0
for i in df.columns:
    print(f"Mode in column {df.columns[cnt]}: {statistics.mode(df[df.columns[cnt]])}")
    cnt += 1
print("\n")
print(f"Data types of each column:\n{df.dtypes}\n")
```

```
Dimension of the dataset: (2931, 15)
         Mode in column drug_name: triamcinolone
         Mode in column medical condition: Pain
         Mode in column side_effects: nan
         Mode in column generic_name: nan
         {\tt Mode\ in\ column\ drug\_classes:\ Upper\ respiratory\ combinations}
         Mode in column brand_names: nan
         Mode in column activity: 0%
         Mode in column rx_otc: Rx
         Mode in column pregnancy_category: {\sf C}
         Mode in column csa: N
         Mode in column alcohol: 0
         Mode in column related_drugs: nan
         Mode in column medical_condition_description: Pain An unpleasant sensory and emotional experience associated with actual or potent
         ial tissue damage or described in terms of such damage.
         Mode in column rating: 10.0
         Mode in column no_of_reviews: 1.0
         Data types of each column:
                                          object
         drug_name
         medical_condition
                                          object
         side_effects
                                          object
         generic_name
                                          object
         drug_classes
                                          object
         brand_names
                                          object
         activity
                                          object
         rx_otc
                                          object
        pregnancy_category
                                          object
                                          object
         csa
         alcohol
                                          object
         related_drugs
                                          object
         medical_condition_description
                                          object
         rating
                                          float64
         no_of_reviews
                                         float64
        dtype: object
In [172... import seaborn as sns
          plt.figure(figsize=(10,12))
          \verb|sns.heatmap(df.isnull(),yticklabels=False,cbar=False,cmap='viridis')|\\
          df.isnull().sum()
Out[172... drug_name
                                              a
          medical_condition
                                              0
          side_effects
                                           124
          generic_name
                                             43
          drug_classes
                                             82
          brand_names
                                           1213
          activity
                                              0
          rx_otc
                                              1
          pregnancy_category
                                              0
          csa
                                              a
          alcohol
                                              0
          related_drugs
                                           1469
          medical_condition_description
          rating
                                           1345
          no_of_reviews
                                           1345
          dtype: int64
```



```
In [173...
unique_medical_conditions = list(df.medical_condition.unique())
unique_drugs = list(df.drug_name.unique())

print(f"List of unique Medical Conditions being discussed are:\n{unique_medical_conditions}\n\n")
print(f"List of unique drugs being discussed are:\n{unique_drugs}\n\n")

print(f"Number of unique drugs: {len(unique_drugs)}")
print(f"Total data rows: {df.shape[0]}")
```

List of unique Medical Conditions being discussed are:

['Acne', 'ADHD', 'AIDS/HIV', 'Allergies', "Alzheimer's", 'Angina', 'Anxiety', 'Asthma', 'Bipolar Disorder', 'Bronchitis', 'Cance RACHE, ADDD, ALDS/HIV, Allergies, Alzheimer's, Anglia anxiety, Astimma, Bipolar Disorder, Bronchitis, Cance r', 'Cholesterol', 'Colds & Flu', 'Constipation', 'COPD', 'Covid 19', 'Depression', 'Diabetes (Type 1)', 'Diabetes (Type 2)', 'Dia rrhea', 'Eczema', 'Frectile Dysfunction', 'Gastrointestinal', 'GERD (Heartburn)', 'Gout', 'Hair Loss', 'Hayfever', 'Herpes', 'Hype rtension', 'Hypothyroidism', 'IBD (Bowel)', 'Incontinence', 'Insomnia', 'Menopause', 'Migraine', 'Osteoarthritis', 'Osteoporosis', 'Pain', 'Pneumonia', 'Psoriasis', 'Rheumatoid Arthritis', 'Schizophrenia', 'Seizures', 'Stroke', 'Swine Flu', 'UTI', 'Weight Los

List of unique drugs being discussed are:

List of unique drugs being discussed are:
['doxycycline', 'spironolactone', 'minocycline', 'Accutane', 'clindamycin', 'Aldactone', 'tretinoin', 'isotretinoin', 'Bactrim',
'Retin-A', 'Aczone', 'benzoyl peroxide', 'Differin', 'Epiduo', 'adapalene', 'cephalexin', 'Doryx', 'tetracycline', 'Septra', 'Solo
dyn', 'Tazorac', 'Vibramycin', 'Acticlate', 'benzoyl peroxide / clindamycin', 'Doxy 100', 'Keflex', 'sulfamethoxazole / trimethopr
im', 'Benzaclin', 'Monodox', 'Targadox', 'Adoxa', 'Adoxa CK', 'Adoxa Pak', 'Adoxa TT', 'Avidoxy', 'Bactrim DS', 'Cleocin T', 'Clin
dagel', 'Doryx MPC', 'erythromycin', 'Morgidox', 'Oraxyl', 'Claravis', 'Clinda-Derm', 'Evoclin', 'Minocin', 'Yaz', 'adapalene / be
nzoyl peroxide', 'Clindacin ETZ', 'Clindacin P', 'Clindacin PAC', 'ClindaReach Pledget', 'Clindets', 'Milk of Magnesia', 'Septra D
S', 'Yasmin', 'Ziana', 'Absorica', 'Acanya', 'Amnesteem', 'azelaic acid', 'Co-trimoxazole', 'dapsone', 'Duac', 'Emcin Clear', 'Epi
duo Forte', 'Erygel', 'Ery Pads', 'Myorisan', 'Onexton', "Phillips' Milk of Magnesia", 'salicylic acid', 'Spotex', 'Theramycin Z',
'Absorica LD', 'Achromycin V', 'Acne Treatment', 'Acnex', 'Ala-Tet', 'Amzeeq', 'Atralin', 'Avita', 'Azelex', 'Benzamycin', 'benzoy

one / ethinyl estradiol', 'Dynacin', 'Estavylla', 'ethinyl estradiol', 'norgestimate', 'Gianyi', 'Loryga', 'magnesium bydroxide' one / ethinyl estradiol', 'Dynacin', 'Estarylla', 'ethinyl estradiol / norgestimate', 'Gianvi', 'Loryna', 'magnesium hydroxide', 'Minolira', 'Ocella', 'PanOxyl', 'PanOxyl 10% Acne Foaming Wash', 'Seysara', 'Sotret', 'sulfacetamide sodium/sulfur', 'tazaroten e', 'Tri-Previfem', 'Tri-Sprintec', 'Veltin', 'Ximino', 'Zenatane', 'Acetoxyl', 'Acne-10', 'Acne-Clear', 'Acnevir', 'Acnomel', 'Ac nomel Acne Mask', 'Acnomel BP 5', 'Aklief', 'Aktipak', 'Akurza', 'Aliclen', 'Alquam-X Acne Therapy Gel', 'Altabax', 'Altreno', 'Ar azlo', 'Avar-E', 'Avar-E Green', 'Avar-E LS', 'Avar Cleanser', 'Avar LS', 'Avar LS Cleanser', 'Benzac', 'Benzac AC', 'Benz ac AC Wash', 'Benzacel', 'Benzagel', 'Benzagel Wash', 'Benzamycin Pak', 'Benzashave', 'BenzEfoam Ultra', 'BenzePro', 'Benziq', 'be nzoyl peroxide / hydrocortisone', 'benzoyl peroxide / salicylic acid', 'benzoyl peroxide / tretinoin', 'Binora', 'BP 10-Wash', 'BP 0 6 Foaming Cloths', 'BPO Gel', 'BP Wash', 'Brevoxyl', 'Brevoxyl Acne Wash Kit', 'CeraVe SA Renewing', 'Clarifoam EF', 'clascotero ne', 'Cleanse & Treat', 'Cleanse & Treat Plus', 'Clearskin', 'Compound W', 'DermalZone', 'DHS Salicylic Acid 3%', 'drospirenone / ethinyl estradiol / levomefolate calcium', 'Dulcolax Milk of Magnesia', 'Durasal', 'Enzoclear Foam', 'ethinyl estradiol / norethin drone', 'Ex-Lax Milk of Magnesia', 'Fabior', 'Fostex', 'Fostex Medicated', 'Fostex Medicated Cleansing Cream', 'Fostex Wash 10%', 'Hydrisalic', 'Inova', 'Inova 4/1', 'Inova 8/2', 'Jasmiel', 'Liquimat Light', 'Liquimat Medium', 'Lo-Zumandimine', 'Meted', 'Mono-Linyah', 'Neuaro', 'Neutrogena Clear Pore Cleanser/Mask', 'Neutrogena Rapid Clear Stubborn Acne', 'Nikki', 'Oscion', 'Oxy-10', 'Oxy Linyah', 'Neuac', 'Neutrogena Clear Pore Cleanser/Mask', 'Neutrogena Rapid Clear Stubborn Acne', 'Nikki', 'Oscion', 'Oxy-10', 'Oxy Daily Wash', 'Pe & S', 'PanOxyl 4% Acne Creamy Wash', 'Pernox', 'Persa-Gel', 'Plexion', 'Propa pH Acne Med Cleansing', 'R A Acne', 'Resinol', 'resorcinol / sulfur', 'resorcinol', 'retapamulin', 'Riax', 'Sal-Plant Gel', 'Salactic Film', 'Salex', 'salicylic acid/ sulfur', 'Salvax', 'sarecycline', 'SAStid', 'Scalpicin Scalp Relief', 'Sebulex', 'SoluCLENZ Rx', 'SSS 10-4', 'SSS 10-5', 'SSS Clea nser', 'Stri-Dex', 'Stridex Body Focus', 'Stridex Maximum Strength', 'Sulfacleanse 8/4', 'Sulfoam', 'Sulfor', 'Sulpho-Lac Soap', 'Sumadan', 'Sumaxin', 'Suphera', 'Syeda', 'Tinamed Plantar', 'Tri-Estarylla', 'Tri-Linyah', 'Tri-Lo-Marzia', 'trifarotene', 'Twyne o', 'Vanoxide-HC', 'Winlevi', 'Z-Clinz 10', 'Zarah', 'Zumandimine', 'Vyvanse', 'Adderall', 'Adderall XR', 'Concerta', 'lisdexamfet amine', 'Daytrana', 'Quillivant XR', 'amantadine', 'Cotempla XR-ODT', 'Jornay PM', 'methylphenidate', 'QuilliChew ER', 'Azstarys', 'Qelbree', 'Strattera', 'Dexedrine', 'amphetamine', 'Ritalin', 'dextroamphetamine', 'bupropion', 'clonidine', 'Intuniv', 'Desoxyn', 'guanfacine', 'Focalin', 'atomoxetine', 'Focalin XR', 'amphetamine', 'Ritalin LA', 'Kapvay', 'Methylin', 'de xmethylohenidate', 'methamohetamine', 'modafinil'. 'Metadate CD', 'Methylin ER', 'omega-3 polyunsaturated fatty acids', 'ProCentr xmethylphenidate', 'methamphetamine', 'modafinil', 'Metadate CD', 'Methylin ER', 'omega-3 polyunsaturated fatty acids', 'ProCentr xmetnylphenidate, methamphetamine, modatinii, metadate cb, methylin ck, omega-s polyunsaturated racty acids, rocentral a', 'selegiline', 'Zenzedi', 'Adhansia XR', 'Aptensio XR', 'armodafinii', 'desvenlafaxine', 'Evekeo', 'Mydayis', 'Relexxii', 'Adze nys ER', 'Adzenys XR-ODT', 'desipramine', 'Dyanavel XR', 'Evekeo ODT', 'imipramine', 'dexmethylphenidate / serdexmethylphenidate', 'viloxazine', 'Truvada', 'Biktarvy', 'Triumeq', 'Genvoya', 'Stribild', 'Atripla', 'Descovy', 'Norvir', 'Isentress', 'Dovato', 'Tiv icay', 'abacavir / dolutegravir / lamivudine', 'Prezista', 'bictegravir / emtricitabine / tenofovir alafenamide', 'cobicistat / el vitegravir / emtricitabine / tenofovir', 'Cabenuva', 'dolutegravir / lamivudine', 'emtricitabine / tenofovir alafenamide', 'Comple ra', 'Reyataz', 'Epzicom', 'ritonavir', 'lamivudine', 'tenofovir', 'Viread', 'dolutegravir', 'Kaletra', 'Epivir', 'Intelence', 'Su stiva', 'abacavir', 'efavirenz / emtricitabine / tenofovir', 'emtricitabine / tenofovir', 'darunavir', 'efavirenz', 'Odefsey', 'ra ltegravir', 'abacavir / lamivudine', 'Prezcobix', 'Viramune', 'Combivir', 'Ziagen', 'zidovudine', 'atazanavir', 'emtricitabine', 'Emtriva', 'Edurant', 'Lexiva', 'nevirapine', 'Retrovir', 'Selzentry', 'Juluca', 'Symtuza', 'Trizivir', 'Epivir-HBV', 'etravirin' e', 'Isentress HD', 'lamivudine / tenofovir', 'lopinavir / ritonavir', 'maraviroc', 'Tivicay PD', 'Viramune XR', 'AccessPak for HI V PEP Basic', 'Delstrigo', 'efavirenz / lamivudine / tenofovir', 'emtricitabine / rilpivirine / tenofovir', 'Evotaz', 'Fuzeon', 'l amivudine / zidovudine', 'Pifeltro', 'Viracept', 'abacavir / lamivudine / zidovudine', 'Aptivus', 'Cimduo', 'cobicistat / darunavi r', 'cobicistat / elvitegravir / emtricitabine / tenofovir alafenamide', 'cobicistat', 'doravirine', 'elvitegravir', 'enfuvirtid e', 'ibalizumab', 'immune globulin intravenous', 'Invirase', 'nelfinavir', 'rilpivirine', 'Rukobia', 'saquinavir', 'Symfi', 'Symfi Lo', 'Temixys', 'Trogarzo', 'Tybost', 'AccessPak for HIV PEP Expanded with Kaletra', 'AccessPak for HIV PEP Expanded with Viracep 'cabotegravir / rilpivirine', 'cabotegravir', 'cobicistat / darunavir / emtricitabine / tenofovir a 'atazanavir / cobicistat', lafenamide', 'dolutegravir / rilpivirine', 'doravirine / lamivudine / tenofovir', 'emtricitabine / lopinavir / ritonavir / tenofov ir', 'emtricitabine / nelfinavir / tenofovir', 'emtricitabine / rilpivirine / tenofovir alafenamide', 'fosamprenavir', 'fostemsavi r', 'lamivudine / nevirapine / zidovudine', 'tipranavir', 'Triumeq PD', 'Vocabria', 'hydroxyzine', 'levocetirizine', 'loratadine', 'Xyzal', 'doxylamine', 'corticotropin', 'Acthar', 'chlorpheniramine / ibuprofen / phenylephrine', 'dexbrompheniramine', 'Ala-Hist IR', 'dexbrompheniramine / phenylephrine', 'Equaline Sleep Aid', 'Equate Sleep Aid', 'H.P. Acthar Gel', 'Aricept', 'donepezil', 'N amenda', 'memantine', 'etanercept', 'Exelon', 'galantamine', 'Namenda XR', 'rivastigmine', 'Aricept ODT', 'Namzaric', 'vitamin e', 'donepezil / memantine', 'Razadyne', 'Razadyne ER', 'Adlarity', 'Hydergine', 'Alpha E', 'ergoloid mesylates', 'Aduhelm', 'Aqua Gem -E', 'Aquasol E', 'E-400 Clear', 'E-600', 'E-6ems', 'E Pherol', 'aducanumab', 'aspirin', 'nitroglycerin', 'Ranexa', 'metoprolol', 'isosorbide mononitrate', 'amlodipine', 'Nitrostat', 'ranolazine', 'enoxaparin', 'isosorbide dinitrate', 'atenolol', 'carvedilol', 'orvasc', 'Lopressor', 'Bayer Aspirin', 'Coreg', 'Toprol-XL', 'amlodipine / atorvastatin', 'Ecotrin', 'propranolol', 'Easprin', 'Nitrolingual Pumpspray', 'verapamil', 'Bayer Aspirin Regimen', 'Caduet', 'Aspir-Low', 'Katerzia', 'Lovenox', 'Norliqva', 'Arthrit is Pain', 'Ascriptin', 'Aspergum', 'Aspiritab', 'Aspirtab', 'Bayer Aspirin Extra Strength Plus', 'Ecpirin', 'Entercote', 'Genacot e', 'Halfprin', 'Nitro-Dur', 'Norwich Aspirin', 'Tenormin', 'Vazalore', 'Coreg CR', 'Corgard', 'heparin', 'Inderal LA', 'Kapspargo Sprinkle', 'Nitro-Bid', 'Fragmin', 'nadolol', 'Nitro TD Patch-A', 'amyl nitrite', 'Angiomax', 'bivalirudin', 'Calan SR', 'daltepar in', 'Dilatrate-SR', 'eptifibatide', 'GoNitro', 'Integrilin', 'Isochron', 'IsoDitrate', 'Isodil Titradose', 'Minitran', 'Nitro-Ti me', 'NitroMist', 'timolol', 'Verelan', 'Verelan PM', 'Aspruzyo Sprinkle', 'Xanax', 'clonazepam', 'alprazolam', 'lorazepam', 'busp 'rone', 'diazepam', 'Ativan', 'Lexapro', 'BuSpar', 'escitalopram', 'Valium', 'gabapentin', 'Cymbalta', 'Effexor XR', 'trazodone', 'Tranxene', 'Chazepam Intensol', 'clorazepate', 'doxepin', 'oxazepam', 'Paxil CR', 'amitriptyline / perphenazine', 'chlordiaz epoxide', 'Diazepam Intensol', 'Loreev XR', 'oxcarbazepine', 'Pexeva', 'phenytoin', 'prochlorperazine', 'amitriptyline / chlordiaz IR', 'dexbrompheniramine / phenylephrine', 'Equaline Sleep Aid', 'Equate Sleep Aid', 'H.P. Acthar Gel', 'Aricept', 'donepezil', 'N epoxide', 'Diazepam Intensol', 'Loreev XR', 'oxcarbazepine', 'Pexeva', 'phenytoin', 'prochlorperazine', 'amitriptyline / chlordiaz epoxide', 'Compro', 'meprobamate', 'nefazodone', 'Tranxene T-Tab', 'trifluoperazine', 'vilazodone', 'Singulair', 'montelukast', 'p rednisone', 'Trelegy Ellipta', 'Fasenra', 'Nucala', 'benralizumab', 'fluticasone / umeclidinium / vilanterol', 'mepolizumab', 'tez epelumab', 'Tezspire', 'Dulera', 'Atrovent', 'Breo Ellipta', 'ipratropium', 'methylprednisolone', 'Atrovent HFA', 'dexamethasone', epelumab', 'Tezspire', 'Dulera', 'Atrovent', 'Breo Ellipta', 'ipratropium', 'methylprednisolone', 'Atrovent HFA', 'dexamethasone', 'Alvesco', 'levalbuterol', 'Ipratropium Inhalation Solution', 'Rayos', 'fluticasone / vilanterol', 'formoterol / mometasone', 'Med rol', 'MethylPREDNISolone Dose Pack', 'triamcinolone', 'Dexamethasone Intensol', 'Kenalog-40', 'Medrol Dosepak', 'Depo-Medrol', 'Solu-Medrol', 'Xopenex', 'Xopenex HFA', 'caffeine', 'ciclesonide', 'De-Sone LA', 'Dxevo', 'dyphylline / guaifenesin', 'Ipratropium Inhalation Aerosol', 'Cinqair', 'reslizumab', 'salbutamol', 'Xopenex Concentrate', 'Difil-G Forte', 'Lamictal', 'Latuda', 'Seroque l', 'Abilify', 'topiramate', 'Vraylar', 'lithium', 'lurasidone', 'Abilify Maintena', 'cariprazine', 'Caplyta', 'lumateperone', 'Ly balvi', 'quetiapine', 'Depakote', 'Seroquel XR', 'divalproex sodium', 'Risperdal', 'Geodon', 'sertraline', 'Zyprexa', 'aripirazol e', 'Depakote ER', 'olanzapine', 'Saphris', 'citalopram', 'carbamazepine', 'ziprasidone', 'Symbyax', 'valproic acid', 'fluoxetine / olanzapine', 'Lamictal ODT', 'levetiracetam', 'Lithobid', 'Zyprexa Zydis', 'asenapine', 'Equetro', 'iloperidone', 'Lamictal CD',

```
'paliperidone', 'perphenazine', 'Risperdal Consta', 'tiagabine', 'Abilify MyCite', 'Depakote Sprinkles', 'Zyprexa Intramuscular', 'olanzapine / samidorphan', 'Mucinex', 'azithromycin', 'Azithromycin Dose Pack', 'amoxicillin', 'guaifenesin', 'levofloxacin', 'Au gmentin', 'Levaquin', 'Zithromax', 'amoxicillin / clavulanate', 'clarithromycin', 'cefdinir', 'ciprofloxacin', 'Amoxil', 'cefuroxi me', 'Avelox', 'Cipro', 'Ceftin', 'ceftriaxone', 'Apo-Amoxi', 'beclomethasone', 'moxifloxacin', 'cefixime', 'Mucinex Maximum Stren
me', 'Avelox', 'Cipro', 'Ceftin', 'ceftriaxone', 'Apo-Amoxi', 'beclomethasone', 'moxifloxacin', 'cefixime', 'Mucinex Maximum Stren gth', 'Cipro I.V.', 'Cipro XR', 'Robafen', 'Augmentin XR', 'Biaxin XL', 'cefpodoxime', 'cefprozil', 'Ery-Tab', 'Guaifenex G', 'Sup rax', 'Altarussin', 'Amibid LA', 'Amoclan', 'ampicillin', 'Balminil Expectorant', 'Benylin E', 'Bidex-400', 'Cefzil', 'dicloxacill in', 'Drituss G', 'E.E.S. Granules', 'Eryc', 'EryPed', 'Erythrocin', 'Erythrocin Lactobionate', 'Fenesin IR', 'Floxin', 'gemifloxa cin', 'Guaifenex LA', 'Guiatuss', 'Hytuss', 'Mucinex for Kids', 'ofloxacin', 'PCE Dispertab', 'Scot-Tussin Expectorant', 'Sulfatri m Pediatric', 'Tussin Expectorant', 'Xpect', 'Zinacef', 'Avelox I.V.', 'cefaclor', 'cilastatin / imipenem', 'Dycill', 'Dynapen', 'Factive', 'Primaxin IV', 'carboplatin', 'Leukeran', 'chlorambucil', 'fluorouracil', 'doxorubicin', 'etoposide', 'cyclophosphamid e', 'vincristine', 'Cosmegen', 'Etopophos', 'Ifex', 'Toposar', 'vinblastine', 'Hycamtin', 'ifosfamide', 'dactinomycin', 'fludarabi ne', 'Tepadina', 'thiotepa', 'topotecan', 'atorvastatin', 'simvastatin', 'Lipitor', 'Zetia', 'ezetimibe', 'Crestor', 'Repatha', 'a lirocumab', 'evolocumab', 'Praluent', 'rosuvastatin', 'pravastatin', 'lovastatin', 'Zocor', 'gemfibrozil', 'Vytorin', 'Livalo', 'n iacin', 'Altocor', 'Niaspan', 'Welchol', 'Altoprev', 'ezetimibe / simvastatin', 'fenofibric acid', 'Slo-Niacin', 'colesevelam', 'E zallor', 'Flolipid', 'Iopid', 'pitavastatin', 'atorvastatin', 'fuvastatin', 'Isustatin', 'Lescol XL', 'mycophenolate mofetil', 'Ni
zallor', 'FloLipid', 'Lopid', 'pitavastatin', 'atorvastatin', 'ezetimibe', 'fluvastatin', 'Lescol XL', 'mycophenolate mofetil', 'Ni acor', 'Trilipix', 'ezetimibe / rosuvastatin', 'fibricor', 'inclisiran', 'Juxtapid', 'Leqvio', 'lomitapide', 'Lypqozet', 'Roszet', 'Zypitamag', 'Benadryl', 'diphenhydramine', 'Vicks Nyquil D Cold and Flu Nighttime Relief', 'Vicks Nyquil Cold & Flu Nighttime Relief', 'chlorpheniramine', 'Coricidin HBP Cold & Flu', 'Vicks DayQuil Severe Cold & Flu', 'Benadryl Allergy', 'Vicks Dayquil Cold &
 Flu Relief', 'Vicks NyQuil Severe Cold & Flu', 'Promethazine DM', 'Tylenol Cold & Flu Severe', 'Vicks VapoRub', 'Coricidin HBP Max
 imum Strength Flu', 'Theraflu Nighttime Severe Cold & Cough', 'acetaminophen / chlorpheniramine / phenylephrine', 'Sudafed PE Cold
& Cough', 'Banophen', 'Benadryl Allergy Plus Cold', 'pseudoephedrine / triprolidine', 'Tussionex Pennkinetic', 'Chlor-Trimeton', 'Diphedryl', 'Diphen', 'Complete Allergy Relief', 'Tylenol Cold', 'Allermax', 'Bronkaid', 'Dicopanol', 'Dytuss', 'Mucinex Fast-Max Night Time Cold & Flu', 'Scot-Tussin Allergy', 'Siladryl Allergy', 'Sudafed PE Sinus & Allergy', 'Twilite', 'Tylenol Cold Multi-Sy
 mptom Severe', 'Valu-Dryl', 'Vanamine PD', 'Virtussin DAC', 'Benadryl Allergy Plus Sinus Headache', 'Primatene', 'acetaminophen /
dextromethorphan / doxylamine / pseudoephedrine', 'acetaminophen / dextromethorphan / guaifenesin / phenylephrine', 'acetaminophen / dextromethorphan / phenylephrine', 'Aller-Chlor', 'Allergy Relief', 'brompheniramine', 'Mucinex Fast-Max Severe Cold', 'Mucinex Fast-Max Severe Congestion & Cold', 'Sudafed PE Pressure+Pain+Cold', 'Sudafed PE Severe Cold', 'Tylenol Cold Max Day', 'Vicks NyQu
 il Cold & Flu Nighttime Relief (Alcohol Free)', 'Wal-finate', 'acetaminophen / chlorpheniramine / dextromethorphan / pseudoephedri
 ne', 'acetaminophen / chlorpheniramine', 'Actifed Cold and Allergy', 'Advil Allergy Sinus', 'Alka-Seltzer Plus Cold Formula Sparkl
 ing Original Effervescent Tablets', 'Aprodine', 'aspirin / chlorpheniramine / phenylephrine', 'C.P.M.', 'camphor / eucalyptus / me
nthol', 'Cheratussin DAC', 'Chlo-Amine', 'Chlor-Mal', 'chlorpheniramine / hydrocodone', 'chlorpheniramine / phenylephrine', 'Chlor
                 codeine / guaifenesin / pseudoephedrine', 'Coricidin HBP Nighttime Multi-Symptom Cold', 'dextromethorphan / promethazine',
 'diphenhydramine / phenylephrine', 'Drixoral Cold and Allergy', 'Ed-Chlortan', 'Ed A-Hist', 'Ed ChlorPed', 'Ed Chlor Ped Jr.',
 hedrine / guaifenesin', 'Robitussin Peak Cold Nighttime Nasal Relief', 'Theraflu Daytime Severe Cold & Cough', 'TussiCaps', 'Tylen
ol Cold Multi-Symptom Nighttime', 'A-Phedrin', 'acetaminophen / chlorpheniramine / dextromethorphan / phenylephrine', 'acetaminoph
 en / dextromethorphan / doxylamine / phenylephrine', 'acetaminophen / dextromethorphan / doxylamine', 'acetaminophen / dextrometho
 rphan / guaifenesin / pseudoephedrine', 'acetaminophen / dextromethorphan / pseudoephedrine', 'acetaminophen / diphenhydramine / p
 henylephrine', 'acetaminophen / pheninamine / phenylephrine', 'Advil Congestion Relief', 'Advil Sinus Congestion & Pain', 'Ala-His
t PE', 'Alka-Seltzer Plus-D Multi-Symptom Sinus & Cold Liquid Gels', 'Allergy Multi-Symptom', 'Biotussin DAC', 'Bromatan Plus', 'B romax', 'camphor', 'Capron DM', "Children's Triacting Night Time", 'Childrens Tylenol Cold Plus Cough', 'Chlo Hist', 'chlophediano l / pyrilamine', 'chlorpheniramine / pseudoephedrine', 'chlorpheniramine / phenylephrine / pyrilamine', 'Cold Multi-Sy
 mptom (Nighttime)', 'Comtrex Cold and Cough Maximum Strength', 'Comtrex Cold and Flu Maximum Strength Tablet', 'Contac Cold + Flu
 (Night Formula)', 'Delsym Cough+ Cold Day Time', 'Delsym Cough+ Cold Night Time', 'Deltuss DMX', 'dexbrompheniramine / pseudoephed
rine', 'dextromethorphan / phenylephrine', pyrilamine', 'dextromethorphan / phenylephrine / triprolidine', 'Diabetic Tussin Night Time Formula', 'Dologen', 'doxylamine / phenylephrine', 'Dristan Cold Multi Symptom Formula', 'Flutabs', 'ibuprofen / phenylephrin
e', "Mucinex Children's Cold, Cough & Sore Throat", 'Ninjacof', 'Norel AD', 'phenylephrine / promethazine', 'Poly-Tussin AC', 'Poly Hist Forte', 'Robitussin Peak Cold Nighttime Cold + Flu', 'Ru-Hist Forte', 'Sinus & Allergy PE', 'Sudafed PE Head Congestion + P
 ain', 'Sudafed PE Pressure+Pain+Cough', 'Theraflu Flu & Sore Throat', 'Theraflu Nighttime Severe Cold & Cough Caplets', 'Theraflu Sinus & Cold', 'Theraflu Warming Relief Daytime Severe Cold & Cough', 'Theraflu Warming Relief Nighttime Severe Cold & Cough', 'Theraflu Warming Nighttime Severe Cold & Cough', 'Theraflu War
 iaminic Multi-Symptom Fever', 'Tylenol Children's Cold + Cough + Runny Nose', 'Tylenol Children's Cold + Flu', 'Tylenol Cold & Cou
 gh Nighttime', 'Tylenol Cold Multi-Symptom Nighttime Liquid', "Tylenol Plus Children's Cold", 'Tylenol Sinus Congestion & Pain Nig
 httime', 'Vicks VapoSteam', 'Abatuss DMX', 'acetaminophen / caffeine', 'acetaminophen / chlorpheniramine / dextromethorphan / guai
                      , 'acetaminophen / chlorpheniramine / dextromethorphan', 'acetaminophen / dexbrompheniramine', 'acetaminophen / dextrometh
 orphan / diphenhydramine', 'acetaminophen / dextromethorphan / triprolidine', 'acetaminophen / dextromethorphan', "Advil Childre n's Allergy Sinus", 'Alahist D', 'Allan Tannate Pediatric', 'Allerest PE', 'Allerfrim', 'Ambifed CD', 'Aphedrid', 'Avedana Medicat
 ed Chest Rub', 'Benadryl Allergy Plus Congestion', 'BP Allergy JR', 'brompheniramine / codeine / phenylephrine', 'C-Tanna 12', 'ca
 mphor / menthol', 'Capron DMT', 'carbetapentane / chlorpheninamine', "Children's Triacting", 'chlophedianol / dexbrompheninamine', 'chlophedianol / dexchlorpheninamine / pseudoephedrine', 'chlorcyclizine / phenylephrine', 'Chlorex-A 12', 'Chlorex A', 'chlorphen
iramine / codeine / pseudoephedrine', 'chlorpheniramine / codeine', 'chlorpheniramine / phenylephrine / phenylephrine / chlorpheniramine / codeine / phenylephrine / phenylephrine / phenylephrine / codeine / codeine / codeine / phenylephrine / triprolidine', 'Codimal DM', 'Coditussin DAC', 'Comtrex Cold & Cough', 'Comtrex Nighttime Cold & Cough', 'Comtrex Severe Cold & Sinus', 'Conal', 'Conet', 'Contac Cold + Flu (Night) Cooling Relief Liquid', 'Dallergy', 'Dallergy Drops', 'Decorel Forte Plus', 'Delsym Cough & Sore Throat', 'Delsym Night Time Multi-
 Symptom', 'dexchlorpheniramine / dextromethorphan / pseudoephedrine', 'dextromethorphan / diphenhydramine / phenylephrine', 'dextr
 omethorphan / pyrilamine', 'Dixaphedrine', 'Duraflu', 'Dytan-D', 'Dytan-DM', 'Ed ChlorPed D', 'Excedrin Quick Tab', 'Excedrin Tens
ion Headache', 'Fast Freeze', 'Flu & Severe Cold & Cough Daytime Powder', 'Freeze It', 'GNP Cold Relief Plus', 'Gusten DAC', 'His tafed', 'Histex-AC', 'Histex-DM', 'Histex-PE', 'Lortuss EX', 'M-End PE', 'Medicidin-D', 'Mucinex Nightshift Cold & Flu', 'Nalex-A', 'Nalex A 12', 'NoHist LQ', 'Novahistine', 'Onset Forte', 'Panatuss PED', 'Phena-Plus', 'Phenagil', 'pheniramine / phenylephrin e', 'phenylephrine / triprolidine', 'Robitussin Peak Cold Daytime Cold + Flu', 'SuTan-DM', 'Tannic-12 S', 'Theracaps Multi-Symptom Cough & Cold Reliever', 'Triaminic Softchews Cough & Sore Throat', 'Tricode GF', 'Tusnel C', 'Tuzistra XR', 'Tylenol Allergy Multi
 -Symptom', 'Tylenol Children's Cold + Cough + Sore Throat', 'Tylenol Cough & Sore Throat Nightime', 'Tylenol Cough and Sore Throat
 -Symptom, Tylenol Children's Colu + Cough + Sofe Thirdat, Tylenol Cough & Cold PM', 'Zodryl DAC', 'docusate', 'MiraLAX', 'Colace', 'Du lcolax', 'bisacodyl', 'polyethylene glycol 3350', 'Dulcolax Stool Softener', 'magnesium oxide', 'magnesium citrate', 'Metamucil', 'Citrucel', 'Doc-Q-Lace', 'FiberCon', 'DOK', 'Fleet Enema', 'GlycoLax', 'psyllium', 'Surfak', 'Enemeez Mini', 'Bisa-Lax', 'ClearLa x', 'Colace Micro-Enema', 'Correctol', 'Diocto', 'Fleet Bisacodyl', "Phillips' Cramp-free", 'Citrate of Magnesia', 'GaviLAX', 'Gia
x', 'Colace Micro-Enema', 'Correctol', 'Diocto', 'Fleet Bisacodyl', "Phillips' Cramp-free", 'Citrate of Magnesia', 'GaviLAX', 'Gia lax', 'Mag-Oxide', 'PEG3350', 'Purelax', 'SunMark ClearLax', 'Uro-Mag', 'Citroma', 'glycerin', 'Hydrocil', 'Konsyl', 'methylcellul ose', 'Reguloid', 'sodium biphosphate / sodium phosphate', 'Disposable Enema', 'Equalactin', 'Fiber Lax', 'Fiber Laxative', 'Fleet Glycerin Suppositories Adult', 'Fleet Phospho Soda', 'mineral oil', 'Natural Fiber Therapy', 'OsmoPrep', 'Pedia-Lax Chewable Table ts', 'Pedia-Lax Liquid Glycerin Suppositories', 'polycarbophil', 'Sani-Supp', 'sorbitol', 'benzocaine / docusate', 'castor oil', 'Fibertab', 'Fleet Glycerin Suppositories Pediatric', 'potassium phosphate', 'Symbicort', 'Breztri Aerosphere', 'Anoro Ellipta', 'Daliresp', 'budesonide / formoterol', 'Tudorza Pressair', 'Incruse Ellipta', 'Stiolto Respimat', 'aclidinium', 'roflumilast', 'um eclidinium / vilanterol', 'Bevespi Aerosphere', 'olodaterol / tiotropium', 'Striverdi Respimat', 'olodaterol', 'revefenacin', 'ume clidinium', 'Yupelri', 'aclidinium / formoterol', 'Breyna', 'budesonide / formoterol / glycopyrrolate', 'Duaklir Pressair', 'formoterol / glycopyrrolate', 'ivermesivir', 'Pfizer-RioNTech (OVID-19 Vaccine', 'Paylovid', 'Actema', 'tacilizumah', 'an
terol / glycopyrrolate', 'ivermectin', 'remdesivir', 'Pfizer-BioNTech COVID-19 Vaccine', 'Paxlovid', 'Actemra', 'tocilizumab', 'an akinra', 'Kineret', 'Moderna COVID-19 Vaccine', 'Olumiant', 'Veklury', 'molnupiravir', 'REGEN-COV', 'sotrovimab', 'bamlanivimab /
 etesevimab', 'Lagevrio', 'sars-cov-2 (covid-19) ad26 vaccine, recombinant', 'sars-cov-2 mrna (tozinameran) vaccine', 'bamlanivimab
 and etesevimab', 'baricitinib', 'bebtelovimab', 'Comirnaty', 'nirmatrelvir / ritonavir', 'sars-cov-2 (covid-19) mrna-1273 vaccin
 e', 'Pfizer-BioNTech COVID-19 (5y-11y) Bivalent Booster Vaccine PF', 'Pfizer-BioNTech COVID-19 (12y+) Bivalent Booster Vaccine P
        , 'sars-cov-2 (covid-19) mrna (tozinameran 5y-11y) bivalent booster vaccine', 'sars-cov-2 (covid-19) mrna (tozinameran 12y+) biv
 alent booster vaccine', 'sars-cov-2 (covid-19) mrna-1273 (bivalent booster) vaccine', 'sars-cov-2 (covid-19) nvx-cov2373 vaccine,
 recombinant', 'sars-cov-2 mrna (tozinameran 6m-4y) vaccine', 'sars-cov-2 mrna-1273 (6m-5y) vaccine', 'sars-cov-2 mrna-1273 (booste
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r only) vaccine', 'Spikevax', 'Zoloft', 'Prozac', 'fluoxetine', 'Wellbutrin XL', 'Celexa', 'Trintellix', 'Rexulti', 'vortioxetin
r only) vaccine', 'Spikevax', 'Zoloft', 'Prozac', 'fluoxetine', 'Wellbutrin XL', 'Celexa', 'Trintellix', 'Rexulti', 'vortioxetin e', 'brexpiprazole', 'Pristiq', 'Effexor', 'Remeron', 'Wellbutrin SR', 'amitriptyline', 'Viibryd', 'Deplin', 'nortriptyline', 'Des yrel', 'Forfivo XL', 'Budeprion SR', 'Aplenzin', 'Desyrel Dividose', 'Fetzima', 'Irenka', 'fluvoxamine', 'I-methylfolate', 'Parnat e', 'Remeron SolTab', 'amoxapine', 'Aventyl Hydrochloride', 'clomipramine', 'Emsam', 'ketamine', 'Nardil', 'Norpramin', 'Phenelzine', 'tranylcypromine', 'isocarboxazid', 'levomilnacipran', 'Marplan', 'Tofranil', 'trimipramine', 'Vivactil', 'XaQuil X R', 'esketamine', 'L-Methylfolate Forte', 'protriptyline', 'Spravato', 'Surmontil', 'thyroid desiccated', 'Humalog', 'Lantus', 'No volog', 'insulin lispro', 'insulin aspart', 'Lantus SoloStar', 'Lyumjev', 'insulin detemir', 'Levemir', 'insulin aspart/insulin aspart protamine', 'Humalog KwikPen', 'Novolog FlexPen', 'Apidra', 'insulin glargine', 'Basaglar', 'Tresiba', 'Toujeo SoloStar', 'Hu mulin N', 'Humalog KwikPen', 'Novolin R', 'Symlin', 'Humulin 70/30', 'insulin regular', 'Novolin N', 'Admelog', 'Fiasp', 'Novolin 70/30', 'Humalog Mix 75/25', 'insulin glulisine', 'Rezvoglar', 'Semglee', 'Toujeo Max SoloStar', 'Humulin 8U-500 (Concentrat ed)', 'Novol og Mix 70/30', 'Insulin isophane', 'Insulin Insulin 'Insulin 'Insulin 'Insulin 'Insulin 'Insulin 'Insulin 'Insulin 'Insulin '
  ed)', 'Novolog Mix 70/30', 'Novolog PenFill', 'octreotide', 'pramlintide', 'insulin inhalation, rapid acting', 'insulin isophane', 'Novolog Mix 70/30 FlexPen', 'Humulin N Pen', 'Humulin R U-500 KwikPen', 'insulin degludec', 'insulin isophane / insulin regular',
   'Myxredlin', 'Humalog Mix 50/50', 'Humalog Mix 75/25 KwikPen', 'insulin lispro/insulin lispro protamine', 'Symlin Pen', 'SymlinPen
  60', 'SymlinPen 120', 'Humalog Mix 50/50 KwikPen', 'Humulin 50/50', 'Humulin 70/30 Pen', 'ReliOn/Novolin 70/30', 'Tzield', 'metfor
min', 'Farxiga', 'Trulicity', 'Rybelsus', 'dapagliflozin', 'dulaglutide', 'semaglutide', 'Soliqua', 'insulin glargine / lixisenati de', 'Januvia', 'Mounjaro', 'Victoza', 'glipizide', 'glimepiride', 'Amaryl', 'Invokana', 'Actos', 'Jardiance', 'Janumet', 'Glucotr ol', 'Byetta', 'Ozempic', 'Glumetza', 'liraglutide', 'pioglitazone', 'Tradjenta', 'Bydureon', 'sitagliptin', 'glyburide', 'metform in / sitagliptin', 'Onglyza', 'Riomet', 'GlipiZIDE XL', 'Prandin', 'canagliflozin', 'chromium picolinate', 'empagliflozin', 'exena
Tide', 'repaglinide', 'acarbose', 'alogliptin', 'Avandia', 'glimepiride / pioglitazone', 'Glucotrol XL', 'glyburide / metformin', 'Kombiglyze XR', 'linagliptin', 'Xigduo XR', 'Adlyxin', 'bromocriptine', 'Cycloset', 'dapagliflozin / metformin', 'DiaBeta', 'empa gliflozin / metformin', 'glipizide / metformin', 'Glucovance', 'Glycron', 'Glynase', 'Glyset', 'Janumet XR', 'Jentadueto', 'lixise natide', 'metformin / pioglitazone', 'metformin / saxagliptin', 'miglitol', 'Nesina', 'saxagliptin', 'Synjardy', 'Xultophy', 'Acto Plus Met', 'albiglutide', 'alogliptin / metformin', 'alogliptin / pioglitazone', 'Bydureon BCise', 'canagliflozin / metformin', 'C
  r-GTF', 'CRM', 'dapagliflozin / saxagliptin', 'Duetact', 'empagliflozin / linagliptin / metformin', 'empagliflozin / linagliptin',
 'ertugliflozin / metformin', 'ertugliflozin / sitagliptin', 'ertugliflozin', 'Glynase PresTab', 'Glynambi', 'insulin degludec / li raglutide', 'Invokamet', 'Invokamet XR', 'Jentadueto XR', 'Kazano', 'linagliptin / metformin', 'nateglinide', 'Oseni', 'Qtern', 'r osiglitazone', 'Segluromet', 'Starlix', 'Steglatro', 'Steglujan', 'Synjardy XR', 'Tanzeum', 'tirzepatide', 'Trijardy XR', 'loperam
  ide', 'Lomotil', 'Imodium',
                                                                                                        'atropine / diphenoxylate', 'Imodium A-D', 'Anti-Diarrheal', 'Pepto-Bismol', 'Florastor', 'codeine',
   'bismuth subsalicylate', 'Diamode', 'Kaopectate', 'rifaximin', 'Up and Up Anti-Diarrheal Solution', 'neomycin', 'saccharomyces bou
  lardii lyo', 'Bismatrol', 'opium', 'Bismarex', 'Bismatrol Maximum Strength', 'crofelemer', 'Florastor Kids', 'Mytesi', 'Pedialyt
e', 'Peptic Relief', 'Pink Bismuth', 'Saccharomyces Boulardii+MOS', 'Soothe Caplets', 'atropine / difenoxin', 'Ceralyte', 'electro lyte replacement solutions', 'Enfalyte', 'Equalyte', 'Medi-Lyte', 'Motofen', 'Oralyte', 'Rehydralyte', 'ReVital', 'mometasone', 'D upixent', 'hydrocortisone', 'methotrexate', 'clobetasol', 'dupilumab', 'Elidel', 'fluocinonide', 'desonide', 'Elocon', 'desoximeta
sone', 'pimecrolimus', 'Cortizone-10', 'halobetasol', 'Kenalog', 'Topicort', 'fluocinolone', 'fluticasone', 'alclometasone', 'azat hioprine', 'Cloderm', 'Cutivate', 'cyclosporine', 'DermOtic Oil', 'Locoid Lipocream', 'Aristocort A', 'Aristocort R', 'Beser', 'Be ta HC', 'Cinolar', 'Cordran Tape', 'DermacinRx Trizapak', 'Dermasorb TA', 'DesOwen', 'flurandrenolide', 'Halog', 'HiDex', 'Juuliss a Pharmapak', 'Locoid', 'Oralone', 'SilaLite Pak', 'Treziopak', 'Trianex', 'Triderm', 'Tritocin', 'Ultravate', 'Ala-Cort', 'Ala-Scalp', 'Ala-Scalp HP', 'amcinonide', 'ApexiCon E', 'Aquanil HC', 'Aquax-H', 'Caldecort', 'Cliquinol / hydrocortisone', 'Clobex',
   'clocortolone', 'Cordran', 'Cortizone-5', 'Derma-Smoothe / FS (Scalp)', 'Dermarest Plus Anti-Itch', 'Dermovate', 'Dermtex HC', 'De
 sonate', 'Fluocinonide-E', 'hydrocortisone / iodoquinol', 'Itch-X Lotion', 'NuCort', 'Pandel', 'Prudoxin', 'Sarnol-HC', 'Temovat e', 'Texacort', 'U-Cort', 'Vanos', 'Verdeso', 'Zonalon', 'Ala-Quin', 'Alcortin A', 'aloe polysaccharides / iodoquinol', 'aloe vera
e', 'Texacort', 'U-Cort', 'Vanos', 'Verdeso', 'Zonalon', 'Ala-Quin', 'Alcortin A', 'aloe polysaccharides / lodoquinol', aloe vera / hydrocortisone / iodoquinol', 'Aloquin', 'ammonium lactate / halobetasol', 'ammonium lactate/urea', 'Apexicon', 'Capex', 'Carb-O-Lac HP', 'Clobevate', 'Clodan', 'Cordan SP', 'Cormax Scalp', 'Corti-Sav', 'Cyclocort', 'Derma-Smoothe / FS', 'Derma-Smoothe / FS (Body Oil)', 'Dermatop', 'Dermazene', 'DesRx', 'diflorasone', 'Embeline', 'Embeline E', 'Flac', 'halcinon ide', 'Halonate', 'Kerasal Ultra 20', 'LoKara', 'Nolix', 'Olux', 'Olux-E', 'prednicarbate', 'Quinja', 'Synalar', 'Synalar Ointmen t', 'Tovet', 'Ultralytic', 'Ultralytic 2', 'Vytone', 'Cialis', 'sildenafil', 'Viagra', 'tadalafil', 'Caverject Impulse', 'Staxyn', 'vardenafil', 'alprostadil', 'Edex', 'Stendra', 'Caverject', 'Muse', 'avanafil', 'Entereg', 'Lidocaine Viscous', 'alvimopan', 'lid ocaine', 'Glydo', 'Xylocaine Jelly', 'LTA II Kit', 'omeprazole', 'pantoprazole', 'Nexium', 'famotidine', 'Protonix', 'Prilosec', 'Dovilont', 'Caverject', 'Nasonaparazole', 'Prevacid', 'Prevacid', 'raheprazole', 'sucralfate', 'Pepcid
  'Dexilant', 'Aciphex', 'Prilosec OTC', 'esomeprazole', 'lansoprazole', 'Prevacid', 'Pepcid', 'rabeprazole', 'sucralfate', 'Pepcid AC', 'Carafate', 'Nexium 24HR', 'Protonix IV', 'Acid Controller Maximum Strength', 'Acid Controller Original Strength', 'Acid Redu
  cer Maximum Strength', 'cimetidine', 'dexlansoprazole', 'Heartburn Relief', 'Heartburn Relief Maximum Strength', 'metoclopramide',
   'omeprazole / sodium bicarbonate', 'Pepcid AC Chewable Tablets', 'Pepcid Oral Suspension', 'Mylanta', 'Reglan', 'Zegerid', 'calciu
   m carbonate', 'Nexium IV', 'nizatidine', 'aluminum hydroxide / magnesium hydroxide / simethicone', 'bethanechol', 'Calci-Chew', 'P
 epcid Complete', 'Prevacid OTC', 'Prevacid SoluTab', 'Tagamet HB', 'Titralac', 'Tums Regular Strength', 'Tums Smoothies', 'Zegerid OTC', 'Aciphex Sprinkle', 'Alamag', 'Alka-Seltzer Heartburn + Gas', 'Almacone', 'aluminum hydroxide / magnesium carbonate', 'alumi
  num hydroxide / magnesium hydroxide', 'aluminum hydroxide', 'Amphojel', 'Axid AR', 'belladonna', 'calcium carbonate / famotidine /
   magnesium hydroxide', 'calcium carbonate / magnesium hydroxide / simethicone', 'calcium carbonate / simethicone', 'Di-Gel', 'Dual
  Action Complete', 'Duo Fusion', 'Gas-X with Maalox Extra Strength', 'Gelusil', 'Mi-Acid', 'Milantex', 'Mintox', 'Mintox Plus', 'My lanta Coat & Cool', 'Mylanta Maximum Strength', 'Mylanta Tonight', 'Rulox', 'sodium citrate', 'Tricitrasol', 'Tums Chewy Bites wit
lanta Coat & Cool', 'Mylanta Maximum Strength', 'Mylanta lonight', 'Rulox', 'Sodium citrate', 'Iricitrasol', 'Tums Cnewy Bites wit h Gas Relief (Lemon & Strawberry)', 'Zegerid with Magnesium Hydroxide', 'allopurinol', 'Uloric', 'Zyloprim', 'Aloprim', 'febuxosta t', 'Krystexxa', 'probenecid', 'pegloticase', 'rilonacept', 'minoxidil', 'Azulfidine', 'sulfasalazine', 'Rogaine', 'Kenalog-10', 'Aristospan', "Rogaine Men's Extra Strength", "Rogaine Women's", 'Hair Regrowth Treatment for Women', 'Hair Regrowth Treatment for Men', 'Azulfidine EN-tabs', 'Zyrtec', 'cetirizine', 'Flonase', 'Allegra', 'Claritin', 'fexofenadine', 'Astelin', 'azelastine', 'Al legra Allergy', 'Astepro', 'Flonase Allergy Relief', 'Dymista', 'Clarinex', 'Nasacort Allergy 24HR', 'Aller-Tec', 'desloratadine',
legra Allergy', 'Astepro', 'Flonase Allergy Relief', 'Dymista', 'Clarinex', 'Nasacort Allergy 24HR', 'Aller-Tec', 'desloratadine', 'Phenergan', 'Alavert', 'Allegra-D 12 Hour', 'Allegra-D 24 Hour', 'Allergy Relief Tablets', 'budesonide', 'Claritin Reditabs', 'Fl onase Sensimist', 'promethazine', 'Zyrtec-D', 'All Day Allergy', "All Day Allergy Children's", 'Allegra ODT', "Aller-Tec Children's", 'Allergy Relief 24 Hour', 'Antinaus 50', 'cetirizine / pseudoephedrine', "Children's Claritin Allergy", 'Claritin-D', 'Claritin-D 24 Hour', 'Clinacort', 'cyproheptadine', 'flunisolide', 'Loratadine-D 24 Hour', 'ohm Allergy Relief', 'Omnaris', 'Patanase', 'Phenadoz', 'Promethegan', 'QNASL', 'Tavist ND', 'Ticanase', 'Wal-itin', 'ZoDex', 'Zyrtec-D 12 Hour', 'acrivastine / pseudoephedrine', 'Aller-Ease', 'Astepro Allergy', 'azelastine / fluticasone', 'Beconase AQ', 'Claritin-D 12 Hour', 'fexofenadine / pseudoephedrine', 'Ioratadine / pseudoephedrine', 'Mucinex Allergy', 'NasalCrom', 'olopatadine', 'Rhinocort Allergy', 'Alavert D-12 Hour Allergy and Sinus', 'All Day Allergy-D', 'Allerest Maximum Strength', 'Allergy & Congestion Relief', 'Allergy Relief D', 'Arbinoxa', 'Brohist D', 'Bromaline', 'brompheniramine / phenylephrine', 'brompheniramine / pseudoephedrine', 'Brotapp', 'carbinoxamine', 'Carboxine', 'Clarinex-D 12 Hour', 'Clarinex-D 24 Hour', 'Clarinex Reditabs', 'Clear-Atadine-D'.
  boxine', 'chlorpheniramine / pseudoephedrine', 'Clarinex-D 12 Hour', 'Clarinex-D 24 Hour', 'Clarinex Reditabs', 'Clear-Atadine-D',
boxine', 'chiorpheniramine', pseudoephedrine', 'Clarinex-D 12 Hour', 'Clarinex-D 24 Hour', 'Clarinex Reditabs', 'Clear-Atadine-D', 'clemastine', 'cromolyn', 'Decon-A', 'Deconamine', 'desloratadine', pseudoephedrine', 'dexchlorpheniramine', phenylephrine', 'dexchlorpheniramine', 'Diretine Decongestant', "Dimetapp Children's Cold & Allergy", 'Grastek', 'Histex CT', 'Histex IE', 'Histex PD', 'house dust mite allergen extract', 'Karbinal ER', 'Leader Allergy Relief D-24', 'Lodrane D', 'LoHist-D', 'Loratadine-D 12 Hour', 'mixed grass pollens allergen extract', 'mometasone / olopatadine', 'Nasonex 24HR Allergy', 'Odactra', 'Oralair', 'Polmo n', 'ragweed pollen allergen extract', 'Ragwitek', 'Ru-Hist D', 'Ryaltris', 'Ryclora', 'Rymed', 'Rynex PE', 'Ryvent', 'Semprex-D', 'SudoGest Sinus & Allergy', 'timothy grass pollen allergen extract', 'Zetonna', 'acyclovir', 'valacyclovir', 'Zovirax Cream', 'Abreva', 'Zovirax Ointment', 'Zovirax', 'docosanol', 'Blistex Ointment', 'allantoin / camphor / phenol', 'lisinopril', 'Policy of the control of the contro
eva', 'Zovirax Ointment', 'Zovirax', 'docosanol', 'Blistex Ointment', 'allantoin / camphor / phenol', 'lisinopril', 'losartan', 'h ydrochlorothiazide', 'Benicar', 'furosemide', 'Cozaar', 'hydrochlorothiazide / lisinopril', 'Bystolic', 'Diovan', 'valsartan', 'Av apro', 'enalapril', 'hydralazine', 'Lasix', 'nifedipine', 'Prinivil', 'ramipril', 'Zestril', 'diltiazem', 'hydrochlorothiazide / losartan', 'irbesartan', 'olmesartan', 'Vasotec', 'chlorthalidone', 'hydrochlorothiazide / triamterene', 'amlodipine / benazepril', 'benazepril', 'bisoprolol', 'Diovan HCT', 'doxazosin', 'Maxzide', 'Benicar HCT', 'candesartan', 'Cartia XT', 'Exforge', 'labetalo l', 'perindopril', 'Qbrelis', 'telmisartan', 'Altace', 'amlodipine / valsartan', 'Aquazide H', 'atenolol / chlorthalidone', 'Azo r', 'captopril', 'Cardizem CD', 'CaroSpir', 'Catapres', 'Catapres-TTS', 'Dyazide', 'Esidrix', 'felodipine', 'hydrochlorothiazide / valsartan', 'Hyzaar', 'indapamide', 'InnoPran XL', 'Lotrel', 'Micardis', 'Microzide', 'nebivolol', 'prazosin', 'Procardia XL', 'qu inapril', 'terazosin', 'Accupril', 'Adalat CC', 'Afeditab CR', 'amlodipine / hydrochlorothiazide / valsartan', 'amlodipine / olmes artan', 'Apresoline', 'Atacand', 'Avalide', 'benazepril / hydrochlorothiazide', 'bendroflumethiazide / nadolol', 'bendroflumethiaz
```

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ide', 'bisoprolol / hydrochlorothiazide', 'Cardizem LA', 'Cardura', 'Dilacor XR', 'Dilt-XR', 'Diltia XT', 'Diltzac', 'Epaned', 'ep lerenone', 'Exforge HCT', 'fosinopril', 'hydrochlorothiazide / irbesartan', 'hydrochlorothiazide / olmesartan', 'hydrochlorothiazi
   de / telmisartan', 'Lotensin', 'Matzim LA', 'methyldopa', 'metolazone', 'Micardis HCT', 'Nexiclon XR', 'Taztia XT', 'Tekturna', 'Tiadylt ER', 'Tiazac', 'torsemide', 'Zestoretic', 'Ziac', 'Accuretic', 'acebutolol', 'Aldactazide', 'Aldoril', 'aliskiren / hydroch
ladyIt ER', 'llazac', 'torsemide', 'Zestoretic', 'Zlac', 'Accuretic', 'acebutolol', 'Aldactazide', 'Aldoril', 'aliskiren', 'morthiazide', 'aliskiren', 'amiloride / hydrochlorothiazide', 'amiloride', 'amlodipine / celecoxib', 'amlodipine / hydrochlorothiazide / olmesartan', 'amlodipine / perindopril', 'amlodipine / telmisartan', 'Atacand HCT', 'azilsartan medoxomil', 'betaxolol', 'Brevibloc', 'candesartan / hydrochlorothiazide', 'captopril / hydrochlorothiazide', 'Carden IV', 'chlorothiazide', 'clevidipine', 'Cleviprex', 'Conjupri', 'Consensi', 'Corzide 40/5', 'Corzide 80/5', 'Demade x', 'Diuril', 'Diuril Sodium', 'Dutoprol', 'Edarby; 'Edarbyclor', 'enalapril / hydrochlorothiazide', 'eprosartan', 'esmolol', 'fo sinopril / hydrochlorothiazide', 'guanabenz', 'hydrochlorothiazide / methyldopa', 'hydrochlorothiazide / metoprolol', 'hydrochlorothiazide', 'wetoprolol', 'Hydrochlorothiazide', 'guanabenz', 'hydrochlorothiazid
   thiazide / moexipril', 'hydrochlorothiazide / quinapril', 'hydrochlorothiazide / spironolactone', 'Hytrin', 'Inspra',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 . 'isradipin
thiazide / moexipril', 'hydrochlorothiazide / quinapril', 'hydrochlorothiazide / spironolactone', 'Hytrin', 'Inspra', 'isradipin e', 'levamlodipine', 'Lopressor HCT', 'Lotensin HCT', 'Maxzide-25', 'mecamylamine', 'Midamor', 'Minipress', 'moexipril', 'nebivolo l / valsartan', 'nicardipine', 'nisoldipine', 'pindolol', 'Prestalia', 'Sular', 'Tarka', 'Tekturna HCT', 'Tenoretic', 'Tenoretic 0', 'Tenoretic 100', 'Trandate', 'trandolapril / verapamil', 'trandolapril', 'Tribenzor', 'Twynsta', 'Vaseretic', 'Vecamyl', 'Zaro xolyn', 'levothyroxine', 'Synthroid', 'Armour Thyroid', 'Levoxyl', 'Cytomel', 'Tirosint', 'Euthyrox', 'liothyronine', 'Nature-Thro id', 'Unithroid', 'Westhroid', 'Levo-T', 'Thyquidity', 'Tirosint-Sol', 'NP Thyroid', 'Triostatt', 'WP Thyroid', 'mesalamine', 'Lial da', 'Asacol', 'Pentasa', 'Apriso', 'Remicade', 'infliximab', 'Asacol HD', 'Delzicol', 'Rowasa', 'Entocort EC', 'mercaptopurine', 'Imuran', 'Gastrocrom', 'Cortef', 'Cortifoam', 'Cortenema', 'Solu-Cortef', 'Azasan', 'oxybutynin', 'Myrbetriq', 'VESIcare', 'Detro 1 LA', 'tolterodine', 'Toviaz', 'solifenacin', 'Oxytrol', 'Detrol', 'Ditropan XL', 'hyoscyamine', 'mirabegron', 'trospium', 'Gelni que', 'Botox', 'fesoterodine', 'darifenacin', 'flavoxate', 'onabotulinumtoxinA', 'Ambien', 'zolpidem', 'Belsomra', 'suvorexant', 'Dayvigo', 'temazepam', 'daridorexant', 'lemborexant', 'Quviviq', 'Lunesta', 'Restoril', 'estazolam', 'flurazepam', 'Halcion', 'Ambien CR', 'eszopiclone', 'Rozerem', 'Silenor', 'Sonata', 'Advil PM', 'triazolam', 'quazepam', 'Edluar', 'Tylenol PM', 'Unisom Slee pTabs', 'zaleplon', 'Compoz Nighttime Sleep Aid', 'Doral', 'ramelteon', 'chloral hydrate', 'dimenhydrinate', 'diphenhydramine / ib uprofen', 'Nytol', 'pentobarbital', 'Simply Sleep', 'Sominex', 'Unisom SleepGels', 'Unisom SleepMelts', 'Zolpimist', 'ZzzQuil', 'a
   uprofen', 'Nytol', 'pentobarbital', 'Simply Sleep', 'Sominex', 'Unisom SleepGels', 'Unisom SleepMelts', 'Zolpimist', 'ZzzQuil', 'a
   cetaminophen / diphenhydramine', 'amobarbital', 'Ibuprofen PM', 'Nighttime Sleepaid', 'Nytol QuickCaps', 'phenobarbital', 'Sleep A
 id', 'Sleepinal', 'Z-Sleep', 'Aleve PM', 'diphenhydramine / magnesium salicylate', 'diphenhydramine / naproxen', 'Doans PM', 'Head ache Relief PM', 'Legatrin PM', 'Midol PM', 'Motrin PM', 'Percogesic Extra Strength', 'Percogesic Original Strength', 'zopiclone', 'esterified estrogens / methyltestosterone', 'EEMT HS', 'Covaryx', 'EEMT', 'Bijuva', 'estradiol / progesterone', 'Covaryx HS', 'su matriptan', 'Imitrex', 'Zomig', 'Cambia', 'Nurtec ODT', 'zolmitriptan', 'rizatriptan', 'Maxalt', 'Reyvow', 'Elyxyb', 'lasmiditan',
  'rimegepant', 'Tosymra', 'Relpax', 'Excedrin Migraine', 'Amerge', 'cyclobenzaprine', 'Fiorinal', 'Treximet', 'Maxalt-MLT', 'diclof enac', 'Ubrelvy', 'naratriptan', 'aspirin / butalbital / caffeine', 'Frova', 'eletriptan', 'Excedrin', 'almotriptan', 'naproxen /
 sumatriptan', 'acetaminophen / aspirin', 'dutabitan', 'Carleine', 'Riva', 'eletriptan', 'acetaminophen', 'amborarin', 'acetaminophen / aspirin / caffeine', 'Imitrex Statdose', 'Methergine', 'Migranal', 'acetaminophen / aspirin / caffeine / salicylamide', 'Cafergot', 'dihydroergotamine', 'frovatriptan', 'Migergot', 'orphenadrine', 'Zembrace SymTouch', 'Zomig-ZM T', 'caffeine / ergotamine', 'celecoxib', 'D.H.E. 45', 'Ergomar', 'ergotamine', 'methylergonovine', 'Onzetra Xsail', 'Painaid', 'V anquish', 'Zomig Nasal Spray', 'Anacin Advanced Headache Formula', 'Backaid Inflammatory Pain Formula', 'Fortabs', 'Genace', "Good
 y's Extra-Strength Headache Powders", "Goody's Extra Strength", "Goody's Headache Powders", 'Migraine Relief', 'Trudhesa', 'ubroge pant', 'meloxicam', 'Celebrex', 'Mobic', 'naproxen', 'ibuprofen', 'Voltaren', 'chondroitin / glucosamine', 'Voltaren Arthritis Pai n Gel', 'Aleve', 'Arthrotec', 'Cataflam', 'nabumetone', 'etodolac', 'Advil', 'Motrin', 'Vimovo', 'Naprosyn', 'Pennsaid', 'Zorvole x', 'Indocin', 'indomethacin', 'Proprinal', 'A-G Profen', 'acetaminophen / codeine', 'Actiprofen', 'Addaprin', 'Advil Liqui-Gels',
 'chondroitin / glucosamine / methylsulfonylmethane', 'diclofenac / misoprostol', 'Duexis', 'Genpril', 'IBU-200', 'Midol IB', 'Motr in IB', 'Naprelan', 'Nuprin', 'Osteo Bi-Flex', 'piroxicam', 'Aflaxen', 'All Day Pain Relief', 'All Day Relief', 'Anaprox', 'Anaprox', 'Cosamin DS', 'Diclozor', 'diflunisal', 'Dolobid', 'EC-Naprosyn', 'Feldene', 'Flanax Pain Reliever', 'ketoprofen', 'Lofen a', 'oxaprozin', 'Profinac', 'salsalate', 'Schiff Move Free', 'sulindac', 'Xrylix', 'betamethasone', 'bioflavonoids', 'capsaicin',
    'Celestone Soluspan', 'Clinoril', 'cortisone', 'Daypro', 'esomeprazole / naproxen', 'Euflexxa', 'hyaluronan', 'Indocin SR', 'Limbr
  el', 'Orthovisc', 'Osteo Bi-Flex Advanced', 'sodium hyaluronate', 'Supartz', 'Synvisc', 'Synvisc-One', 'Zilretta', 'Zostrix', 'ace taminophen / aspirin', 'Arthricream', 'Asper-Flex', 'Axsain', 'Boroleum', 'Capsin', 'Capzasin', 'Capzasin-HP', 'Capzasin-P', 'Cast
   iva Cooling', 'Castiva Warming', 'Choline Magnesium Trisalicylate', 'Cidaflex', 'diclofenac / menthol', 'DicloPR', 'DicloStream',
    'Durolane', 'Eucalyptamint', 'Exocaine Plus', 'famotidine / ibuprofen', 'fenoprofen', 'Fenortho', 'Fenovar', 'flurbiprofen', 'Gels
yn-3', 'Glucoten', 'Gordogesic', 'Heet Triple Action', 'Hyalgan', 'Salgan', 'Hyalgan', 'Salgan', 'Salgan', 'Hyalgan', 'Salgan', 'Salgan', 'Hyalgan', 'Hyal
 ifene / conjugated estrogens', 'Cal-GLU', 'Cal-Lac', 'Calcitrate', 'conjugated estrogens / medroxyprogesterone', 'Duavee', 'esteri fied estrogens', 'estropipate', 'Menest', 'Ogen', 'Os-Cal 500 Chewable', 'Os-Cal Extra D3', 'Oystercal-D', 'Posture', 'Premarin In travenous', 'Premphase', 'romosozumab', 'UPCal D', 'oxycodone', 'acetaminophen', 'hydrocodone', 'Tylenol', 'methadone', 'acetaminophen / hydrocodone', 'Dilaudid', 'buprenorphine', 'OxyContin', 'Buprenex', 'Percocet', 'Paracetamol', 'ketorolac', 'Ultram', 'acet aminophen / oxycodone', 'Demerol', 'Nucynta', 'hydromorphone', 'Roxicodone', 'Tylenol Arthritis Pain', 'morphine', 'Fentanyl Trans
 dermal System', 'pregabalin', 'acetaminophen / tramadol', 'hydrocodone / ibuprofen', 'fentanyl', 'oxymorphone', 'tapentadol', 'Tyl enol 8 Hour', 'Altenol', 'Arthritis Pain Relief', 'Feverall', 'Flector Patch', 'Mapap', 'meperidine', 'MS Contin', '7T Gummy ES Ch ewable Tablets', 'Abenol', 'Acephen', 'Actamin', "Actimol Children's", 'Actimol Infant', "Advil Children's", "Advil Infant's Conce
ewable Tablets', 'Abenol', 'Acephen', 'Actamin', "Actimol Children's", 'Actimol Infant', "Advil Children's", "Advil Infant's Conce ntrated Drops", 'Advil Migraine', 'Aminofen', 'Anacin Aspirin Free', 'Apra', 'Atasol', 'Aurophen', 'Caldolor', 'Cetafen', "Children's Motrin", "Children's Silapap", "Children's Tylenol", 'ConZip', 'Dolono', 'Duragesic', 'Febrol Solution', 'Genapap', 'Genebs', "Infant's Tylenol", 'Jzenol', 'Kadian', 'M-Pap', 'Mapap Arthritis Pain', 'Motrin Childrens', 'Motrin Junior Strength', "Norte mp Children's", 'Nucynta ER', 'Ofirmev', 'Pharbetol', 'Qdolo', 'Silapap Childrens', 'Tactinal', 'Tempra Quicklets', 'Tycolene', 'T ylophen', 'Ultracet', 'Vitapap', 'Actiq', 'Anjeso', 'Dazidox', 'ETH-Oxydose', 'Hysingla ER', 'Oxydos', 'Oxydose', 'Oxyfast', 'Roxy Bond', 'Xtampza ER', 'Zipsor', 'Aloe Vera Burn Relief Spray with Lidocaine', 'AneCream', 'Anestacon', 'Astero', 'Astramorph PF', 'Bactine', 'Belbuca', 'Biofreeze', 'butorphanol', 'Butrans', 'CidalEaze', 'DermacinRx Lidotral\ufeff', 'DermacinRx Lido V Pak', 'D uraclon', 'Duramorph', 'Duramorph PF', 'Eha Lotion', 'Fentora', 'Infumorph', 'Itch Relief', 'levorphanol', 'LidaMantle', 'Lidopa c', 'LidoRx', 'Lidotrans 5 Pak', 'Lidozion', 'LMX 4', 'LMX 5', 'Lydexa', 'Medi-Quik Spray', 'mefenamic acid', 'Methadone Diskets', 'Methadose', 'Mitigo', 'Moxicaine', 'nalbuphine', 'RadiaGuard', 'RectiCare', 'Regenecare HA Spray', 'Sprix', 'Topicaine', 'Tranzarel', 'Xylocaine Topical', 'Zionodil', 'acetaminophen / benzhydrocodone', 'acetaminophen / caffeine / dihydrocodeine', 'acetaminophen / benzhydrocodone', 'acetaminophen / caffeine / dihydrocodeine', 'acetaminophen / benzhydrocodone', 'acetaminophen / benzhydrocodone',
   en / ibuprofen', 'acetaminophen / phenyltoloxamine / salicylamide', 'ActivICE', 'alfentanil', 'Alka-Seltzer Wake-Up Call!', 'Anaci
   n', 'Anbesol', 'Apadaz', 'Arctic Relief', 'Aspercreme Max No Mess Roll-On', 'Aspercreme Pain Relieving Heat Gel', 'aspirin / caffe
   ine / dihydrocodeine', 'aspirin / caffeine', 'aspirin / carisoprodol / codeine', 'aspirin / oxycodone', 'Back & Body Extra Strengt
  h', 'Bayer Back & Body', 'Bayer Extra Strength Back & Body', 'BC Arthritis', 'BC Fast Pain Relief', 'Bengay Cold Therapy Gel', 'Be
  ngay Ultra Strength Pain Relieving Patch', 'BENGAY Vanishing Scent', 'Bengay Zero Degrees', 'Benzo-Jel', 'benzocaine', 'Bio-Therm Pain Relieving Lotion', 'Blue-Emu Maximum Strength Arthritis, Muscle & Joint Pain Relief', 'Blue Gel', 'bupivacaine liposome', 'Capsagel Extra Strength', 'capsaicin / diclofenac', 'capsaicin / lidocaine / menthol / methyl salicylate', 'capsaicin / menthol / me
   thyl salicylate', 'Capsinac', 'celecoxib / tramadol', 'Cepacol Fizzlers', 'Chiggerex', "Cool 'n Heat Patch", 'Cope', 'Dendracin Ne
   urodendraxcin', 'Denti-Care Denti-Freeze', 'DermacinRx Lexitral', 'DermacinRx Lexitral PharmaPak', 'Dermoplast', 'Diclofex DC', 'D
 icloheal-60', 'Diclosaicin', 'Diclotral Pak', "Doan's Pills", 'Doans Pills Extra Strength', 'Dsuvia', 'Duraxin', 'Dvorah', 'dyclon ine', 'Ed-Flex', 'Endodan', 'Exoten-C Pain Relief', 'Exparel', 'Flexall', "Gebauer's Spray and Stretch", 'Gold Bond Medicated Maxi mum Strength Foot', 'Icy Hot Advanced Relief Pain Relief Patch', 'Icy Hot Extra Strength', 'Icy Hot Medicated Spray', 'Icy Hot Van ishing Scent Pain Relieving Gel', 'Inavix', 'Kank-a', 'Lanacane', 'Laryngesic', 'LidoPro', 'magnesium salicylate', 'Max-Freeze', 'Medi-Derm Rx', 'Medicone', 'Medrox', 'Medrox-Rx', 'menthol', 'Meperitab', 'Mineral Ice', 'MST', 'Nalocet', 'naloxone / pentazocin e', 'New Terocin', 'NuDiclo SoluPak', 'Nuprin Backache', 'oliceridine', 'Olinvyk', 'P-A-C', 'P-A-C Analgesic', 'pentafluoropropane
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tetrafluoroethane', 'Percodan', 'Pramox', 'Pramox', 'Pramox', 'Pramak', 'Prolate', 'Prolate', 'Prolate', 'Prolate', 'Prolate', 'Prolate', 'Prolate', 'Prolate', 'Prolate', 'Solnopas-Not', 'Sonna Sonative', 'Soglentis', 'Solarcaine first Aid Medicated Spray', 'Soltice Quik-Rubi, 'Sombra Ocol Transderm-Log', 'Trezik', 'Tru-micin', 'Ultrac 'I' Tiger Bale Pain Relieving Patch', 'Tiovore', 'Topical Anesthetic Dental Gel', 'Transderm-Log', 'Trezik', 'Tru-micin', 'Ultrac 'I' Tiger Bale Pain Relieving Patch', 'Tiovore', 'Topical Anesthetic Dental Gel', 'Transderm-Log', 'Trezik', 'Tru-micin', 'Ultrac 'I' Tiger Bale Pain Relieving Patch', 'Tiovore', 'Topical Anesthetic Dental Gel', 'Transderm-Log', 'Trezik', 'Tru-micin', 'Ultrac 'I' Tiger Bale Mankacin', 'Ancet', 'Zyox', 'Cleocin', 'Figay IV', 'linezolid', 'piperacillin', 'tacobactam', 'Casoyn', 'cefazolin', 'Cleocin', 'Genybate', 'Figay', 15', 'Unancom', 'Tyaga', 'Pancillin', 'Pancillin', 'Pancillin', 'Pancillin', 'Pancillin', 'Pancillin', 'Bakcim', '

```
Number of unique drugs: 2912
         Total data rows: 2931
In [176... drugs_multiple_condns = []
           drugs_so_far = []
           for i in df.index:
               if df["drug_name"][i] in drugs_so_far and df["drug_name"][i] not in drugs_multiple_condns:
                    drugs_multiple_condns.append(df["drug_name"][i])
               if df["drug_name"][i] not in drugs_so_far:
                    drugs_so_far.append(df["drug_name"][i])
           print("The below is the list of only drugs that have multi-purpose:")
           for i in drugs_multiple_condns:
          The below is the list of only drugs that have multi-purpose:
          minocycline
          erythromycin
          triamcinolone
          fluocinolone
          doxepin
          fluticasone
          mometasone
         beclomethasone
         ciclesonide
         acyclovir
         minoxidil
         budesonide
         hydrocortisone
         cromolyn
         diclofenac
         diphenhydramine
         clindamycin
         betamethasone
In [178... df.columns
Out[178... Index(['drug_name', 'medical_condition', 'side_effects', 'generic_name',
                   'drug_classes', 'brand_names', 'activity', 'rx_otc', 'pregnancy_category', 'csa', 'alcohol', 'related_drugs',
```

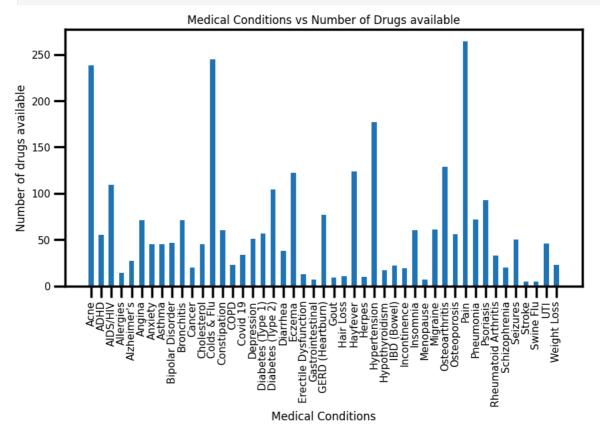
 $\verb|'medical_condition_description', 'rating', 'no_of_reviews'||,$ 

dtvpe='object')

```
In [179... available_drugs_for_condns = [0]*len(med_con)

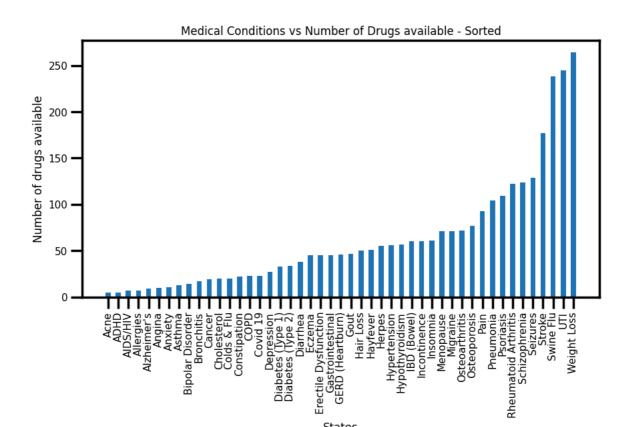
for i in df.index:
    medical_condition = str(df['medical_condition'][i])
    indexx = unique_medical_conditions.index(medical_condition)
    available_drugs_for_condns[indexx] += 1

#Bar Graph
fig = plt.figure(figsize = (10, 5))
# creating the bar plot
plt.bar(unique_medical_conditions, available_drugs_for_condns, width = 0.5)
plt.xlabel("Medical Conditions")
plt.ylabel(f"Number of drugs available")
plt.title(f"Medical Conditions vs Number of Drugs available")
plt.xticks(rotation=90)
plt.show()
```



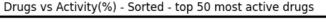
```
# Pareto Chart
available_drugs_for_condns, unique_med_con = zip(*sorted(zip(available_drugs_for_condns, unique_medical_conditions)))

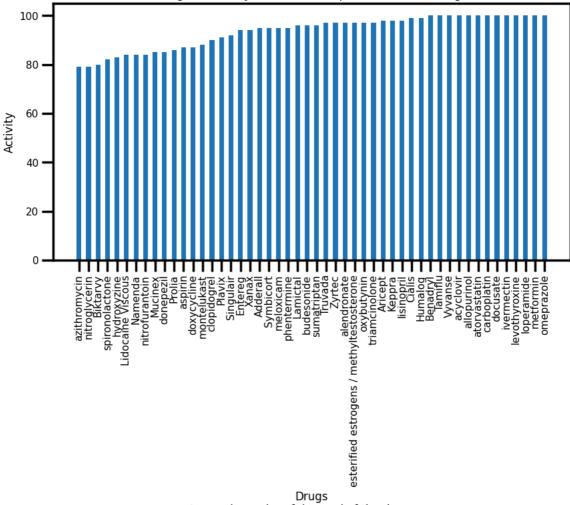
#Bar Graph
fig = plt.figure(figsize = (10, 5))
# creating the bar plot
plt.bar(unique_medical_conditions, available_drugs_for_condns, width = 0.5)
plt.xlabel("States")
plt.ylabel(f"Number of drugs available")
plt.title(f"Medical Conditions vs Number of Drugs available - Sorted")
plt.xticks(rotation=90)
plt.show()
```



```
activities = []
In [181...
           drugs = []
           for i in df.index:
               activities.append(int(df["activity"][i][:-1]))
drugs.append(str(df["drug_name"][i]))
           # Pareto Chart
           activities, drugs = zip(*sorted(zip(activities, drugs)))
           #Bar Graph
           fig = plt.figure(figsize = (10, 5))
           # creating the bar plot
           plt.bar(drugs[-50:], activities[-50:], width = 0.5)
           plt.xlabel("Drugs\nIncreasing order of demand of the drug --->")
           plt.ylabel(f"Activity")
           plt.title(f"Drugs vs Activity(%) - Sorted - top 50 most active drugs")
           plt.xticks(rotation=90)
           plt.show()
```

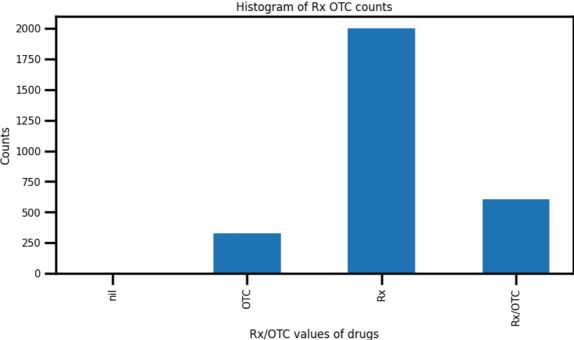
States





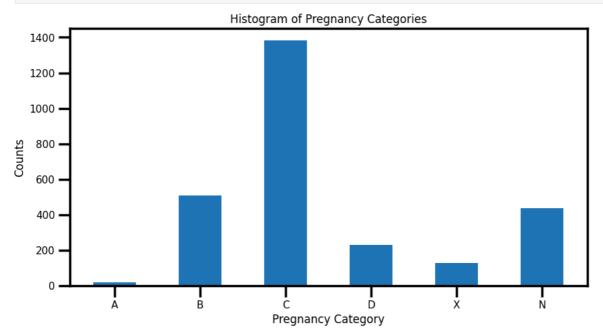
Drugs Increasing order of demand of the drug --->

```
In [182... unique_rx_otc = ['nil', 'OTC', 'Rx', 'Rx/OTC']
          cnts\_rtx\_otc = [0]*len(unique\_rx\_otc)
          for i in df.index:
              if df["rx_otc"][i] == None:
                 cnts_rtx_otc[0] += 1
              elif df["rx_otc"][i] == 'OTC':
                 cnts_rtx_otc[1] += 1
              elif df["rx_otc"][i] == 'Rx':
                 cnts_rtx_otc[2] += 1
              elif df["rx_otc"][i] == 'Rx/OTC':
                 cnts_rtx_otc[3] += 1
          # Pareto Chart
          # cnts, unique_rx_otc = zip(*sorted(zip(cnts, unique_rx_otc)))
          fig = plt.figure(figsize = (10, 5))
          # creating the bar plot
          plt.bar(unique_rx_otc, cnts_rtx_otc, width = 0.5)
          plt.xlabel("Rx/OTC values of drugs")
          plt.ylabel(f"Counts")
          plt.title(f"Histogram of Rx OTC counts")
          plt.xticks(rotation=90)
          plt.show()
```

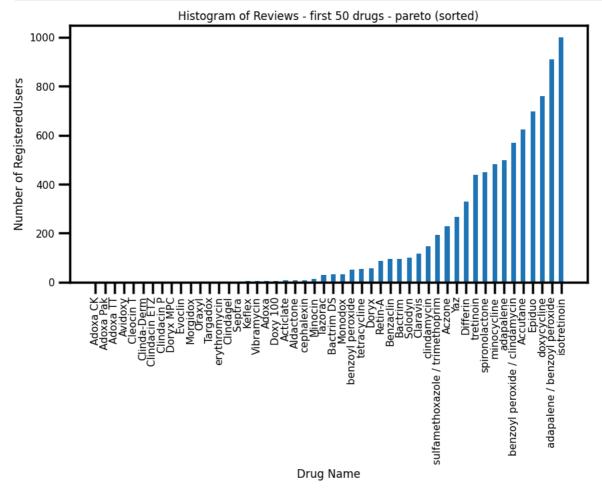


```
KX/OTC values of drug
```

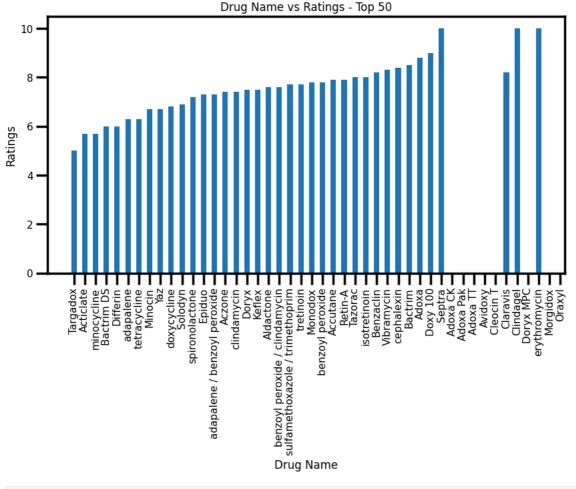
```
pregnancy_categories = ['A', 'B', 'C', 'D', 'X', 'N']
cnts_preg_cat = [0]*len(pregnancy_categories)
for i in df.index:
    if df["pregnancy_category"][i] == 'A':
        cnts_preg_cat[0] += 1
     elif df["pregnancy_category"][i] == 'B':
        cnts_preg_cat[1] += 1
    elif df["pregnancy_category"][i] == 'C':
    cnts_preg_cat[2] += 1
     elif df["pregnancy_category"][i] == 'D':
        cnts_preg_cat[3] += 1
     elif df["pregnancy_category"][i] == 'X':
        cnts_preg_cat[4] += 1
     elif df["pregnancy_category"][i] == 'N':
         cnts_preg_cat[5] += 1
# Pareto Chart
#Bar Graph
fig = plt.figure(figsize = (10, 5))
# creating the bar plot
plt.bar(pregnancy_categories, cnts_preg_cat, width = 0.5)
plt.xlabel("Pregnancy Category")
plt.ylabel(f"Counts")
plt.title(f"Histogram of Pregnancy Categories")
plt.xticks(rotation=0)
plt.show()
```



```
In [186...
          drug names = []
          no_of_ratings = []
          num = 50
          cnt = 0
          for i in df.index:
              if cnt != num:
                  drug_names.append(df["drug_name"][i])
                  if not np.isnan(df["no_of_reviews"][i]):
                      no_of_ratings.append(int(df["no_of_reviews"][i]))
                  else:
                      no_of_ratings.append(0)
              else:
                  break
              cnt += 1
          #Bar Graph
          fig = plt.figure(figsize = (10, 5))
          no_of_ratings, drug_names = zip(*sorted(zip(no_of_ratings, drug_names)))
          # creating the bar plot
          plt.bar(drug_names, no_of_ratings, width = 0.5)
          plt.xlabel("Drug Name")
          plt.ylabel(f"Number of RegisteredUsers")
          plt.title(f"Histogram of Reviews - first {num} drugs - pareto (sorted)")
          plt.xticks(rotation=90)
          plt.show()
```

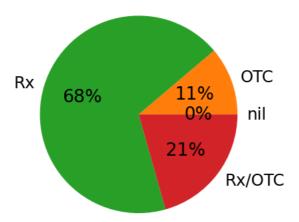


```
In [187... num = 50
    drug_names = df["drug_name"][:num]
    ratings = df["rating"][:num]
    ratings, drug_names = zip(*sorted(zip(ratings, drug_names)))
# Pareto Chart
#Bar Graph
fig = plt.figure(figsize = (10, 5))
# creating the bar plot
plt.bar(drug_names, ratings, width = 0.5)
plt.xlabel("Drug Name")
plt.ylabel(f"Ratings")
plt.title(f"Drug Name vs Ratings - Top {num}")
plt.xticks(rotation=90)
plt.show()
```



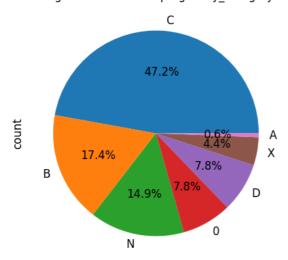
```
In [188...
          sns.set_context('poster', font_scale=0.8)
           plt.figure(figsize=(35,5))
           sns.countplot(data=df,x = 'rating',palette='plasma')
Out[188...
           <Axes: xlabel='rating', ylabel='count'>
          150
          100
         count
           75
           50
In [191...
          y = np.array(cnts_rtx_otc)
           mylabels = unique_rx_otc
           plt.title("\nPie Chart - Rx/OTC Distribution of drugs")
           plt.pie(y, labels = mylabels, autopct='%.0f%')
plt.show()
```

## Pie Chart - Rx/OTC Distribution of drugs

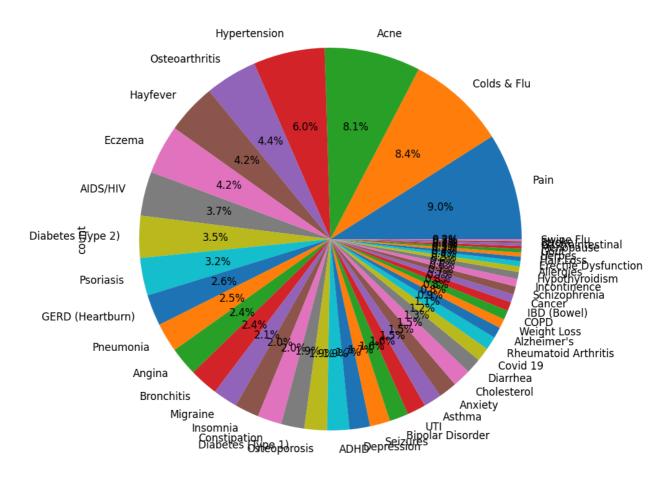


```
In [40]: sns.set_context('poster', font_scale=0.5)
          plt.figure(figsize=(5,5))
          # Pie plot
          df['pregnancy_category'].value_counts().plot.pie(autopct='%1.1f%%', textprops={'fontsize':12}).set_title("Target distribution on
df['pregnancy_category'].value_counts()
Out[40]: pregnancy_category
                1382
          В
                 509
          Ν
                 436
          0
                 229
          D
                 228
                 129
          Name: count, dtype: int64
```

## Target distribution on pregnancy\_category



```
In [41]: sns.set_context('poster', font_scale=0.5)
    plt.figure(figsize=(10,10))
# Pie plot
    df['medical_condition'].value_counts().plot.pie(autopct='%1.1f%%', textprops={'fontsize':12}).set_title("Target distribution on m
Out[41]: Text(0.5, 1.0, 'Target distribution on medical_condition ')
```

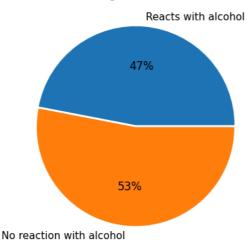


```
In [42]: cnts = 0

for i in df.index:
    if df["alcohol"][i] == 'X':
        cnts += 1
cnts_alcohol = [cnts, df.shape[0] - cnts]
mylabels = ["Reacts with alcohol", "No reaction with alcohol"]

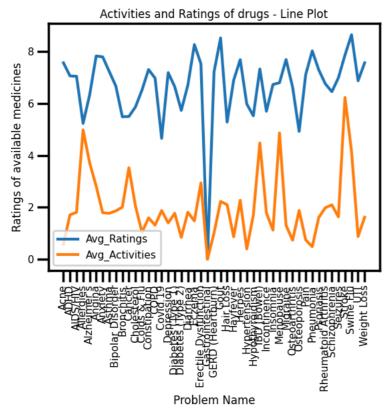
# Alcohol
y = np.array(cnts_alcohol)
# mylabels = unique_rx_otc
myexplode = [0.01]*2
plt.title("Pie Chart - Distribution of drugs based on their reaction with alcohol")
plt.pie(y, labels = mylabels, explode = myexplode, autopct='%.0f%%')
plt.show()
```

Pie Chart - Distribution of drugs based on their reaction with alcohol

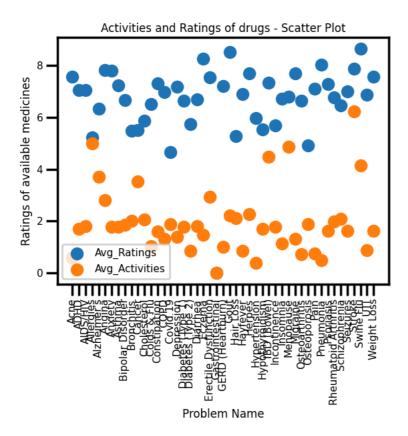


In [43]: avg\_ratings = [0]\*len(unique\_medical\_conditions)
 avg\_denominator = [0]\*len(unique\_medical\_conditions)
 avg\_activities = [0]\*len(unique\_medical\_conditions)

```
for i in range(len(unique_medical_conditions)):
    for j in df.index:
         if str(df["medical_condition"][j]) == unique_medical_conditions[i] and not np.isnan(df["rating"][j]):
    avg_ratings[i] += float(df["rating"][j])
    avg_denominator[i] += 1
              avg_activities[i] += float(df["activity"][j][:-1])
\begin{tabular}{ll} for i in range(len(unique\_medical\_conditions)): \\ \end{tabular}
    if avg_denominator[i] != 0:
         avg_ratings[i] = avg_ratings[i]/avg_denominator[i]
         avg_activities[i] = (avg_activities[i]/avg_denominator[i])/10
plt.plot(unique_medical_conditions, np.array(avg_ratings))
plt.plot(unique_medical_conditions, np.array(avg_activities))
plt.xlabel(f"Problem Name")
plt.ylabel(f"Ratings of available medicines")
plt.title(f"Activities and Ratings of drugs - Line Plot")
plt.legend(["Avg_Ratings", "Avg_Activities"])
plt.xticks(rotation=90)
plt.show()
```



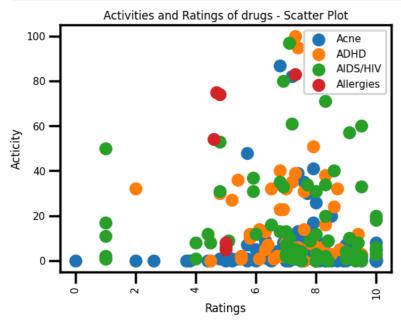
```
In [44]: plt.scatter(unique_medical_conditions, np.array(avg_ratings))
   plt.scatter(unique_medical_conditions, np.array(avg_activities))
   plt.xlabel(f"Problem Name")
   plt.ylabel(f"Ratings of available medicines")
   plt.title(f"Activities and Ratings of drugs - Scatter Plot")
   plt.legend(["Avg_Ratings", "Avg_Activities"])
   plt.xticks(rotation=90)
   plt.show()
```



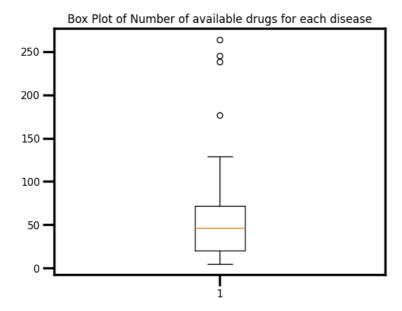
```
In [45]: num = 4
    diseases = unique_medical_conditions[:num]
    property_chosen = [df["rating"], df["activity"]]

properties = []

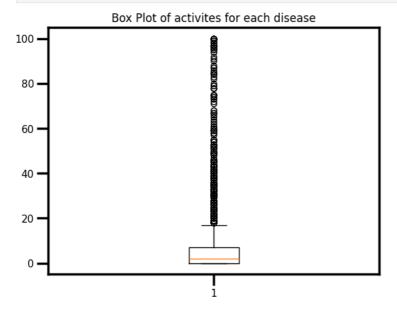
for i in diseases:
    dataa = df.loc[df['medical_condition'] == i]
    rating = list(dataa["rating"])
    activity = []
    for j in dataa.index:
        activity.append(int(dataa["activity"][j][:-1]))
    plt.scatter(rating, activity)
    plt.xlabel(f"Ratings")
    plt.ylabel(f"Raticity")
    plt.title(f"Acticity")
    plt.title(f"Activities and Ratings of drugs - Scatter Plot")
    plt.legend(diseases)
    plt.xticks(rotation=90)
```



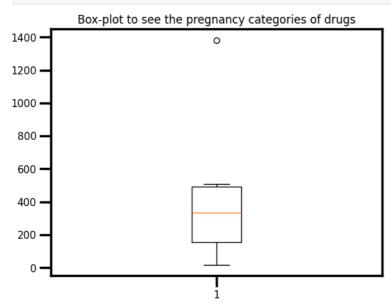
```
In [46]: plt.boxplot(available_drugs_for_condns)
  plt.title(f"Box Plot of Number of available drugs for each disease")
  plt.show()
```

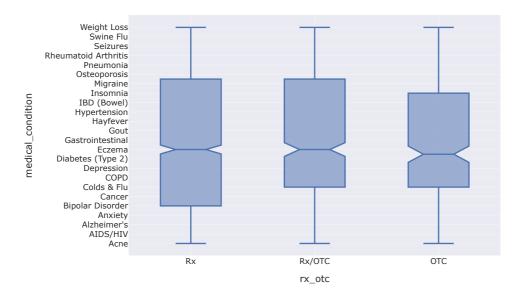


```
In [47]: plt.boxplot(activities)
   plt.title(f"Box Plot of activites for each disease")
   plt.show()
```

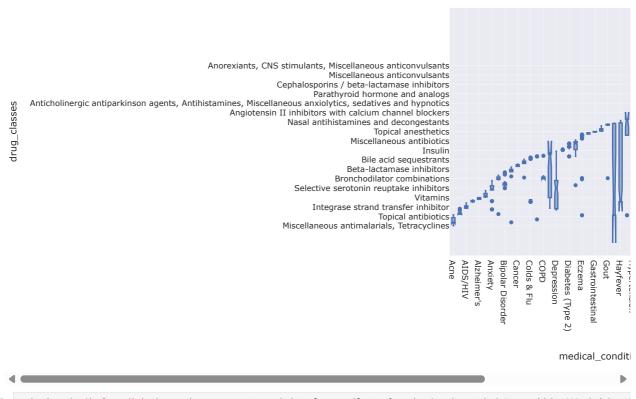


```
In [48]:
plt.boxplot(cnts_preg_cat)
plt.title(f"Box-plot to see the pregnancy categories of drugs")
plt.show()
```

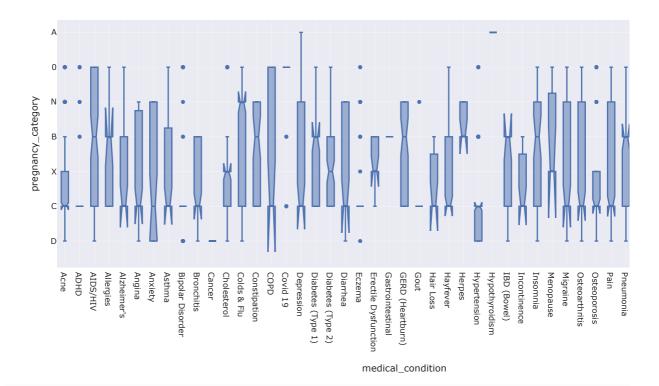




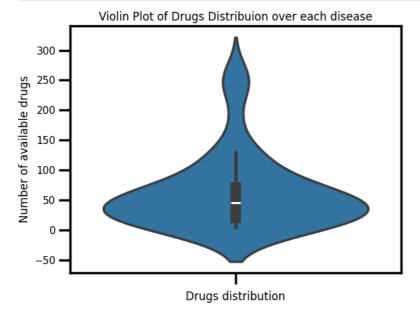
In [50]: ex.box(x = 'medical\_condition', y = 'drug\_classes',data\_frame = df, template='seaborn', notched=True, width=1200, height=600)



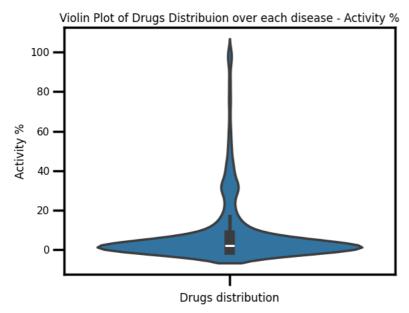
In [51]: ex.box(x = 'medical\_condition', y = 'pregnancy\_category',data\_frame = df, template='seaborn', notched=True, width=1200, height=66



```
In [52]: sns.violinplot(available_drugs_for_condns)
   plt.xlabel(f"Drugs distribution")
   plt.ylabel(f"Number of available drugs")
   plt.title(f"Violin Plot of Drugs Distribuion over each disease")
   plt.xticks(rotation=90)
   plt.show()
```



```
In [53]: sns.violinplot(activities)
  plt.xlabel(f"Drugs distribution")
  plt.ylabel(f"Activity %")
  plt.title(f"Violin Plot of Drugs Distribuion over each disease - Activity %")
  plt.xticks(rotation=90)
  plt.show()
```



```
In [54]: num = 50
    activity = []
    for i in df.index:
        activity.append(int(df["activity"][i][:-1]))
    # print(f"Number of Reviews of the first {num} drugs")
    stemgraphic.stem_graphic(activity[:num] , scale = 10)

Out[54]: (<Figure size 750x300 with 1 Axes>, <Axes: >)
```

```
Key: aggr|stem|leaf
   87
                                             50 8 2 = 8.2 x10 = 82.0
50
     8 27
48
48
48
     4 18
48
     3 059
46
     2 06
43
     1 22337
41
     0 3334444455555555555556667777788889999
36
   3
```

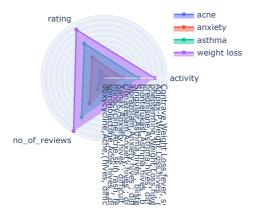
```
In [55]: categories = ["activity", "rating", "no_of_reviews"]

print("Radar Chart")
fig = go.Figure()
plt.Figure(figsize =(5, 3))

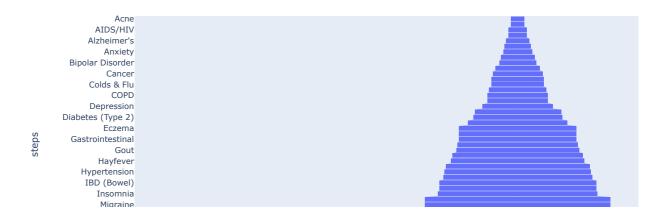
fig.add_trace(go.Scatterpolar(r=df.loc[df["medical_condition"] == 'Acne'], theta=categories, fill='toself', name='acne'))
fig.add_trace(go.Scatterpolar(r=df.loc[df["medical_condition"] == 'Anxiety'], theta=categories, fill='toself', name='anxiety'))
fig.add_trace(go.Scatterpolar(r=df.loc[df["medical_condition"] == 'Asthma'], theta=categories, fill='toself', name='asthma'))
fig.add_trace(go.Scatterpolar(r=df.loc[df["medical_condition"] == 'Weight Loss'], theta=categories, fill='toself', name='weight l
fig.update_layout(autosize=False, width=400, height=400)

fig.show()

Radar Chart
```



Funnel Chart for Diseases and Available drugs



```
In [57]: cnt = 0
for i in df.index:
    related_drugs[cnt].append(df["drug_name"][i])
    cnt += 1

print(related_drugs)
```

```
[['amoxicillin', 'prednisone', 'albuterol', 'ciprofloxacin', 'azithromycin', 'cephalexin', 'metronidazole', 'metronidazole topica l', 'clindamycin topical', 'clindamycin', 'doxycycline'], ['amlodipine', 'lisinopril', 'losartan', 'metoprolol', 'furosemide', 'hy
 drochlorothiazide', 'carvedilol', 'warfarin', 'lasix', 'bumetanide', 'spironolactone'], ['amoxicillin', 'prednisone', 'doxycyclin', 'ciprofloxacin', 'azithromycin', 'cephalexin', 'metronidazole', 'clindamycin topical', 'Augmentin', 'dexamethasone', 'minocycl
 ine'], ['doxycycline', 'clindamycin topical', 'erythromycin topical', 'tetracycline', 'Tazorac', 'Accutane'], ['doxycycline', 'met ronidazole', 'metronidazole topical', 'clindamycin', 'erythromycin topical', 'tetracycline', 'isotretinoin', 'tinidazole', 'Cleoci
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   e', 'clindamycin topical', 'erythromycin topical', 'tetracycline', 'Tazorac', 'benzoyl peroxide / clindamycin'], ['Doxy 100'], ['K
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```

['gabapentin', 'clonazepam', 'lamotrigine', 'pregabalin', 'diazepam', 'Lyrica', 'topiramate', 'levetiracetam', 'Keppra', 'Topama x', 'Elepsia XR'], ['Eprontia'], ['ethosuximide'], ['gabapentin', 'clonazepam', 'lamotrigine', 'pregabalin', 'diazepam', 'topiramate', 'levetiracetam', 'Keppra', 'Topamax', 'Roweepra'], ['gabapentin', 'clonazepam', 'lamotrigine', 'pregabalin', 'diazepam', 'Lyrica', 'topiramate', 'levetiracetam', 'Keppra', 'Topamax', 'Spritam'], ['Fycompa'], ['Phenytek'], ['gabapentin', 'clonazepam', 'lamotrigine', 'pregabalin', 'diazepam', 'Lyrica', 'topiramate', 'levetiracetam', 'Keppra', 'Topamax', 'Roweepra XR'], ['diazepam', 'topiramate', 'levetiracetam', 'Keppra', 'Topamax', 'Nalium', 'Xcopri'], ['nifedipine', 'norethindrone', 'medroxyprogestero epam', 'topiramate', 'levetiracetam', 'Keppra', 'Topamax', 'Valium', 'Xcopri'], ['nifedipine', 'norethindrone', 'medroxyprogestero ne', 'clomiphene', 'terbutaline', 'Clomid', 'Provera', 'Prometrium', 'HCG', 'Brethine', 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```
In [58]: te = TransactionEncoder()
    te_ary = te.fit_transform(related_drugs)

# Print the one-hot encoded Boolean array
print(te_ary)

[[False False False ... False False False]
    [False False False ... False False False]
    [False False False ... False False False]
    ...
    [False False False ... False False False]
    [False False False ... False False False]
    [False False False ... False False False]]

In [59]: df1 = pd.DataFrame(te_ary, columns=te.columns_)
    print(df)
```

```
0
         doxycycline
                                  Acne
1
      spironolactone
                                  Acne
2
        minocycline
                                  Acne
3
           Accutane
                                  Acne
4
         clindamycin
                                  Acne
                           Weight Loss
2926
       benzphetamine
2927
        fenfluramine
                           Weight Loss
2928
         Fendique ER
                           Weight Loss
2929
           Imcivree
                           Weight Loss
2930
       setmelanotide
                           Weight Loss
                                           side_effects \
0
      (hives, difficult breathing, swelling in your ...
1
      hives; difficulty breathing; swelling of your...
2
      skin rash, fever, swollen glands, flu-like sym...
3
      problems with your vision or hearing; muscle o...
4
      hives; difficult breathing; swelling of your ...
2926 hives; difficulty breathing; swelling of your...
      hives; difficult breathing; swelling of your ...
2927
2928
2929
     Imcivree may cause serious side effects, inclu...
2930
     hives; difficult breathing; swelling of your ...
                  generic_name \
0
                   doxycycline
1
                spironolactone
                   minocycline
2
           isotretinoin (oral)
3
4
           clindamycin topical
                 benzphetamine
2926
2927
                  fenfluramine
     phendimetrazine tartrate
2928
                 setmelanotide
2929
2930
                 setmelanotide
                                           drug classes \
0
             Miscellaneous antimalarials, Tetracyclines
1
     Aldosterone receptor antagonists, Potassium-sp...
2
                                          Tetracyclines
     Miscellaneous antineoplastics, Miscellaneous u...
3
4
           Topical acne agents, Vaginal anti-infectives
                            Anorexiants, CNS stimulants
2926
2927
     Anorexiants, CNS stimulants, Miscellaneous ant...
2928
                            Anorexiants, CNS stimulants
2929
                         Melanocortin receptor agonists
2930
                         Melanocortin receptor agonists
                                            brand_names activity rx_otc
0
      Acticlate, Adoxa CK, Adoxa Pak, Adoxa TT, Alod...
1
                                    Aldactone, CaroSpir
                                                              82%
                                                                      Rx
     Dynacin, Minocin, Minolira, Solodyn, Ximino, V...
                                                              41%
      Cleocin T, Clindacin ETZ, Clindacin P, Clindag...
                                        Didrex, Regimex
                                                                      Rx
2927
                                               Fintepla
                                                               1%
                                                                      Rx
2928
                                                               0%
                                                    NaN
                                                                      Rx
2929
                                                     NaN
                                                               0%
                                                                      Rx
2930
                                               Imcivree
                                                                      Rx
     pregnancy_category csa alcohol
0
                          N
                      D
                                  Х
                      C
1
                          N
2
                      D
                          N
                                  0
3
                      Х
                          N
                                  Х
4
                      В
                          N
                                  0
                      Х
                          3
                                  Х
2926
2927
                      C
                          4
                                  Х
2928
                      C
                          3
                                  Х
2929
                      a
                          N
                                  a
2930
                                  0
                                          related drugs \
0
      amoxicillin: https://www.drugs.com/amoxicillin...
1
      amlodipine: https://www.drugs.com/amlodipine.h...
2
      amoxicillin: https://www.drugs.com/amoxicillin...
3
      doxycycline: https://www.drugs.com/doxycycline...
4
      doxycycline: https://www.drugs.com/doxycycline...
2926
     phentermine: https://www.drugs.com/phentermine...
2927
2928
      phentermine: https://www.drugs.com/phentermine...
     phentermine: https://www.drugs.com/phentermine...
2930
      phentermine: https://www.drugs.com/phentermine...
```

drug name medical condition \

```
{\tt medical\_condition\_description} \quad {\tt rating} \quad {\tt no\_of\_reviews}
                   Acne Other names: Acne Vulgaris; Blackheads; B... 6.8
Acne Other names: Acne Vulgaris; Blackheads; B... 7.2
           0
                                                                                                                    760.0
                   Acne Other names: Acne Vulgaris; Blackheads; B... 7.2
Acne Other names: Acne Vulgaris; Blackheads; B... 5.7
Acne Other names: Acne Vulgaris; Blackheads; B... 7.9
Acne Other names: Acne Vulgaris; Blackheads; B... 7.4
146.0
                   Acne Other names: Acne Vulgaris; Blackheads; B...
           1
                                                                                                                    449.0
           2
           3
           4
           2926 Weight Loss (Obesity/Overweight) More than hal... 7.5
2927 Weight Loss (Obesity/Overweight) More than hal... NaN
2928 Weight Loss (Obesity/Overweight) More than hal... NaN
                                                                                                                 17.0
                                                                                                                      NaN
                                                                                                                      NaN
           2929 Weight Loss (Obesity/Overweight) More than hal... NaN
2930 Weight Loss (Obesity/Overweight) More than hal... NaN
                                                                                                                        NaN
                                                                                                                        NaN
           [2931 rows x 15 columns]
In [60]: frequent_itemsets = apriori(df1, min_support=0.01, use_colnames=True)
             # Use the Association Rules algorithm to generate rules with a minimum confidence
             rules = association\_rules (frequent\_itemsets, \ metric = "confidence", \ min\_threshold = 0.7)
             # Print the frequent itemsets and association rules
             print("Frequent Itemsets:")
             print(frequent_itemsets)
             print("\nAssociation Rules:")
             print(rules)
```

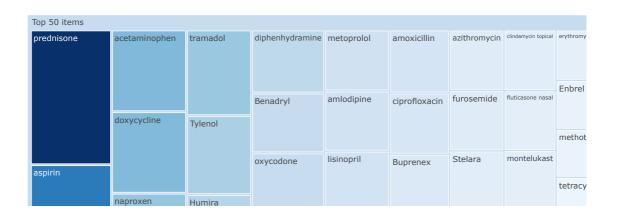
```
Frequent Itemsets:
                                                                 itemsets
              support
             0.010235
                                                                (Abilify)
        1
             0.017741
                                                                (Atripla)
             0.034459
                                                              (Augmentin)
        2
        3
             0.012624
                                                               (Basaglar)
        4
             0.011941
                                                               (Belsomra)
        2844 0.012624 (furosemide, hydrochlorothiazide, losartan, ca...
        2845 0.015353
                        (doxycycline, cephalexin, clindamycin, amoxici...
        2846 0.012282 (doxycycline, cephalexin, clindamycin, prednis...
        2847 0.015353 (doxycycline, cephalexin, clindamycin, amoxici...
        2848 0.010235 (doxycycline, cephalexin, clindamycin, prednis...
        [2849 rows x 2 columns]
        Association Rules:
                                              antecedents \
                                               (Complera)
        1
                                                (Atripla)
                                                (Epzicom)
                                                (Atripla)
        4
                                               (Stribild)
        39057
                 (prednisone, metronidazole, amoxicillin)
        39058
                (prednisone, metronidazole, azithromycin)
        39059
                  (prednisone, metronidazole, Augmentin)
        39060
              (prednisone, metronidazole, ciprofloxacin)
        39061
                             (prednisone, metronidazole)
                                                     consequents antecedent support \
        0
                                                                           0.015694
                                                       (Atripla)
                                                                            0.017741
                                                      (Complera)
        1
                                                       (Atripla)
                                                                            0.016035
        2
                                                       (Epzicom)
                                                                            0.017741
        3
        4
                                                       (Atripla)
                                                                            0.016035
                                                                            0.013988
        39057 (doxycycline, cephalexin, clindamycin, azithro...
                                                                            0.013988
        39058
               (doxycycline, cephalexin, clindamycin, amoxici...
                                                                            0.011259
        39059
               ({\tt doxycycline, cephalexin, clindamycin, amoxici...}
        39060
                                                                            0.013988
               (doxycycline, cephalexin, clindamycin, amoxici...
        39061 (doxycycline, cephalexin, clindamycin, amoxici...
                                                                            0.013988
                                                             lift leverage \
               consequent support support confidence
                        0.017741 0.015694 1.000000 56.365385 0.015416
        0
                                              0.884615 56.365385 0.015416
0.978723 55.166121 0.015410
        1
                         0.015694 0.015694
        2
                         0.017741 0.015694
        3
                         0.016035 0.015694
                                               0.884615 55.166121 0.015410
        4
                         0.017741 0.016035
                                              1.000000 56.365385 0.015751
        39057
                         0.018424 0.010235
                                               0.731707 39.715447 0.009978
        39058
                         0.018424 0.010235
                                               0.731707 39.715447 0.009978
        39059
                         0.020471 0.010235
                                               0.909091 44.409091 0.010005
        39060
                         0.018424 0.010235
                                               0.731707 39.715447 0.009978
        39061
                         0.018424 0.010235
                                               0.731707 39.715447 0.009978
              conviction zhangs_metric
        0
                           0.997920
                     inf
                8.530649
                                1.000000
        1
                46.166155
        3
                8.527692
                                0.999607
                   inf
        4
                               0.998266
                                0.988651
        39057
               3.658602
        39058
                3.658602
                                0.988651
                10.774821
                                0.988613
        39059
        39060
                3.658602
                                0.988651
        39061
                3.658602
                                0.988651
        [39062 rows x 10 columns]
In [61]: max len = frequent itemsets["itemsets"].apply(lambda x: len(x)).max()
         # Print only the last level of frequent itemsets
         print("Frequent Itemsets (Level {}):".format(max_len))
         last\_level\_itemsets = frequent\_itemsets[frequent\_itemsets["itemsets"].apply(lambda \ x: \ len(x)) == max\_len]
         print(last_level_itemsets)
         # Use the Association Rules algorithm to generate rules with a minimum confidence
         rules = association\_rules (frequent\_itemsets, \ metric = "confidence", \ min\_threshold = 0.7)
         # Print the association rules for the last level frequent itemsets
         print("\nAssociation Rules for Frequent Itemsets (Level {}):".format(max_len))
         last_level_rules = rules[rules["antecedents"].apply(lambda x: len(x)==max_len)]
         print(last_level_rules)
```

```
Frequent Itemsets (Level 9):
                                                                       itemsets
                support
         2847 0.015353 (doxycycline, cephalexin, clindamycin, amoxici...
        2848 0.010235 (doxycycline, cephalexin, clindamycin, prednis...
        Association Rules for Frequent Itemsets (Level 9):
        Empty DataFrame
        Columns: [antecedents, consequents, antecedent support, consequent support, support, confidence, lift, leverage, conviction, zhang
         s_metric]
        Index: []
In [62]: import numpy as np
          # Gather All Items of Each Transactions into Numpy Array
          from itertools import chain
         transaction = list(chain.from_iterable(related_drugs))
          # converting to numpy array
          transaction = np.array(transaction)
          print(transaction)
         ['amoxicillin' 'prednisone' 'albuterol' ... 'methamphetamine' 'Alli'
          'setmelanotide']
In [63]: df2 = pd.DataFrame(transaction, columns=["items"])
          # Put 1 to Each Item For Making Countable Table, to be able to perform Group By
          df2["incident_count"] = 1
          # Delete NaN Items from Dataset
indexNames = df2[df2['items'] == "nan" ].index
          \label{lem:df2.drop} $$ df2.drop(indexNames \ , \ inplace=True) $$
          # Making a New Appropriate Pandas DataFrame for Visualizations
          \label{eq:df_table} \begin{tabular}{ll} $\sf df\_table = df2.groupby("items").sum().sort\_values("incident\_count", ascending=False).reset\_index() \\ \end{tabular}
          # Initial Visualizations
          df_table.head(5).style.background_gradient(cmap='Blues')
```

## Out[63]: items incident count

0	prednisone	372
1	aspirin	287
2	acetaminophen	209
3	doxycycline	208
4	naproxen	193

```
In [64]: df_table["all"] = "Top 50 items"
      # creating tree map using plotly
     color_continuous_scale='Blues',
     # ploting the treemap
     fig.show()
```



```
In [65]: te = TransactionEncoder()
         te_ary = te.fit_transform(related_drugs)
         # Print the one-hot encoded Boolean array
```

```
print(te_ary)
        dataset = pd.DataFrame(te_ary, columns=te.columns_)
       [[False False False ... False False]
        [False False False False False]]
In [66]: first30 = df_table["items"].head(30).values
         # Extract Top 30
        dataset = dataset.loc[:,first30]
         # shape of the dataset
        dataset.shape
Out[66]: (2931, 30)
In [67]: from mlxtend.frequent_patterns.fpgrowth import fpgrowth
        #running the fpgrowth algorithm
        res=fpgrowth(dataset,min_support=0.05, use_colnames=True)
        # printing top 10
        res
Out[67]:
           support
                                                   itemsets
```

 support
 itemsets

 0 0.126919
 (prednisone)

 1 0.070966
 (doxycycline)

 2 0.055954
 (Humira)

 3 0.053565
 (diphenhydramine)

 4 0.050836
 (Benadryl)

 ...
 ...

 63 0.050495
 (Tylenol, tramadol, oxycodone, aspirin, naproxen)

 64 0.050495
 (Tylenol, tramadol, oxycodone, aspirin, acetaminophen, n...

 65 0.050495
 (tramadol, oxycodone, aspirin, acetaminophen, ...

 67 0.050495
 (Tylenol, tramadol, oxycodone, aspirin, acetaminophen, ...

68 rows × 2 columns

## In [68]: transactions = related\_drugs print(transactions[:10])

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e']]
```

In [203... def prune(itemsets, min\_support, transactions):

```
frequent_itemsets = []
              for itemset in itemsets:
                   support_count = 0
                   for transaction in transactions:
                       if set(itemset).issubset(set(transaction)):
                           support count += 1
                   if support_count >= min_support:
                        frequent_itemsets.append(itemset)
              return frequent_itemsets
         frequent_itemsets = prune(candidate_1_itemsets, 100 , transactions)
         print(len(frequent_itemsets))
         print(frequent_itemsets)
        [['amoxicillin'], ['prednisone'], ['ciprofloxacin'], ['azithromycin'], ['clindamycin topical'], ['doxycycline'], ['amlodipine'], ['lisinopril'], ['losartan'], ['metoprolol'], ['furosemide'], ['hydrochlorothiazide'], ['Augmentin'], ['erythromycin topical'], ['Cosentyx'], ['Humira'], ['Stelara'], ['Taltz'], ['Benadryl'], ['diphenhydramine'], ['Buprenex'], ['aspirin'], ['acetaminophen'],
        ['tramadol'], ['Tylenol'], ['naproxen'], ['fluticasone nasal'], ['montelukast'], ['cetirizine'], ['promethazine'], ['ibuprofen'],
        ['oxycodone']]
In [ ]: from collections import defaultdict
         import itertools
         # Define a function to compute the support of each itemset
         def compute_support(itemsets, transactions):
              support = defaultdict(int)
              \begin{tabular}{ll} \textbf{for} & transaction & in transactions: \\ \end{tabular}
                  for itemset in itemsets:
                       if set(itemset).issubset(transaction):
                           support[frozenset(itemset)] += 1
         # Define the sample dataset
         min support = 1000
         # Find all frequent itemsets and their support values
         frequent_itemsets = {}
         itemsets = set(item for transaction in transactions for item in transaction)
          for k in range(1, len(itemsets)+1):
              candidate_itemsets = [set(itemset) for itemset in itertools.combinations(itemsets, k)]
              support = compute_support(candidate_itemsets, transactions)
              for itemset in support:
                   if support[itemset] >= min_support:
                       frequent_itemsets[frozenset(itemset)] = support[itemset]
         # Initialize the closed frequent itemsets
         closed itemsets = frequent itemsets.copy()[:10]
         # Compute the closure of each frequent itemset
         for itemset1 in frequent_itemsets[:10]:
              for itemset2 in frequent itemsets[:10]:
                   if itemset1 != itemset2 and itemset1.issubset(itemset2) and frequent_itemsets[itemset1] == frequent_itemsets[itemset2]:
                       closed_itemsets.pop(itemset1, None)
                       break
         # Print the resulting closed frequent itemsets
         print(closed_itemsets)
```

In []:

```
In [246... pregnancy_map = {'X': 0, 'B': 1, 'C': 2, 'D': 3, 'N' : 0}

# map the values in the 'pregnancy' column using the dictionary
df['pregnancy_category'] = df['pregnancy_category'].map(pregnancy_map)

df
```

Out[246...

	drug_name	medical_condition	side_effects	generic_name	drug_classes	brand_names	activity	rx_otc	pregnancy_category	CS
0	doxycycline	Acne	(hives, difficult breathing, swelling in your	doxycycline	Miscellaneous antimalarials, Tetracyclines	Acticlate, Adoxa CK, Adoxa Pak, Adoxa TT, Alod	87%	0	3.0	
1	spironolactone	Acne	hives; difficulty breathing; swelling of your	spironolactone	Aldosterone receptor antagonists, Potassium-sp	Aldactone, CaroSpir	82%	0	2.0	
2	minocycline	Acne	skin rash, fever, swollen glands, flu- like sym	minocycline	Tetracyclines	Dynacin, Minocin, Minolira, Solodyn, Ximino, V	48%	0	3.0	
4	clindamycin	Acne	hives ; difficult breathing; swelling of your	clindamycin topical	Topical acne agents, Vaginal anti- infectives	Cleocin T, Clindacin ETZ, Clindacin P, Clindag	39%	0	1.0	
5	Aldactone	Acne	hives ; difficulty breathing; swelling of your	spironolactone	Aldosterone receptor antagonists, Potassium-sp	CaroSpir	35%	0	2.0	
•••										
2914	phendimetrazine	Weight Loss	hives; difficult breathing; swelling of your	phendimetrazine	Anorexiants, CNS stimulants	Melfiat	14%	0	2.0	
2918	Pregnyl	Weight Loss	hives; difficult breathing; swelling of your	human chorionic gonadotropin (HCG) (injectable)	Gonadotropins	Novarel, Ovidrel	6%	0	0.0	
2923	chorionic gonadotropin (hcg)	Weight Loss	hives; difficult breathing; swelling of your	human chorionic gonadotropin (HCG) (injectable)	Gonadotropins	Novarel, Ovidrel, Pregnyl, Profasi, Chorex, Go	3%	0	0.0	
2924	Lomaira	Weight Loss	hives; difficult breathing; swelling of your	phentermine	Anorexiants	Adipex-P, Suprenza	3%	0	0.0	
2926	benzphetamine	Weight Loss	hives; difficulty breathing; swelling of your	benzphetamine	Anorexiants, CNS stimulants	Didrex, Regimex	2%	0	0.0	

489 rows × 15 columns

```
In [244... rx_map = {'Rx': 0, 'OTC': 1, 'Rx/OTC': 2}

# map the values in the 'pregnancy' column using the dictionary
df['rx_otc'] = df['rx_otc'].map(rx_map)
df
```

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	drug_name	medical_condition	side_effects	generic_name	drug_classes	brand_names	activity	rx_otc	pregnancy_category	cs
0	doxycycline	Acne	(hives, difficult breathing, swelling in your	doxycycline	Miscellaneous antimalarials, Tetracyclines	Acticlate, Adoxa CK, Adoxa Pak, Adoxa TT, Alod	87%	0	D	
1	spironolactone	Acne	hives; difficulty breathing; swelling of your	spironolactone	Aldosterone receptor antagonists, Potassium-sp	Aldactone, CaroSpir	82%	0	C	
2	minocycline	Acne	skin rash, fever, swollen glands, flu- like sym	minocycline	Tetracyclines	Dynacin, Minocin, Minolira, Solodyn, Ximino, V	48%	0	D	
4	clindamycin	Acne	hives; difficult breathing; swelling of your	clindamycin topical	Topical acne agents, Vaginal anti- infectives	Cleocin T, Clindacin ETZ, Clindacin P, Clindag	39%	0	В	
5	Aldactone	Acne	hives; difficulty breathing; swelling of your	spironolactone	Aldosterone receptor antagonists, Potassium-sp	CaroSpir	35%	0	C	
•••										
2914	phendimetrazine	Weight Loss	hives; difficult breathing; swelling of your	phendimetrazine	Anorexiants, CNS stimulants	Melfiat	14%	0	C	
2918	Pregnyl	Weight Loss	hives; difficult breathing; swelling of your	human chorionic gonadotropin (HCG) (injectable)	Gonadotropins	Novarel, Ovidrel	6%	0	x	
2923	chorionic gonadotropin (hcg)	Weight Loss	hives; difficult breathing; swelling of your	human chorionic gonadotropin (HCG) (injectable)	Gonadotropins	Novarel, Ovidrel, Pregnyl, Profasi, Chorex, Go	3%	0	x	
2924	Lomaira	Weight Loss	hives ; difficult breathing; swelling of your	phentermine	Anorexiants	Adipex-P, Suprenza	3%	0	x	
2926	benzphetamine	Weight Loss	hives ; difficulty breathing; swelling of your	benzphetamine	Anorexiants, CNS stimulants	Didrex, Regimex	2%	0	Х	
489 rov	vs × 15 columns									
4										•
df.co	lumns									
Index	'drug_classes	'medical_conditior ', 'brand_names', tegory', 'csa', 'a	'activity',	'rx_otc',	_name',					

In [236...

Out[236...

'pregnancy\_category', 'csa', 'alcohol', 'related\_drugs', 'medical\_condition\_description', 'rating', 'no\_of\_reviews'], dtype='object')

In [242... df.dtypes

```
Out[242... drug_name
                                                                  object
                medical condition
                                                                  obiect
                side_effects
                                                                  object
                generic_name
                                                                  object
                drug_classes
                                                                  object
                brand names
                                                                  object
                activity
                                                                  object
                rx_otc
                                                                  object
                pregnancy_category
                                                                  object
                csa
                                                                  object
                alcohol
                                                                  object
                related_drugs
                                                                  object
                {\tt medical\_condition\_description}
                                                                  object
                rating
                                                                 float64
                no_of_reviews
                                                                 float64
                dtype: object
In [256... df['activity'] = df['activity'].str.strip('%')
                df.activity.unique()
Out[256... array(['87', '82', '48', '39', '35', '26', '13', '9', '7', '6', '5', '4', '3', '2', '1', '0', '95', '51', '32', '16', '14', '12', '40', '33', '17', '8', '75', '19', '24', '23', '94', '78', '67', '59', '10', '49', '31', '96', '37', '34', '79', '46', '21', '22', '53', '30', '18', '11', '100', '68', '42', '28', '25', '73', '72', '15', '52', '74', '97', '20', '58', '36', '29', '38', '41'], dtype=object)
In [258... import numpy as np
                import matplotlib.pyplot as plt
                from sklearn.cluster import KMeans
                # Select only numeric columns for clustering
                df6 = df[['rating', 'activity']].dropna() # Remove NaNs if any
                # Extract values for KMeans
                X = df6.values
                # Perform k-means clustering with k=3
                kmeans = KMeans(n_clusters=3, random_state=42)
                y_kmeans = kmeans.fit_predict(X)
                # Visualize the clusters
               plt.scatter(X[y_kmeans == 0, 0], X[y_kmeans == 0, 1], s=100, c='red', label='Cluster 1')
plt.scatter(X[y_kmeans == 1, 0], X[y_kmeans == 1, 1], s=100, c='blue', label='Cluster 2')
plt.scatter(X[y_kmeans == 2, 0], X[y_kmeans == 2, 1], s=100, c='green', label='Cluster 3')
                # Plot centroids
                plt.scatter(kmeans.cluster_centers_[:, 0], kmeans.cluster_centers_[:, 1], s=300, c='yellow', label='Centroids')
                plt.title('K-Means Clustering')
                plt.xlabel('rating')
plt.ylabel('activity')
                plt.legend()
                plt.show()
```

## Cluster 1 Cluster 3 Centroids O 2 4 6 8 10 rating

```
import numpy as np
import matplotlib.pyplot as plt
from sklearn.cluster import KMeans

# perform k-means clustering with k=3
```

```
print(df.columns)

df4=df[['no_of_reviews', 'activity']]

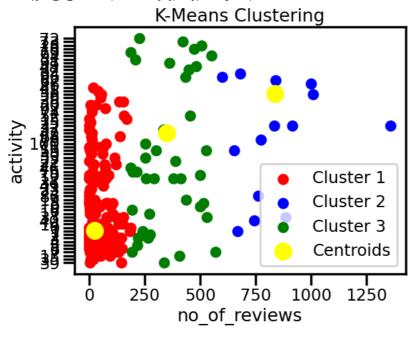
df = df.dropna()

X = df.values
X = df.values
kmeans = KMeans(n_clusters=3)
y_kmeans = kmeans.fit_predict(X)

# visualize the clusters with a scatter plot
plt.scatter(X[y_kmeans == 0, 0], X[y_kmeans == 0, 1], s = 100, c = 'red', label = 'Cluster 1')
plt.scatter(X[y_kmeans == 1, 0], X[y_kmeans == 1, 1], s = 100, c = 'blue', label = 'Cluster 2')
plt.scatter(X[y_kmeans == 2, 0], X[y_kmeans == 2, 1], s = 100, c = 'green', label = 'Cluster 3')

plt.scatter(kmeans.cluster_centers_[:, 0], kmeans.cluster_centers_[:, 1], s = 300, c = 'yellow', label = 'Centroids')
plt.title('K-Means Clustering')
plt.vlabel('no_of_reviews')
plt.vlabel('activity')
plt.lapend()
plt.show()
```

Index(['no\_of\_reviews', 'activity'], dtype='object')



In [224...

Out[224...

	no_of_reviews	activity
0	760.0	87
1	449.0	82
2	482.0	48
4	146.0	39
5	8.0	35
•••		
2914	150.0	14
2918	1.0	6
2923	14.0	3
2924	40.0	3
2926	17.0	2

446 rows × 2 columns