

## 13\_Word\_Frequency\_&\_Vector

August 22, 2017

```
In [1]: import os
        from string import punctuation
        import pandas as pd
        import numpy as np
        import nltk
        from nltk.tokenize import RegexpTokenizer
        from nltk.stem.wordnet import WordNetLemmatizer

In [2]: df_temp = pd.read_excel('2_foidev_column_full_list_standardized.xlsx', sheetname='foidev')
        temp = list(df_temp['Standardized term'])
        temp = list(set(temp))
        temp.remove(np.nan)
        temp.remove('UNK')
        manufacturer = []
        for i in temp:
            i = i.upper()
            i = i.replace(' CORP.', '').replace(' CORPORATION', '').replace(' LTD', '')\
                .replace(' INC.', '').replace(', INC.', '').replace(' INCORPORATED', '').strip()
            manufacturer.append(i)
        print(i)
        del df_temp, temp
```

```
BIOSIL
ALLERGAN
DOW CORNING
NAGOR
MEDICAL ENGINEERING
SILIMED
PMT
MCGHAN
SIENTRA
MEDICAL ENGINEERING CORPORATION
ALLEGIANCE HEALTHCARE
IDEAL IMPLANT
BAXTER HEALTHCARE
HUTCHISON INTERNATIONAL
BIOPLASTY
```



```

df_BI['BRAND_NAME'] = df_BI['BRAND_NAME'].astype(str)
df_BI['GENERIC_NAME'] = df_BI['GENERIC_NAME'].astype(str)
df_BI['FOI_TEXT'] = df_BI['FOI_TEXT'].astype(str)
df_BI = df_BI.drop_duplicates()
df_BI['FOI_TEXT'] = df_BI['FOI_TEXT'].map(processing_text)
print('Full table #:', df_BI.shape[0])

```

Device #: 28182  
 Text #: 27137  
 Full table #: 28301

```

In [9]: def text_search(text, k):
        l = text.split(' ')
        if ' ' in k:
            if k in text:
                return True
            else:
                return False
        else:
            if k in l:
                return True
            else:
                return False

```

```

def filter_merge(f1, f2, f3):
    return (f1 | f2 | f3)

```

```

In [7]: df_vector = pd.DataFrame()
df_vector['MDR_REPORT_KEY'] = df_BI['MDR_REPORT_KEY']
df_vector['MANUFACTURER_D_NAME'] = df_BI['MANUFACTURER_D_NAME']
df_vector['BRAND_NAME'] = df_BI['BRAND_NAME']
df_vector['GENERIC_NAME'] = df_BI['GENERIC_NAME']
df_vector['FOI_TEXT'] = df_BI['FOI_TEXT']

```

```

In [11]: print('Manufacturer word frequency:\n')
        for m in manufacturer:
            df_BI['filter'] = np.vectorize(text_search)(df_BI['MANUFACTURER_D_NAME'], m)
            temp = df_BI.loc[df_BI['filter']==True, :]
            df_vector[m] = np.nan
            df_vector.loc[df_BI['filter']==True, m] = 1
            try:
                df_vector[m] = df_vector[m].fillna(0)
                df_vector[m] = df_vector[m].astype(int)
            except:
                continue
        del df_BI['filter']
        temp.to_csv('WF_FULL_TABLE/manufacturer/'+m+'.txt', header=True, sep='|', index=F

```

```
print(m, ': ', temp.shape[0])
del temp
```

Manufacturer word frequency:

```
BIOSIL : 1681
ALLERGAN : 2565
DOW CORNING : 3630
NAGOR : 4
MEDICAL ENGINEERING : 1542
SILIMED : 7
PMT : 22
MCGHAN : 2141
SIENTRA : 19
MEDICAL ENGINEERING CORPORATION : 3
ALLEGIANCE HEALTHCARE : 14
IDEAL IMPLANT : 57
BAXTER HEALTHCARE : 351
HUTCHISON INTERNATIONAL : 2
BIOPLASTY : 8
NATURAL Y SURGICAL SPECIALTIES : 1
COX-UPHOFF INTERNATIONAL : 2
POLY IMPLANT PROTHESE : 3
MENTOR : 3502
EUROMED : 0
INAMED : 199
```

```
In [12]: print('Surface type word frequency:\n')
for s in surface_type:
    df_BI['filter_1'] = np.vectorize(text_search)(df_BI['BRAND_NAME'], s)
    df_BI['filter_2'] = np.vectorize(text_search)(df_BI['GENERIC_NAME'], s)
    df_BI['filter_3'] = np.vectorize(text_search)(df_BI['FOI_TEXT'], s)
    df_BI['filter'] = np.vectorize(filter_merge)(df_BI['filter_1'], df_BI['filter_2'])
    temp = df_BI.loc[df_BI['filter']==True, :]
    df_vector[s] = np.nan
    df_vector.loc[df_BI['filter']==True, s] = 1
    try:
        df_vector[s] = df_vector[s].fillna(0)
        df_vector[s] = df_vector[s].astype(int)
    except:
        continue
    del df_BI['filter'], df_BI['filter_1'], df_BI['filter_2'], df_BI['filter_3']
    temp.to_csv('WF_FULL_TABLE/surface/'+s+'.txt', header=True, sep='|', index=False)
    print(s, ': ', temp.shape[0])
    del temp
```

Surface type word frequency:

SMOOTH : 1032  
TEXTURED : 769  
BIOCELL : 75  
MICROCELL : 1  
POLYURETHANE : 121

```
In [13]: print('Fill type word frequency:\n')
         for f in fill_type:
             df_BI['filter_1'] = np.vectorize(text_search)(df_BI['BRAND_NAME'], f)
             df_BI['filter_2'] = np.vectorize(text_search)(df_BI['GENERIC_NAME'], f)
             df_BI['filter_3'] = np.vectorize(text_search)(df_BI['FOI_TEXT'], f)
             df_BI['filter'] = np.vectorize(filter_merge)(df_BI['filter_1'], df_BI['filter_2'])
             temp = df_BI.loc[df_BI['filter']==True, :]
             df_vector[f] = np.nan
             df_vector.loc[df_BI['filter']==True, f] = 1
             try:
                 df_vector[f] = df_vector[f].fillna(0)
                 df_vector[f] = df_vector[f].astype(int)
             except:
                 continue
             del df_BI['filter'], df_BI['filter_1'], df_BI['filter_2'], df_BI['filter_3']
             temp.to_csv('WF_FULL_TABLE/fill/'+f+'.txt', header=True, sep='|', index=False)
             print(f, ': ', temp.shape[0])
             del temp
```

Fill type word frequency:

SALINE : 7378  
SILICONE : 11189  
GEL : 8281  
COHESIVE : 363

```
In [14]: print('Implantation indication word frequency:\n')
         for i in implantation_indication:
             df_BI['filter'] = np.vectorize(text_search)(df_BI['FOI_TEXT'], i)
             temp = df_BI.loc[df_BI['filter']==True, :]
             df_vector[i] = np.nan
             df_vector.loc[df_BI['filter']==True, i] = 1
             try:
                 df_vector[i] = df_vector[i].fillna(0)
                 df_vector[i] = df_vector[i].astype(int)
             except:
                 continue
             del df_BI['filter']
             temp.to_csv('WF_FULL_TABLE/implantation_indication/'+i+'.txt', header=True, sep='|')
             print(i, ': ', temp.shape[0])
             del temp
```

Implantation indication word frequency:

AUGMENTATION : 1944  
RECONSTRUCTION : 1053  
COSMETIC : 257  
REVISION : 316

```
In [15]: print('ALCL word frequency:\n')
         for m in ALCL:
             df_BI['filter'] = np.vectorize(text_search)(df_BI['FOI_TEXT'], m)
             temp = df_BI.loc[df_BI['filter']==True, :]
             df_vector[m] = np.nan
             df_vector.loc[df_BI['filter']==True, m] = 1
             try:
                 df_vector[m] = df_vector[m].fillna(0)
                 df_vector[m] = df_vector[m].astype(int)
             except:
                 continue
             del df_BI['filter']
             temp.to_csv('WF_FULL_TABLE/ALCL/'+m+'.txt', header=True, sep='|', index=False)
             print(m, ': ', temp.shape[0])
             del temp
```

ALCL word frequency:

ALCL : 721  
ANAPLASTIC LARGE CELL LYMPHOMA : 492  
LYMPHOMA : 905  
T-CELL LYMPHOMA : 74  
B-CELL LYMPHOMA : 1  
CANCER : 828  
TUMOR : 80  
SUSPECT : 34  
CONFIRM : 188

```
In [16]: print('Side word frequency:\n')
         for s in side:
             df_BI['filter'] = np.vectorize(text_search)(df_BI['FOI_TEXT'], s)
             temp = df_BI.loc[df_BI['filter']==True, :]
             df_vector[s] = np.nan
             df_vector.loc[df_BI['filter']==True, s] = 1
             try:
                 df_vector[s] = df_vector[s].fillna(0)
                 df_vector[s] = df_vector[s].astype(int)
             except:
                 continue
```

```

del df_BI['filter']
temp.to_csv('WF_FULL_TABLE/side/'+s+'.txt', header=True, sep='|', index=False)
print(s, ': ', temp.shape[0])
del temp

```

Side word frequency:

```

LEFT : 6917
RIGHT : 6975
BILATERAL : 6925
BOTH SIDES : 98

```

```

In [17]: print('Biomarker word frequency:\n')
for b in biomarker:
    df_BI['filter'] = np.vectorize(text_search)(df_BI['FOI_TEXT'], b)
    temp = df_BI.loc[df_BI['filter']==True, :]
    df_vector[b] = np.nan
    df_vector.loc[df_BI['filter']==True, b] = 1
    try:
        df_vector[b] = df_vector[b].fillna(0)
        df_vector[b] = df_vector[b].astype(int)
    except:
        continue
    del df_BI['filter']
    temp.to_csv('WF_FULL_TABLE/biomarker/'+b+'.txt', header=True, sep='|', index=False)
    print(b, ': ', temp.shape[0])
    del temp

```

Biomarker word frequency:

```

CD 30 : 7
ALK : 89
NEGATIVE : 321
POSITIVE : 550
CD30- : 0
CD30+ : 79
ALK- : 65
ALK+ : 0

```

```

In [18]: print('Symptom word frequency:\n')
for s in symptom:
    s = s.upper()
    df_BI['filter'] = np.vectorize(text_search)(df_BI['FOI_TEXT'], s)
    temp = df_BI.loc[df_BI['filter']==True, :]
    df_vector[s] = np.nan
    df_vector.loc[df_BI['filter']==True, s] = 1
    try:

```

```

        df_vector[s] = df_vector[s].fillna(0)
        df_vector[s] = df_vector[s].astype(int)
    except:
        continue
    del df_BI['filter']
    temp.to_csv('WF_FULL_TABLE/symptom/'+s+'.txt', header=True, sep='|', index=False)
    print(s, ': ', temp.shape[0])
    del temp

```

Symptom word frequency:

```

BREAST PAIN : 736
BREAST SWELLING : 35
BREAST CYST : 6
BREAST CALCIFICATION : 3
CAPSULAR CONTRACTURE : 3106
LYMPH NODE ENLARGEMENT : 3
FIRMNESS OF BREAST : 5
HEMATOMA : 348
MASS : 278
LUMP : 194
RUPTURE : 2846
DEFLATED : 1172
INFECTION : 1504
ABSCESS : 35
LEUKOPENIA : 2
NODULES : 78
SKIN DISCOLORATION : 13
SKIN LESION : 17
SEROMA : 782
EFFUSION : 43
FLUID : 668
EDEMA : 65
LEAK : 381
REDNESS : 149
TENDERNESS : 372
ERYTHEMA : 60
ASYMMETRY : 682
BREAST ENLARGEMENT : 10

```

```

In [19]: # full_list = {'manufacturer':manufacturer, 'fill':fill_type, 'surface':surface_type,
#                       'implantation_indication':implantation_indication, 'ALCL':ALCL, 'side'
#                       'biomarker':biomarker, 'symptom':symptom}

# df_vector = pd.DataFrame()
# df_vector['MDR_REPORT_KEY'] = df_BI['MDR_REPORT_KEY']
# df_vector['MANUFACTURER_D_NAME'] = df_BI['MANUFACTURER_D_NAME']

```



```

# df_vector['BRAND_NAME'] = df_BI['BRAND_NAME']
# df_vector['GENERIC_NAME'] = df_BI['GENERIC_NAME']
# df_vector['FOI_TEXT'] = df_BI['FOI_TEXT']

# for key, value in full_list.items():
#     for w in value:
#         temp = pd.read_csv(os.path.join('WF_FULL_TABLE', key, w+'.txt'), sep='|', h
#                             encoding='ISO-8859-1', error_bad_lines=False)
#         key_list = list(temp['MDR_REPORT_KEY'])
#         del temp
#         for k in key_list:
#             df_vector.loc[df_vector['MDR_REPORT_KEY']==k, w] = 1
#         try:
#             df_vector[w] = df_vector[w].fillna(0)
#             df_vector[w] = df_vector[w].astype(int)
#         except:
#             continue

# print('Before:', df_vector.shape[0])
# temp = df_BI[['MDR_REPORT_KEY', 'MANUFACTURER_D_NAME', 'BRAND_NAME', 'GENERIC_NAME']
# df_vector = df_vector.merge(temp, on=['MDR_REPORT_KEY'], how='inner')
# df_vector = df_vector.drop_duplicates()
# print('After:', df_vector.shape[0])
df_vector.to_csv('keyword_vector.txt', sep='|', header=True, index=False)
df_vector.head(20)

```

```

Out[19]:
  MDR_REPORT_KEY  MANUFACTURER_D_NAME \
0      6730886  ALLERGAN (COSTA RICA)
1      6730886  ALLERGAN (COSTA RICA)
2      6734192  ALLERGAN (COSTA RICA)
3      6734192  ALLERGAN (COSTA RICA)
4      6283766             IDEAL IMPLANT
5      6283766             IDEAL IMPLANT
6      6533466             MENTOR
7      6533466             MENTOR
8      6315557  ALLERGAN (COSTA RICA)
9      6315557  ALLERGAN (COSTA RICA)
10     6747770  ALLERGAN (COSTA RICA)
11     6747770  ALLERGAN (COSTA RICA)
12     6739134  ALLERGAN (COSTA RICA)
13     6739134  ALLERGAN (COSTA RICA)
14     6749011  MENTOR WORLDWIDE LLC
15     6749011  MENTOR WORLDWIDE LLC
16     6748046  ALLERGAN (COSTA RICA)
17     6748046  ALLERGAN (COSTA RICA)
18     6275181  ALLERGAN (COSTA RICA)
19     6275181  ALLERGAN (COSTA RICA)

```

	BRAND_NAME \
0	UNK SALINE IMPLANT
1	UNK SALINE IMPLANT
2	STYLE 68 SALINE FILLED BREAST IMPLANT
3	STYLE 68 SALINE FILLED BREAST IMPLANT
4	IDEAL IMPLANT STRUCTURED BREAST IMPLANT
5	IDEAL IMPLANT STRUCTURED BREAST IMPLANT
6	MEMORY GEL BREAST IMPLANT
7	MEMORY GEL BREAST IMPLANT
8	UNK MAMMARY IMPLANT
9	UNK MAMMARY IMPLANT
10	STYLE 68 SALINE FILLED BREAST IMPLANT
11	STYLE 68 SALINE FILLED BREAST IMPLANT
12	STYLE 168 SALINE FILLED BREAST IMPLANT
13	STYLE 168 SALINE FILLED BREAST IMPLANT
14	nan
15	nan
16	STYLE 68 SALINE FILLED BREAST IMPLANT
17	STYLE 68 SALINE FILLED BREAST IMPLANT
18	UNK MAMMARY IMPLANT
19	UNK MAMMARY IMPLANT

	GENERIC_NAME \
0	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
1	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
2	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
3	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
4	SALINE-FILLED BREAST IMPLANT
5	SALINE-FILLED BREAST IMPLANT
6	BREAST IMPLANT
7	BREAST IMPLANT
8	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
9	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
10	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
11	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
12	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
13	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
14	BREAST IMPLANT
15	BREAST IMPLANT
16	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
17	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
18	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
19	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE

	FOI_TEXT	BIOSIL	ALLERGAN \
0	HEALTHCARE PROFESSIONAL REPORTED A LEFT SIDE D...	0	1
1	DEVICE EVALUATION VISUAL ANALYSIS OF THE RETUR...	0	1
2	THE DEVICE REMAINS IMPLANTED A REVIEW OF THE D...	0	1

3	PATIENT REPORTED THAT THE LEFT SIDE HAS COLLAP...	0	1
4	DEFLATION RESULTING IN EXPLANATION	0	0
5		0	0
6	I HAD A BREAST AUGMENTATION ON B6 2015 SINCE T...	0	0
7	I HAD A BREAST AUGMENTATION ON B6 2015 SINCE T...	0	0
8	THERAPEUTIC GOODS ADMINISTRATION REPORTED CONF...	0	1
9	THE EVENT OF LYMPHOMA IS A PHYSIOLOGICAL COMPL...	0	1
10	A REVIEW OF THE DEVICE HISTORY RECORD HAS BEEN...	0	1
11	HEALTHCARE PROFESSIONAL REPORTED RIGHT SIDE PO...	0	1
12	HEALTHCARE PROFESSIONAL REPORTED A LEFT SIDE D...	0	1
13	A REVIEW OF THE DEVICE HISTORY RECORD HAS BEEN...	0	1
14	NO DEVICE WAS RECEIVED FOR ANALYSIS AT THE TIM...	0	0
15	IT WAS REPORTED THAT THE PATIENT HAS SUFFERED ...	0	0
16	HEALTH PROFESSIONAL REPORTED RIGHT SIDE Â&RUP...	0	1
17	A REVIEW OF THE DEVICE HISTORY RECORD HAS BEEN...	0	1
18	ARTICLE CITATION Â&TWO-STAGE IMPLANT-BASED BRE...	0	1
19	ARTICLE Â&TWO-STAGE IMPLANT-BASED BREAST RECON...	0	1

	DOW CORNING	NAGOR	MEDICAL ENGINEERING	...	SEROMA	\
0	0	0	0	...	0	
1	0	0	0	...	1	
2	0	0	0	...	0	
3	0	0	0	...	0	
4	0	0	0	...	0	
5	0	0	0	...	0	
6	0	0	0	...	0	
7	0	0	0	...	0	
8	0	0	0	...	0	
9	0	0	0	...	1	
10	0	0	0	...	0	
11	0	0	0	...	0	
12	0	0	0	...	0	
13	0	0	0	...	0	
14	0	0	0	...	0	
15	0	0	0	...	0	
16	0	0	0	...	0	
17	0	0	0	...	0	
18	0	0	0	...	0	
19	0	0	0	...	0	

	EFFUSION	FLUID	EDEMA	LEAK	REDNESS	TENDERNESS	ERYTHEMA	ASYMMETRY	\
0	0	0	0	0	0	0	0	0	
1	0	0	0	1	0	0	0	1	
2	0	0	0	0	0	0	0	1	
3	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	

7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
9	0	1	0	0	0	0	0	0
10	0	0	0	0	0	0	0	1
11	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	1
18	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0

BREAST ENLARGEMENT	
0	0
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0

[20 rows x 88 columns]

```
In [20]: print('Is there saline and silicone at the same time?')
df_vector.loc[(df_vector['SALINE']==1) & (df_vector['SILICONE']==1), :]
```

Is there saline and silicone at the same time?

```
Out[20]:
```

	MDR_REPORT_KEY	MANUFACTURER_D_NAME \
30	6553778	DUPONT/ DOW CORNING/ MENTOR
31	6553778	DUPONT
32	6553778	DUPONT

39	6751940	ALLERGAN (COSTA RICA)
53	6732140	ALLERGAN (COSTA RICA)
81	6378780	ALLERGAN (COSTA RICA)
91	6748708	ALLERGAN (COSTA RICA)
119	6736742	nan
138	6567317	ALLERGAN (COSTA RICA)
169	6750199	UNKNOWN MANUFACTURER
249	6498449	UNKNOWN MANUFACTURER
250	6498449	UNKNOWN MANUFACTURER
262	6732708	ALLERGAN (COSTA RICA)
263	6732708	ALLERGAN (COSTA RICA)
287	6751928	ALLERGAN (COSTA RICA)
289	6752192	ALLERGAN (COSTA RICA)
402	6754735	UNKNOWN MANUFACTURER
460	6604570	MENTOR
461	6604570	MENTOR
467	6460781	ALLERGAN (COSTA RICA)
495	6264680	ALLERGAN (COSTA RICA)
502	6247063	UNKNOWN MANUFACTURER
511	6247160	ALLERGAN (COSTA RICA)
576	6585642	MENTOR
577	6585642	MENTOR
589	6736724	nan
677	6442320	MENTOR
678	6442320	MENTOR
679	6442320	MENTOR
680	6442320	MENTOR
...	...	...
27773	5917337	ALLERGAN, INC.
27774	5917337	ALLERGAN, INC.
27776	6156897	UNKNOWN MANUFACTURER
27828	5697584	ALLERGAN (COSTA RICA)
27839	5488643	ALLERGAN
27855	6156908	UNKNOWN MANUFACTURER
27903	6157609	MENTOR
27904	6157609	MENTOR
27907	6167285	UNKNOWN MANUFACTURER
27911	5825630	UNK
27923	6156904	UNKNOWN MANUFACTURER
27940	6131484	ALLERGAN
27941	6131484	ALLERGAN
27960	5697586	ALLERGAN (COSTA RICA)
28025	5427646	ALLERGAN
28026	5427646	ALLERGAN
28027	5427646	ALLERGAN
28028	5427646	MCGHAN
28029	5427646	ALLERGAN
28030	5427646	MCGHAN IMPLANTS

28037	5829617	MENTOR
28038	5829617	MENTOR
28052	6174085	DOW CORNING / MENTOR
28053	6174085	DOW CORNING / MENTOR
28212	5722896	MENTOR
28213	5722896	MENTOR
28220	6176965	UNKNOWN MANUFACTURER
28224	5808310	MENTOR
28234	5875011	ALLERGAN, INC.
28235	5875011	ALLERGAN, INC.

	BRAND_NAME \
30	BREAST IMPLANT
31	BREAST IMPLANT
32	BREAST IMPLANT
39	UNK MAMMARY IMPLANT
53	UNK MAMMARY IMPLANT
81	STYLE 363 SALINE FILLED BREAST IMPLANT
91	UNK MAMMARY IMPLANT
119	UNK MAMMARY IMPLANT
138	UNK SALINE IMPLANT
169	UNK MAMMARY IMPLANT
249	UNK MAMMARY IMPLANT
250	UNK MAMMARY IMPLANT
262	UNK GEL SALINE IMPLANT
263	UNK GEL SALINE IMPLANT
287	UNK MAMMARY IMPLANT
289	UNK MAMMARY IMPLANT
402	UNK MAMMARY IMPLANT
460	MENTOR BREAST IMPLANTS
461	MENTOR BREAST IMPLANTS
467	UNK SALINE IMPLANT
495	INSPIRA TEXTURED SILICONE GEL FILLED BREAST IM...
502	UNK MAMMARY IMPLANT
511	STYLE 120 SILICONE GEL FILLED BREAST IMPLANT
576	SMOOTH SALINE BREAST IMPLANTS
577	SMOOTH SALINE BREAST IMPLANTS
589	UNK MAMMARY IMPLANT
677	SALINE
678	SALINE
679	SILICONE GEL BREAST IMPLANT
680	SILICONE GEL BREAST IMPLANT
...	...
27773	SALINE BREAST IMPLANTS/TEXTURE
27774	SALINE BREAST IMPLANTS/TEXTURE
27776	UNK GEL BREAST IMPLANT
27828	UNK SALINE IMPLANT
27839	MCGHAN SALINE BREAST IMPLANT HIGH PROFILE

27855	UNK GEL BREAST IMPLANT
27903	MEMORY GEL SMOOTH ROUND HIGH PROFILE
27904	MEMORY GEL SMOOTH ROUND HIGH PROFILE
27907	UNK GEL BREAST IMPLANT
27911	SALINE BREAST IMPLANT
27923	UNK GEL BREAST IMPLANT
27940	NATRELLE SILICONE-FILLED IMPLANTS
27941	NATRELLE SILICONE-FILLED IMPLANTS
27960	UNK SALINE IMPLANT
28025	EXPANDER R STYLE 150
28026	BREAST IMPLANT L STYLE 410FF
28027	BREAST IMPLANT L STYLE 410FF
28028	BREAST IMPLANT L STYLE 153
28029	SALINE IMPLANT L STYLE 150
28030	BREAST IMPLANT L STYLE 153
28037	SALINE IMPLANTS WITH SILICONE SHELL
28038	SALINE IMPLANTS WITH SILICONE SHELL
28052	SALINE BREAST IMPLANTS
28053	SALINE BREAST IMPLANTS
28212	MENTOR SMOOTH ROUND HIGH PROFILE GEL
28213	MENTOR SMOOTH ROUND HIGH PROFILE GEL
28220	UNK GEL BREAST IMPLANT
28224	SILICONE BREAST IMPLANT
28234	NATRELLE SALINE-FILLED BREAST IMPLANTS
28235	NATRELLE SALINE-FILLED BREAST IMPLANTS

	GENERIC_NAME \
30	BREAST IMPLANT
31	BREAST IMPLANT
32	BREAST IMPLANT
39	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
53	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
81	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
91	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
119	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
138	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
169	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
249	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
250	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
262	PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...
263	PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...
287	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
289	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
402	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
460	MENTOR BREAST IMPLANTS
461	MENTOR BREAST IMPLANTS
467	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
495	PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...

502 PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE  
 511 PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...  
 576 SMOOTH SALINE BREAST IMPLANTS  
 577 SMOOTH SALINE BREAST IMPLANTS  
 589 PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE  
 677 SALINE  
 678 SALINE  
 679 SILICONE GEL BREAST IMPLANT  
 680 SILICONE GEL BREAST IMPLANT  
 ...  
 27773 SALINE BREAST IMPLANTS/TEXTURE  
 27774 SALINE BREAST IMPLANTS/TEXTURE  
 27776 PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...  
 27828 PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE  
 27839 PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE  
 27855 PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...  
 27903 BREAST IMPLANTS  
 27904 BREAST IMPLANTS  
 27907 PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...  
 27911 SALINE BREAST IMPLANT  
 27923 PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...  
 27940 NATRELLE SILICONE-FILLED IMPLANTS  
 27941 NATRELLE SILICONE-FILLED IMPLANTS  
 27960 PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE  
 28025 EXPANDER R STYLE 150  
 28026 BREAST IMPLANT L STYLE 410FF  
 28027 BREAST IMPLANT L STYLE 410FF  
 28028 BREAST IMPLANT L STYLE 153  
 28029 SALINE IMPLANT L STYLE 150  
 28030 BREAST IMPLANT L STYLE 153  
 28037 SALINE IMPLANTS WITH SILICONE SHELL  
 28038 SALINE IMPLANTS WITH SILICONE SHELL  
 28052 SALINE BREAST IMPLANTS  
 28053 SALINE BREAST IMPLANTS  
 28212 MENTOR SMOOTH ROUND HIGH PROFILE GEL  
 28213 MENTOR SMOOTH ROUND HIGH PROFILE GEL  
 28220 PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...  
 28224 SILICONE BREAST IMPLANT  
 28234 NATRELLE SALINE-FILLED BREAST IMPLANTS  
 28235 NATRELLE SALINE-FILLED BREAST IMPLANTS

	FOI_TEXT	BIOSIL	ALLERGAN \
30	I HAD SILICONE IMPLANT IN 1986 AND LAST YEAR N...	0	0
31	I HAD SILICONE IMPLANT IN 1986 AND LAST YEAR N...	0	0
32	I HAD SILICONE IMPLANT IN 1986 AND LAST YEAR N...	0	0
39	THIS EVENT IS A KNOWN POTENTIAL ADVERSE EVENT ...	0	1
53	FURTHER INFORMATION FROM THE REPORTER REGARDIN...	0	1
81	IN RESPONSE TO FDA REPORT NUMBER MW5067421 THE...	0	1



91	THIS EVENT IS A KNOWN POTENTIAL ADVERSE EVENT ...	0	1
119	ALLERGAN IS UNABLE TO CONFIRM WITH THE HEALTHC...	0	0
138	REPORTED EVENT OF A PATIENT WITH A LEFT SIDE A...	0	1
169	THIS EVENT IS A KNOWN POTENTIAL ADVERSE EVENT ...	0	0
249	FDA REPORTS "THE FDA HAS RECEIVED A TOTAL OF ...	0	0
250	THIS REPORT IS SUBMITTED IN RESPONSE TO FDA NO...	0	0
262	THE DEVICE REMAINS IMPLANTED FURTHER INFORMATI...	0	1
263	HEALTHCARE PROFESSIONAL REPORTED LEFT SIDE RUP...	0	1
287	FURTHER INFORMATION FROM THE REPORTER REGARDIN...	0	1
289	THIS EVENT IS A KNOWN POTENTIAL ADVERSE EVENT ...	0	1
402	THIS EVENT IS A KNOWN POTENTIAL ADVERSE EVENT ...	0	0
460	I DO NOT KNOW THE EXACT DATES OFF HAND HOWEVER...	0	0
461	I DO NOT KNOW THE EXACT DATES OFF HAND HOWEVER...	0	0
467	THE EVENTS OF LYMPHOMA ALCL SEROMA AND EDEMA A...	0	1
495	DEVICE HISTORY RECORD SUMMARY REVIEW OF DHR FO...	0	1
502	THE EVENTS OF CAPSULAR CONTRACTURE IS A PHYSIO...	0	0
511	B6 -WEIGHT FLUCTUATIONS THE EVENTS OF WEIGHT L...	0	1
576	MENTOR COMBO GEL SILICONESALINE MAMMARY PROSTH...	0	0
577	MENTOR COMBO GEL SILICONESALINE MAMMARY PROSTH...	0	0
589	ALLERGAN IS UNABLE TO CONFIRM WITH THE HEALTHC...	0	0
677	I RECEIVED MY FIRST SET OF IMPLANTS IN 2005 TH...	0	0
678	I RECEIVED MY FIRST SET OF IMPLANTS IN 2005 TH...	0	0
679	I RECEIVED MY FIRST SET OF IMPLANTS IN 2005 TH...	0	0
680	I RECEIVED MY FIRST SET OF IMPLANTS IN 2005 TH...	0	0
...	...	...	...
27773	I WAS IMPLANTED WITH TEXTURE SILICONE SHELL SA...	0	0
27774	I WAS IMPLANTED WITH TEXTURE SILICONE SHELL SA...	0	0
27776	ARTICLE CITATION KAPPEL RM BOER LL DIJKMAN H 2...	0	0
27828	THE FOLLOWING JOURNAL ARTICLE WAS REVIEWED "B...	0	1
27839	DEFLATING LEFT BREAST IMPLANT FOR SURGICAL REM...	0	1
27855	B4 CURRENTLY NO DEVICE DETAILS EXIST AND IT IS...	0	0
27903	I REPLACED MY MENTOR SILICONE IMPLANTS THAT WE...	0	0
27904	I REPLACED MY MENTOR SILICONE IMPLANTS THAT WE...	0	0
27907	REPORTED EVENTS ARE ADDRESSED IN DEVICE LABELI...	0	0
27911	BREAST IMPLANT SILICONE SHELL HAS SECRETED CHE...	0	0
27923	ARTICLE CITATION KAPPEL RM BOER LL DIJKMAN H 2...	0	0
27940	I HAD GOTTEN SILICONE IMPLANTS 2 YEARS AGO B6 ...	0	1
27941	I HAD GOTTEN SILICONE IMPLANTS 2 YEARS AGO B6 ...	0	1
27960	THE FOLLOWING JOURNAL ARTICLE WAS REVIEWED BRE...	0	1
28025	I HAD TO HAVE A DOUBLE MASTECTOMY IN 1997 AND ...	0	1
28026	I HAD TO HAVE A DOUBLE MASTECTOMY IN 1997 AND ...	0	1
28027	I HAD TO HAVE A DOUBLE MASTECTOMY IN 1997 AND ...	0	1
28028	I HAD TO HAVE A DOUBLE MASTECTOMY IN 1997 AND ...	0	0
28029	I HAD TO HAVE A DOUBLE MASTECTOMY IN 1997 AND ...	0	1
28030	I HAD TO HAVE A DOUBLE MASTECTOMY IN 1997 AND ...	0	0
28037	I HAD MENTOR SALINE IMPLANTS PUT IN IN 2005 MY...	0	0
28038	I HAD MENTOR SALINE IMPLANTS PUT IN IN 2005 MY...	0	0
28052	AT THE AGE OF B6 I HAD BREAST IMPLANTS IN THEN...	0	0

28053	AT THE AGE OF B6 I HAD BREAST IMPLANTS IN THEN...	0	0
28212	HAD 10 YEAR SALINE IMPLANTS REMOVED AND MENTOR...	0	0
28213	HAD 10 YEAR SALINE IMPLANTS REMOVED AND MENTOR...	0	0
28220	ARTICLE CITATION "BREAST IMPLANT-ASSOCIATED A...	0	0
28224	THOUSANDS OF KNOWN WOMEN ARE SICK FROM A SILIC...	0	0
28234	SWITCHED OUT SILICONE BREAST IMPLANTS FOR SALI...	0	0
28235	SWITCHED OUT SILICONE BREAST IMPLANTS FOR SALI...	0	0

	DOW CORNING	NAGOR	MEDICAL ENGINEERING	...	SEROMA \
30	1	0	0	...	0
31	0	0	0	...	0
32	0	0	0	...	0
39	0	0	0	...	0
53	0	0	0	...	0
81	0	0	0	...	1
91	0	0	0	...	0
119	0	0	0	...	0
138	0	0	0	...	1
169	0	0	0	...	0
249	0	0	0	...	1
250	0	0	0	...	1
262	0	0	0	...	0
263	0	0	0	...	0
287	0	0	0	...	0
289	0	0	0	...	0
402	0	0	0	...	0
460	0	0	0	...	0
461	0	0	0	...	0
467	0	0	0	...	1
495	0	0	0	...	0
502	0	0	0	...	1
511	0	0	0	...	1
576	0	0	0	...	0
577	0	0	0	...	0
589	0	0	0	...	0
677	0	0	0	...	0
678	0	0	0	...	0
679	0	0	0	...	0
680	0	0	0	...	0
...	...	...	...	...	...
27773	0	0	0	...	0
27774	0	0	0	...	0
27776	0	0	0	...	0
27828	0	0	0	...	0
27839	0	0	0	...	0
27855	0	0	0	...	0
27903	0	0	0	...	0
27904	0	0	0	...	0

27907	0	0	0	...	0
27911	0	0	0	...	0
27923	0	0	0	...	0
27940	0	0	0	...	0
27941	0	0	0	...	0
27960	0	0	0	...	0
28025	0	0	0	...	0
28026	0	0	0	...	0
28027	0	0	0	...	0
28028	0	0	0	...	0
28029	0	0	0	...	0
28030	0	0	0	...	0
28037	0	0	0	...	0
28038	0	0	0	...	0
28052	1	0	0	...	0
28053	1	0	0	...	0
28212	0	0	0	...	0
28213	0	0	0	...	0
28220	0	0	0	...	1
28224	0	0	0	...	0
28234	0	0	0	...	0
28235	0	0	0	...	0

	EFFUSION	FLUID	EDEMA	LEAK	REDNESS	TENDERNESS	ERYTHEMA	ASYMMETRY	\
30	0	0	0	0	0	0	0	0	
31	0	0	0	0	0	0	0	0	
32	0	0	0	0	0	0	0	0	
39	0	0	0	0	0	0	0	0	
53	0	0	0	0	0	0	0	1	
81	0	1	0	0	0	0	0	0	
91	0	0	0	0	0	0	0	0	
119	0	0	0	0	0	0	0	1	
138	0	0	0	0	0	0	0	0	
169	0	0	0	0	0	0	0	0	
249	0	0	0	0	0	0	0	0	
250	0	1	0	0	0	0	0	1	
262	0	0	0	0	0	0	0	0	
263	0	0	0	0	0	0	0	0	
287	0	0	0	0	0	0	0	0	
289	0	0	0	0	0	0	0	0	
402	0	0	0	0	0	0	0	0	
460	0	0	0	0	0	0	0	0	
461	0	0	0	0	0	0	0	0	
467	0	0	1	0	0	0	0	1	
495	0	0	0	0	0	0	0	0	
502	0	0	0	0	0	0	0	1	
511	0	0	0	0	0	0	0	0	
576	0	0	0	1	0	0	0	0	

577	0	0	0	1	0	0	0	0
589	0	0	0	0	0	0	0	1
677	0	0	0	0	0	0	0	0
678	0	0	0	0	0	0	0	0
679	0	0	0	0	0	0	0	0
680	0	0	0	0	0	0	0	0
...	...	...	...	...	...	...	...	...
27773	0	0	0	0	0	0	0	0
27774	0	0	0	0	0	0	0	0
27776	0	0	0	0	0	0	0	0
27828	0	1	0	0	0	0	1	0
27839	0	0	0	0	0	0	0	0
27855	0	0	0	0	0	0	0	0
27903	0	0	0	0	0	0	0	0
27904	0	0	0	0	0	0	0	0
27907	0	0	0	0	0	0	0	0
27911	0	0	0	0	0	0	0	0
27923	0	0	0	0	0	0	0	0
27940	0	0	0	1	0	0	0	0
27941	0	0	0	1	0	0	0	0
27960	0	1	0	0	0	0	0	0
28025	0	0	0	0	0	0	0	0
28026	0	0	0	0	0	0	0	0
28027	0	0	0	0	0	0	0	0
28028	0	0	0	0	0	0	0	0
28029	0	0	0	0	0	0	0	0
28030	0	0	0	0	0	0	0	0
28037	0	0	0	0	0	0	0	0
28038	0	0	0	0	0	0	0	0
28052	0	0	0	0	0	0	0	0
28053	0	0	0	0	0	0	0	0
28212	0	0	0	0	0	0	0	0
28213	0	0	0	0	0	0	0	0
28220	0	0	0	0	0	0	0	0
28224	0	0	0	0	0	0	0	0
28234	0	0	0	0	0	0	0	0
28235	0	0	0	0	0	0	0	0

# BREAST ENLARGEMENT

30	0
31	0
32	0
39	0
53	0
81	0
91	0
119	0
138	0

169	0
249	0
250	0
262	0
263	0
287	0
289	0
402	0
460	0
461	0
467	0
495	0
502	0
511	0
576	0
577	0
589	0
677	0
678	0
679	0
680	0
...	...
27773	0
27774	0
27776	0
27828	0
27839	0
27855	0
27903	0
27904	0
27907	0
27911	0
27923	0
27940	0
27941	0
27960	0
28025	0
28026	0
28027	0
28028	0
28029	0
28030	0
28037	0
28038	0
28052	0
28053	0
28212	0
28213	0

```

28220          0
28224          0
28234          0
28235          0

```

```
[1099 rows x 88 columns]
```

```

In [21]: print('Is there smooth and textured at the same time?')
         df_vector.loc[(df_vector['SMOOTH']==1) & (df_vector['TEXTURED']==1), :]

```

Is there smooth and textured at the same time?

```

Out[21]:      MDR_REPORT_KEY  MANUFACTURER_D_NAME  \
249          6498449  UNKNOWN MANUFACTURER
463          6567310  ALLERGAN (COSTA RICA)
514          6572184          ALLERGAN
515          6572184          ALLERGAN
576          6585642          MENTOR
577          6585642          MENTOR
1278         6529881  MCGHAN/ALLERGAN
1279         6529881  MCGHAN/ALLERGAN
1280         6529881  MCGHAN/ALLERGAN
1281         6529881  MCGHAN/ALLERGAN
1316         6584830          MENTOR
1317         6584830          MENTOR
15640         222182  PIP, INC.
17734         257208  PIP, INC.
17959         257211  PIP, INC.
24426         996432          *
25237         2162357  ALLERGAN
25293         2027271          UNK
25412         2025987  ALLERGAN
25512         2210596  ALLERGAN
25556         2612780  ALLERGAN
25668         2578247  ALLERGAN
25733         2645572  ALLERGAN
26554         4207226  ALLERGAN
27655         5761253  ALLERGAN
28114         5525702  ALLERGAN
28115         5525702  ALLERGAN

                                BRAND_NAME  \
249                                UNK MAMMARY IMPLANT
463  STYLE 410 COHESIVE SILICONE GEL FILLED BREAST ...
514                BREAST IMPLANT SILICONE STYLE 120 600CC
515                MENTOR SMOOTH ROUND PLUS STYLE, 1000 700CC
576                SMOOTH SALINE BREAST IMPLANTS

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577	SMOOTH SALINE BREAST IMPLANTS
1278	SALINE TEXTURED BREAST IMPLANT
1279	SALINE TEXTURED BREAST IMPLANT
1280	SILTEX SALINE FILLED MAMMARY PROSTHESIS
1281	SILTEX SALINE FILLED MAMMARY PROSTHESIS
1316	GEL BREAST IMPLANTS
1317	GEL BREAST IMPLANTS
15640	PIP, INC.
17734	PIP, INC.
17959	PIP, INC.
24426	MENTOR
25237	STYLE 110 SILICONE GEL FILLED BREAST IMPLANT
25293	UNK
25412	STYLE 20 SILICONE GEL FILLED BREAST IMPLANT
25512	UNK MAMMARY IMPLANT
25556	UNK SALINE IMPLANT
25668	STYLE 468 SALINE FILLED BREAST IMPLANT
25733	STYLE 110 SILICONE GEL FILLED BREAST IMPLANT
26554	COHESIVE GEL BREAST IMPLANT
27655	NATRELLE TEXTURED BREAST IMPLANT
28114	NATRELLE
28115	NATURELLE

	GENERIC_NAME \
249	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
463	PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...
514	BREAST IMPLANT
515	BREAST IMPLANT
576	SMOOTH SALINE BREAST IMPLANTS
577	SMOOTH SALINE BREAST IMPLANTS
1278	BREAST IMPLANTS
1279	BREAST IMPLANTS
1280	PROSTHESIS, BREAST
1281	PROSTHESIS, BREAST
1316	GEL BREAST IMPLANTS
1317	GEL BREAST IMPLANTS
15640	BREAST IMPLANT
17734	BREAST IMPLANT
17959	BREAST IMPLANT
24426	SALINE BREAST IMPLANTS
25237	nan
25293	SALINE BREAST IMPLANT
25412	nan
25512	nan
25556	nan
25668	nan
25733	nan
26554	BREAST IMPLANT

27655	BREAST IMPLANT
28114	BREAST IMPLANTS
28115	BREAST IMPLANTS

	FOI_TEXT	BIOSIL	ALLERGAN	\
249	FDA REPORTS THE FDA HAS RECEIVED A TOTAL OF ...	0	0	
463	REPORTED EVENT OF A PATIENT WITH A LEFT SIDE A...	0	1	
514	RIGHT OPEN CAPSULECTOMY AND IMPLANT REMOVAL WI...	0	1	
515	RIGHT OPEN CAPSULECTOMY AND IMPLANT REMOVAL WI...	0	1	
576	MENTOR COMBO GEL SILICONESALINE MAMMARY PROSTH...	0	0	
577	MENTOR COMBO GEL SILICONESALINE MAMMARY PROSTH...	0	0	
1278	I HAD A BREAST DEFORMITY AS A CHILDTEENAGER I ...	0	0	
1279	I HAD A BREAST DEFORMITY AS A CHILDTEENAGER I ...	0	0	
1280	I HAD A BREAST DEFORMITY AS A CHILDTEENAGER I ...	0	0	
1281	I HAD A BREAST DEFORMITY AS A CHILDTEENAGER I ...	0	0	
1316	APPROX 7 YEARS AGO I HAD A BREAST AUGMENTATION...	0	0	
1317	APPROX 7 YEARS AGO I HAD A BREAST AUGMENTATION...	0	0	
15640	PT DEVELOPED CAPSULAR CONTRACTURE ON LEFT SIDE...	0	0	
17734	LATERAL DISPLACEMENT OF THE SMOOTH IMPLANTS AN...	0	0	
17959	LATERAL DISPLACEMENT OF THE SMOOTH IMPLANTS AN...	0	0	
24426	IN 1992 I HAD CORPORATIONS TEXTURED SALINE BRE...	0	0	
25237	A REPORT OF NULL-TYPE ANAPLASTIC LARGE CELL LY...	0	1	
25293	A B6 FEMALE DIAGNOSED WITH BREAST-IMPLANT RELA...	0	0	
25412	HEALTH PROFESSIONAL INITIALLY REPORTS PATIENT ...	0	1	
25512	RECEIVED ABSTRACT ENTITLED PRIMARY ANAPLASTIC ...	0	1	
25556	HEALTHCARE PROFESSIONAL REPORTS VIA MAUDE REPO...	0	1	
25668	ADDITIONAL INFORMATION PROVIDED RECEIVED FROM ...	0	1	
25733	HEALTH PROFESSIONAL REPORTED RIGHT SIDE ANAPLA...	0	1	
26554	I HAD 20 YEAR OLD MCGHAN TEXTURED SALINE IMPLA...	0	1	
27655	I WAS DIAGNOSED WITH BREAST CANCER IN MY RIGHT...	0	1	
28114	BREAST RECONSTRUCTION PATIENT THAT HAD ALLERGA...	0	1	
28115	BREAST RECONSTRUCTION PATIENT THAT HAD ALLERGA...	0	1	

	DOW CORNING	NAGOR	MEDICAL ENGINEERING	...	SEROMA	\
249	0	0	0	...	1	
463	0	0	0	...	1	
514	0	0	0	...	0	
515	0	0	0	...	0	
576	0	0	0	...	0	
577	0	0	0	...	0	
1278	0	0	0	...	0	
1279	0	0	0	...	0	
1280	0	0	0	...	0	
1281	0	0	0	...	0	
1316	0	0	0	...	0	
1317	0	0	0	...	0	
15640	0	0	0	...	0	
17734	0	0	0	...	0	



17959	0	0	0	...	0
24426	0	0	0	...	0
25237	0	0	0	...	0
25293	0	0	0	...	1
25412	0	0	0	...	1
25512	0	0	0	...	0
25556	0	0	0	...	1
25668	0	0	0	...	1
25733	0	0	0	...	1
26554	0	0	0	...	0
27655	0	0	0	...	0
28114	0	0	0	...	1
28115	0	0	0	...	1

	EFFUSION	FLUID	EDEMA	LEAK	REDNESS	TENDERNESS	ERYTHEMA	ASYMMETRY	\
249	0	0	0	0	0	0	0	0	
463	0	0	0	0	0	0	0	0	
514	0	1	0	0	0	0	0	0	
515	0	1	0	0	0	0	0	0	
576	0	0	0	1	0	0	0	0	
577	0	0	0	1	0	0	0	0	
1278	0	1	0	0	0	0	0	0	
1279	0	1	0	0	0	0	0	0	
1280	0	1	0	0	0	0	0	0	
1281	0	1	0	0	0	0	0	0	
1316	0	0	0	0	0	0	0	0	
1317	0	0	0	0	0	0	0	0	
15640	0	0	0	0	0	0	0	0	
17734	0	0	0	0	0	0	0	0	
17959	0	0	0	0	0	0	0	0	
24426	0	0	0	0	0	0	0	0	
25237	0	1	0	0	0	0	0	0	
25293	0	0	0	0	0	0	0	0	
25412	0	1	0	0	0	0	0	0	
25512	0	1	0	0	0	0	0	0	
25556	0	1	0	0	0	0	0	0	
25668	0	0	0	0	0	0	0	0	
25733	0	1	0	0	0	0	0	0	
26554	0	0	0	0	0	0	0	0	
27655	0	1	0	0	0	0	0	0	
28114	0	1	0	0	0	0	0	0	
28115	0	1	0	0	0	0	0	0	

# BREAST ENLARGEMENT

249	0
463	0
514	0
515	0

576	0
577	0
1278	0
1279	0
1280	0
1281	0
1316	0
1317	0
15640	0
17734	0
17959	0
24426	0
25237	0
25293	0
25412	0
25512	0
25556	0
25668	0
25733	0
26554	0
27655	0
28114	0
28115	0

[27 rows x 88 columns]

In [ ]: