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='foidettemp')
        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(' CORPRATION', '').replace(' LTD', '')\
                .replace(' INC.', '').replace(', INC.', '').replace(' INCORPORATED', '').strip
            manufacturer.append(i)
            print(i)
        del df_temp, temp
ALLEGIANCE HEALTHCARE
NAGOR
MEDICAL ENGINEERING
COX-UPHOFF INTERNATIONAL
POLY IMPLANT PROTHESE
SILIMED
SIENTRA
ALLERGAN
BAXTER HEALTHCARE
MEDICAL ENGINEERING CORPORATION
EUROMED
HUTCHISON INTERNATIONAL
NATURAL Y SURGICAL SPECIALTIES
MCGHAN
BIOPLASTY
```

```
INAMED
PMT
MENTOR
IDEAL IMPLANT
DOW CORNING
In [3]: fill_type = ['SALINE', 'SILICONE', 'GEL', 'COHESIVE']
                 surface_type = ['SMOOTH', 'TEXTURED', 'BIOCELL', 'MICROCELL', 'POLYURETHANE']
                 implantation_indication = ['AUGMENTATION', 'RECONSTRUCTION', 'COSMETIC', 'REVISION']
                ALCL = ['ALCL', 'ANAPLASTIC LARGE CELL LYMPHOMA', 'LYMPHOMA', 'T-CELL LYMPHOMA', 'B-CE
                                  'CANCER', 'TUMOR', 'SUSPECT', 'CONFIRM']
                side = ['LEFT', 'RIGHT', 'BILATERAL', 'BOTH SIDES']
                biomarker = ['CD 30', 'ALK', 'NEGATIVE', 'POSITIVE', 'CD30-', 'CD30+', 'ALK-', 'ALK+']
                 symptom = ['breast pain', 'breast swelling', 'breast cyst', 'breast calcification', 'calcification', 'c
                                        'lymph node enlargement', 'firmness of breast', 'hematoma', 'mass', 'lump',
                                        'infection', 'abscess', 'leukopenia', 'nodules', 'skin discoloration', 'ski
                                        'effusion', 'fluid', 'edema', 'leak', 'redness', 'tenderness', 'erythema',
In [4]: punctuations = '''!()[]{};:'"\,<>./?@#$\\^&*_~'''
                 stopwords = nltk.corpus.stopwords.words('english')
                def processing_text(s):
                         s = str(s)
                        no_punct = ""
                         for char in s:
                                 if char not in punctuations:
                                         no_punct = no_punct + char
                         if ('ALCL-' in no_punct) | ('GEL-' in no_punct):
                                 no_punct = no_punct.replace('ALCL-', 'ALCL ')
                                 no_punct = no_punct.replace('GEL-', 'GEL ')
                         1 = no_punct.split(' ')
                         output = []
                         for w in 1:
                                 if w in stopwords:
                                         continue
                                 output.append(w)
                         return ' '.join(output)
In [5]: df_BI_DEV = pd.read_csv('WF/DEV_BI_FULL_TABLE.txt', sep='|', header=0, encoding='ISO-8
                df_BI_DEV = df_BI_DEV.drop_duplicates()
                df_BI_TEXT = pd.read_csv('WF/TEXT_FULL_BI_LIST.txt', sep='|', header=0, encoding='ISO-
                df_BI_TEXT = df_BI_TEXT.drop_duplicates('MDR_TEXT_KEY')
                print('Device #:', df_BI_DEV.shape[0])
                print('Text #:', df_BI_TEXT.shape[0])
                df_BI = df_BI_TEXT.merge(df_BI_DEV, on='MDR_REPORT_KEY', how='inner')
                df_BI['MANUFACTURER_D_NAME'] = df_BI['MANUFACTURER_D_NAME'].astype(str)
```

BIOSIL

```
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 [17]: def text_search(text, k):
                                    1 = text.split(' ')
                                    if ' ' in k:
                                                if k in text:
                                                           return True
                                                else:
                                                           return False
                                    else:
                                                if k in 1:
                                                           return True
                                                else:
                                                           return False
                         def filter_merge(f1, f2, f3):
                                    return (f1 | f2 | f3)
In [18]: print('Manufacturer word frequecy:\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, :]
                                    del df_BI['filter']
                                    temp.to_csv('WF_FULL_TABLE/manufacturer/'+m+'.txt', header=True, sep='|', index=Factoring temp.to_csv('WF_FULL_TABLE/manufacturer/'+m+'.txt', header=True, s
                                    print(m, ':', temp.shape[0])
                                    del temp
Manufacturer word frequecy:
EUROMED : 0
ALLEGIANCE HEALTHCARE: 14
MCGHAN: 2141
SILIMED: 7
MEDICAL ENGINEERING: 1542
INAMED: 199
ALLERGAN: 2565
DOW CORNING: 3630
COX-UPHOFF INTERNATIONAL : 2
IDEAL IMPLANT: 57
```

```
NATURAL Y SURGICAL SPECIALTIES : 1
NAGOR: 4
POLY IMPLANT PROTHESE: 3
MENTOR: 3502
BAXTER HEALTHCARE: 351
SIENTRA: 19
BIOPLASTY: 8
HUTCHISON INTERNATIONAL: 2
MEDICAL ENGINEERING CORPORATION : 3
PMT : 22
BIOSIL: 1681
In [19]: print('Surface type word frequecy:\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, :]
             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 frequecy:
SMOOTH: 1032
TEXTURED: 769
BIOCELL: 75
MICROCELL : 1
POLYURETHANE: 121
In [20]: print('Fill type word frequecy:\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, :]
             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 frequecy:
SALINE: 7378
```

```
SILICONE: 11189
GEL: 8281
COHESIVE: 363
In [21]: print('Implantation indication word frequecy:\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, :]
             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 frequecy:
AUGMENTATION: 1944
RECONSTRUCTION: 1053
COSMETIC : 257
REVISION: 316
In [22]: print('ALCL word frequecy:\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, :]
             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 frequecy:
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 [23]: print('Side word frequecy:\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, :]
             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 frequecy:
LEFT: 6917
RIGHT: 6975
BILATERAL: 6925
BOTH SIDES: 98
In [24]: print('Biomarker word frequecy:\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, :]
             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 frequecy:
CD 30 : 7
ALK : 89
NEGATIVE: 321
POSITIVE: 550
CD30- : 0
CD30+ : 79
ALK- : 65
ALK+ : O
In [25]: print('Symptom word frequecy:\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, :]
             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 frequecy:
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 [6]: full_list = {'manufacturer':manufacturer, 'fill':fill_type, 'surface':surface_type,
                                                        'implantation_indication':implantation_indication, 'ALCL':ALCL, 'side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':side':s
                                                        '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='|', head
                                                                                           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[6]:
            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
                                    IDEAL IMPLANT
                   6283766
        5
                   6283766
                                    IDEAL IMPLANT
        6
                   6533466
                                           MENTOR
        7
                   6533466
                                           MENTOR
                   6315557 ALLERGAN (COSTA RICA)
        8
        9
                   6315557 ALLERGAN (COSTA RICA)
        10
                   6747770 ALLERGAN (COSTA RICA)
        11
                   6747770 ALLERGAN (COSTA RICA)
                   6739134 ALLERGAN (COSTA RICA)
        12
                   6739134 ALLERGAN (COSTA RICA)
        13
                   6749011 MENTOR WORLDWIDE LLC
        14
        15
                   6749011
                           MENTOR WORLDWIDE LLC
        16
                   6748046 ALLERGAN (COSTA RICA)
        17
                   6748046 ALLERGAN (COSTA RICA)
                   6275181 ALLERGAN (COSTA RICA)
        18
        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
              STYLE 68 SALINE FILLED BREAST IMPLANT
        11
        12
             STYLE 168 SALINE FILLED BREAST IMPLANT
             STYLE 168 SALINE FILLED BREAST IMPLANT
        13
```

```
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
   PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
0
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
                                      BREAST IMPLANT
7
8
   PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
9
   PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
   PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
10
   PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
   PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
   PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
14
                                      BREAST IMPLANT
15
                                      BREAST IMPLANT
16 PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
   PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
17
18 PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
   PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
                                              FOI TEXT
                                                        ALLEGIANCE HEALTHCARE
0
   HEALTHCARE PROFESSIONAL REPORTED A LEFT SIDE D...
                                                                            0
1
   DEVICE EVALUATION VISUAL ANALYSIS OF THE RETUR...
                                                                            0
2
   THE DEVICE REMAINS IMPLANTED A REVIEW OF THE D...
                                                                            0
3
   PATIENT REPORTED THAT THE LEFT SIDE HAS COLLAP...
                                                                            0
4
                  DEFLATION RESULTING IN EXPLANTATION
                                                                            0
5
                                                                            0
6
   I HAD A BREAST AUGMENTATION ON B6 2015 SINCE T...
                                                                            0
7
   I HAD A BREAST AUGMENTATION ON B6 2015 SINCE T...
                                                                            0
8
   THERAPEUTIC GOODS ADMINISTRATION REPORTED CONF...
                                                                            0
    THE EVENT OF LYMPHOMA IS A PHYSIOLOGICAL COMPL...
9
                                                                            0
10 A REVIEW OF THE DEVICE HISTORY RECORD HAS BEEN...
                                                                            0
   HEALTHCARE PROFESSIONAL REPORTED RIGHT SIDE PO...
                                                                            0
11
   HEALTHCARE PROFESSIONAL REPORTED A LEFT SIDE D...
                                                                            0
   A REVIEW OF THE DEVICE HISTORY RECORD HAS BEEN...
                                                                            0
13
                                                                            0
   NO DEVICE WAS RECEIVED FOR ANALYSIS AT THE TIM...
                                                                            0
   IT WAS REPORTED THAT THE PATIENT HAS SUFFERED ...
16 HEALTH PROFESSIONAL REPORTED RIGHT SIDE £RUPT...
                                                                            0
17 A REVIEW OF THE DEVICE HISTORY RECORD HAS BEEN...
```

```
ARTICLE CITATION £TWO-STAGE IMPLANT-BASED BRE...
                                                                                      0
19
    ARTICLE £TWO-STAGE IMPLANT-BASED BREAST RECON...
                                                                                      0
    NAGOR MEDICAL ENGINEERING COX-UPHOFF INTERNATIONAL
         0
0
                                 0
1
         0
                                 0
                                                               0
2
         0
                                 0
                                                               0
3
                                 0
         0
4
         0
                                 0
                                                               0
5
                                 0
                                                               0
         0
6
         0
                                 0
                                                               0
7
         0
                                 0
                                                               0
8
                                                               0
         0
                                 0
9
10
11
                                 0
12
                                 0
                                                               0
13
                                 0
                                                               0
         0
14
                                 0
                                                               0
                                 0
                                                               0
15
         0
                                                               0
16
                                 0
17
                                                               0
                                 0
                                                               0
18
         0
19
         0
    POLY IMPLANT PROTHESE
                                                              effusion fluid
                                                                                  edema
                                                      seroma
0
                                                                       0
                                                                               0
                                                                                       0
                                                                       0
1
                           0
                                                           1
                                                                               0
                                                                                       0
2
                           0
                                                           0
                                                                       0
                                                                               0
                                                                                       0
3
                                                                       0
                                                                                       0
4
                                                           0
                                                                       0
                                                                               0
                           0
                                                                                       0
5
                           0
                                                           0
                                                                       0
                                                                               0
                                                                                       0
6
                           0
                                                           0
                                                                       0
                                                                               0
                                                                                       0
7
                           0
                                                           0
                                                                       0
                                                                               0
                                                                                       0
8
                           0
                                                           1
                                                                       0
                                                                               1
                                                                                       0
9
                           0
                                                                       0
                                                                               1
                                                                                       0
10
                           0
                                                           0
                                                                       0
                                                                                       0
11
                           0
                                                           0
                                                                       0
                                                                                       0
                                                           0
                                                                               0
12
                           0
                                                                       0
                                                                                       0
13
                           0
                                                           0
                                                                       0
                                                                               0
                                                                                       0
                           0
                                                           0
                                                                       0
                                                                               0
                                                                                       0
14
15
                                                           0
                                                                       0
                                                                               0
                                                                                       0
                           0
16
                           0
                                                           0
                                                                       0
                                                                               0
                                                                                       0
                                                                               0
17
                           0
                                                                                       0
                                                                       0
                                                                               0
                                                                                       0
18
                                                                                       0
19
```

leak redness tenderness erythema asymmetry breast enlargement

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

[20 rows x 85 columns]

Is there saline and silicone at the same time?

Out[7]:	MDR_REPORT_KEY	MANUFACTURER_D_NAME \
30	6553778	DUPONT/ DOW CORNING/ MENTOR
31	6553778	DUPONT
32	6553778	DUPONT
39	6751940	ALLERGAN (COSTA RICA)
40	6751940	ALLERGAN (COSTA RICA)
53	6732140	ALLERGAN (COSTA RICA)
54	6732140	ALLERGAN (COSTA RICA)
81	6378780	ALLERGAN (COSTA RICA)
82	6378780	ALLERGAN (COSTA RICA)
91	6748708	ALLERGAN (COSTA RICA)
92	6748708	ALLERGAN (COSTA RICA)
119	6736742	nan
120	6736742	nan
138	6567317	ALLERGAN (COSTA RICA)
139	6567317	ALLERGAN (COSTA RICA)
168	6750199	UNKNOWN MANUFACTURER
169	6750199	UNKNOWN MANUFACTURER
249	6498449	UNKNOWN MANUFACTURER

250	6498449	UNKNOWN MANUFACTURER
262	6732708	ALLERGAN (COSTA RICA)
263	6732708	ALLERGAN (COSTA RICA)
286	6751928	ALLERGAN (COSTA RICA)
287	6751928	ALLERGAN (COSTA RICA)
288	6752192	ALLERGAN (COSTA RICA)
289	6752192	ALLERGAN (COSTA RICA)
402	6754735	UNKNOWN MANUFACTURER
403	6754735	UNKNOWN MANUFACTURER
460	6604570	MENTOR
461	6604570	MENTOR
466	6460781	ALLERGAN (COSTA RICA)
• • •	• • •	•••
27903	6157609	MENTOR
27904	6157609	MENTOR
27905	6167285	UNKNOWN MANUFACTURER
27906	6167285	UNKNOWN MANUFACTURER
27907	6167285	UNKNOWN MANUFACTURER
27908	6167285	UNKNOWN MANUFACTURER
27911	5825630	UNK
27922	6156904	UNKNOWN MANUFACTURER
27923	6156904	UNKNOWN MANUFACTURER
27940	6131484	ALLERGAN
27941	6131484	ALLERGAN
27959	5697586	ALLERGAN (COSTA RICA)
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
28219	6176965	UNKNOWN MANUFACTURER
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
40	UNK MAMMARY IMPLANT
53	UNK MAMMARY IMPLANT
54	UNK MAMMARY IMPLANT
81	STYLE 363 SALINE FILLED BREAST IMPLANT
82	STYLE 363 SALINE FILLED BREAST IMPLANT
91	UNK MAMMARY IMPLANT
92	UNK MAMMARY IMPLANT
119	UNK MAMMARY IMPLANT
120	UNK MAMMARY IMPLANT
138	UNK SALINE IMPLANT
139	UNK SALINE IMPLANT
168	UNK MAMMARY IMPLANT
169	UNK MAMMARY IMPLANT
249	UNK MAMMARY IMPLANT
250	UNK MAMMARY IMPLANT
262	UNK GEL SALINE IMPLANT
263	UNK GEL SALINE IMPLANT
286	UNK MAMMARY IMPLANT
287	UNK MAMMARY IMPLANT
288	UNK MAMMARY IMPLANT
289	UNK MAMMARY IMPLANT
402	UNK MAMMARY IMPLANT
403	UNK MAMMARY IMPLANT
460	MENTOR BREAST IMPLANTS
461	MENTOR BREAST IMPLANTS
466	UNK SALINE IMPLANT
100	ONI DALINE III LANI
27903	MEMORY GEL SMOOTH ROUND HIGH PROFILE
27904	MEMORY GEL SMOOTH ROUND HIGH PROFILE
27905	UNK GEL BREAST IMPLANT
27906	UNK GEL BREAST IMPLANT
27907	UNK GEL BREAST IMPLANT
27908	UNK GEL BREAST IMPLANT
27911	SALINE BREAST IMPLANT
27922	UNK GEL BREAST IMPLANT
27923	UNK GEL BREAST IMPLANT
27940	NATRELLE SILICONE-FILLED IMPLANTS
27941	NATRELLE SILICONE FILLED IMPLANTS
27959	UNK SALINE IMPLANT
27960	UNK SALINE IMPLANT
28025	EXPANDER R STYLE 150
28026	BREAST IMPLANT L STYLE 410FF
28020	BREAST IMPLANT L STYLE 410FF
28027	BREAST IMPLANT L STYLE 410FF
28029	SALINE IMPLANT L STYLE 150
28029	BREAST IMPLANT L STYLE 153
28030	SALINE IMPLANTS WITH SILICONE SHELL
20001	PUTTING THE THE CLIMP THE STELLOUNE SUEFFE

```
28052
                       SALINE BREAST IMPLANTS
28053
                       SALINE BREAST IMPLANTS
         MENTOR SMOOTH ROUND HIGH PROFILE GEL
28212
28213
         MENTOR SMOOTH ROUND HIGH PROFILE GEL
                       UNK GEL BREAST IMPLANT
28219
28220
                       UNK GEL BREAST IMPLANT
28224
                      SILICONE BREAST IMPLANT
      NATRELLE SALINE-FILLED BREAST IMPLANTS
28234
28235 NATRELLE SALINE-FILLED BREAST IMPLANTS
                                             GENERIC_NAME \
30
                                           BREAST IMPLANT
31
                                           BREAST IMPLANT
32
                                           BREAST IMPLANT
39
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
40
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
53
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
54
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
81
82
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
91
92
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
119
120
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
138
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
139
168
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
169
249
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
250
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
262
       PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...
263
       PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...
286
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
287
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
288
289
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
402
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
403
460
                                  MENTOR BREAST IMPLANTS
461
                                  MENTOR BREAST IMPLANTS
466
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
. . .
27903
                                          BREAST IMPLANTS
27904
                                          BREAST IMPLANTS
27905
      PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...
      PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...
27906
27907 PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...
```

SALINE IMPLANTS WITH SILICONE SHELL

28038

```
27908 PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...
27911
                                   SALINE BREAST IMPLANT
27922
     PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...
27923 PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...
27940
                       NATRELLE SILICONE-FILLED IMPLANTS
27941
                       NATRELLE SILICONE-FILLED IMPLANTS
27959
        PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
       PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE
27960
28025
                                    EXPANDER R STYLE 150
28026
                            BREAST IMPLANT L STYLE 410FF
                            BREAST IMPLANT L STYLE 410FF
28027
                              BREAST IMPLANT L STYLE 153
28028
                              SALINE IMPLANT L STYLE 150
28029
                              BREAST IMPLANT L STYLE 153
28030
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
28219 PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...
28220 PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S...
28224
                                 SILICONE BREAST IMPLANT
28234
                  NATRELLE SALINE-FILLED BREAST IMPLANTS
28235
                  NATRELLE SALINE-FILLED BREAST IMPLANTS
                                                FOI TEXT \
30
       I HAD SILICONE IMPLANT IN 1986 AND LAST YEAR N...
31
       I HAD SILICONE IMPLANT IN 1986 AND LAST YEAR N...
32
       I HAD SILICONE IMPLANT IN 1986 AND LAST YEAR N...
39
       THIS EVENT IS A KNOWN POTENTIAL ADVERSE EVENT ...
40
       HEALTHCARE PROFESSIONAL REPORTED UNKNOWN SIDE ...
53
       FURTHER INFORMATION FROM THE REPORTER REGARDIN...
54
       PATIENT REPORTED UNKNOWN SIDE RUPTURE DEVICE R...
       IN RESPONSE TO FDA REPORT NUMBER MW5067421 THE...
81
       HEALTHCARE PROFESSIONAL REPORTED RIGHT SIDE SE...
82
       THIS EVENT IS A KNOWN POTENTIAL ADVERSE EVENT ...
91
92
       PATIENT REPORTED UNKNOWN SIDE LEAKING IMPLANT ...
       ALLERGAN IS UNABLE TO CONFIRM WITH THE HEALTHC...
119
       PATIENT REPORTED RIGHT SIDE RUPTURE ADDITIONAL...
120
138
       REPORTED EVENT OF A PATIENT WITH A LEFT SIDE Â...
       ARTICLE CITATION £CD30+ T CELLS IN LATE SEROM...
139
168
       PATIENT REPORTED LEFT SIDE LEAK ADDITIONALLY H...
       THIS EVENT IS A KNOWN POTENTIAL ADVERSE EVENT ...
169
       FDA REPORTS £THE FDA HAS RECEIVED A TOTAL OF ...
249
250
       THIS REPORT IS SUBMITTED IN RESPONSE TO FDA NO...
262
       THE DEVICE REMAINS IMPLANTED FURTHER INFORMATI...
       HEALTHCARE PROFESSIONAL REPORTED LEFT SIDE RUP...
263
```

```
286
      HEALTH PROFESSIONAL REPORTED METASTASES TO LYM...
287
      FURTHER INFORMATION FROM THE REPORTER REGARDIN...
288
      HEALTHCARE PROFESSIONAL REPORTED UNKNOWN SIDE ...
289
      THIS EVENT IS A KNOWN POTENTIAL ADVERSE EVENT ...
      THIS EVENT IS A KNOWN POTENTIAL ADVERSE EVENT ...
402
403
      HEALTH PROFESSIONAL REPORTED LEFT SIDE DEVICE ...
460
      I DO NOT KNOW THE EXACT DATES OFF HAND HOWEVER...
      I DO NOT KNOW THE EXACT DATES OFF HAND HOWEVER...
461
466
      HEALTHCARE PROFESSIONAL REPORTED RIGHT SIDE AL...
      I REPLACED MY MENTOR SILICONE IMPLANTS THAT WE...
27903
27904
     I REPLACED MY MENTOR SILICONE IMPLANTS THAT WE...
27905 ABSTRACT OF LITERATURE ARTICLE £BREAST IMPLAN...
27906
     £BREAST IMPLANT-ASSOCIATED ANAPLASTIC LARGE C...
      REPORTED EVENTS ARE ADDRESSED IN DEVICE LABELI...
27907
27908 ARTICLE £BREAST IMPLANT-ASSOCIATED ANAPLASTIC...
27911 BREAST IMPLANT SILICONE SHELL HAS SECRETED CHE...
27922 RESEARCH ARTICLE GEL BLEED AND RUPTURE OF SILI...
27923 ARTICLE CITATION KAPPEL RM BOER LL DIJKMAN H 2...
27940 I HAD GOTTEN SILICONE IMPLANTS 2 YEARS AGO B6 ...
27941 I HAD GOTTEN SILICONE IMPLANTS 2 YEARS AGO B6 ...
27959 MEDWATCH SENT TO THE FDA ON 06032016 LITERATUR...
27960 THE FOLLOWING JOURNAL ARTICLE WAS REVIEWED BRE...
28025 I HAD TO HAVE A DOUBLE MASTECTOMY IN 1997 AND ...
28026 I HAD TO HAVE A DOUBLE MASTECTOMY IN 1997 AND ...
28027 I HAD TO HAVE A DOUBLE MASTECTOMY IN 1997 AND ...
28028 I HAD TO HAVE A DOUBLE MASTECTOMY IN 1997 AND ...
28029 I HAD TO HAVE A DOUBLE MASTECTOMY IN 1997 AND ...
28030 I HAD TO HAVE A DOUBLE MASTECTOMY IN 1997 AND ...
28037 I HAD MENTOR SALINE IMPLANTS PUT IN IN 2005 MY...
28038 I HAD MENTOR SALINE IMPLANTS PUT IN IN 2005 MY...
28052 AT THE AGE OF B6 I HAD BREAST IMPLANTS IN THEN...
28053 AT THE AGE OF B6 I HAD BREAST IMPLANTS IN THEN...
28212 HAD 10 YEAR SALINE IMPLANTS REMOVED AND MENTOR...
28213 HAD 10 YEAR SALINE IMPLANTS REMOVED AND MENTOR...
28219 ARTICLE £Â£BREAST IMPLANT-ASSOCIATED ANAPLAST...
28220 ARTICLE CITATION Â&BREAST IMPLANT-ASSOCIATED A...
28224 THOUSANDS OF KNOWN WOMEN ARE SICK FROM A SILIC...
28234 SWITCHED OUT SILICONE BREAST IMPLANTS FOR SALI...
28235 SWITCHED OUT SILICONE BREAST IMPLANTS FOR SALI...
      ALLEGIANCE HEALTHCARE NAGOR MEDICAL ENGINEERING
30
                                  0
                           0
                                                       0
                           0
                                  0
                                                       0
31
32
                           0
                                  0
                                                       0
39
                           0
                                  0
40
                           0
                                  0
53
                                  0
```

54	0	0	0
81	0	0	0
82	0	0	0
91	0	0	0
92	0	0	0
119	0	0	0
120	0	0	0
138	0	0	0
139	0	0	0
168	0	0	0
169	0	0	0
249	0	0	0
250	0	0	0
262	0	0	0
263	0	0	0
286	0	0	0
287	0	0	0
288	0	0	0
289	0	0	0
402	0	0	0
403	0	0	0
460	0	0	0
461	0	0	0
466	0	0	0
27903	0	0	0
27904	0	0	0
27905	0	0	0
27906	0	0	0
27907	0	0	0
27908	0	0	0
27911	0	0	0
27922	0	0	0
27923	0	0	0
27940	0	0	0
27941	0	0	0
27959	0	0	0
27960	0	0	0
28025	0	0	0
28026	0	0	0
28027	0	0	0
28028	0	0	0
28029	0	0	0
28030	0	0	0
28037	0	0	0
28038	0	0	0
28052	0	0	0
28053	0	0	0

28212		0	0			0	
28213 28219		0 0	0 0			0	
28220		0	0			0	
28224		0	0			0	
28234		0	0			0	
28235		0	0			0	
20200		Ŭ	v			·	
	COX-UPHOFF	INTERNATIONAL	POLY	IMPLANT	PROTHESE		\
30		0			0		·
31		0			0		
32		0			0		
39		0			0		
40		0			0		
53		0			0		
54		0			0		
81		0			0		
82		0			0		
91		0			0		
92		0			0		
119		0			0		
120		0			0		
138		0			0		
139		0			0	• • •	
168		0			0	• • •	
169		0			0	• • •	
249		0			0	• • •	
250 262		0			0	• • •	
262 263		0			0	• • •	
286		0			0	• • •	
287		0			0	•••	
288		0			0	• • •	
289		0			0		
402		0			0		
403		0			0		
460		0			0		
461		0			0		
466		0			0		
27903		0			0		
27904		0			0		
27905		0			0		
27906		0			0		
27907		0			0		
27908		0			0	• • •	
27911		0			0	• • •	

27923			0				0	•	
27940			0				0	•	
27941			0				0		
27959			0				0	•	
27960			0				0		
28025			0				0		
28026			0				0		
28027			0				0		
28028			0				0		
28029			0				0		
28030			0				0	•	
28037			0				0	•	
28038			0				0	•	
28052			0				0	•	
28053			0				0	•	
28212			0				0	•	
28213			0				0	•	
28219			0				0	•	
28220			0				0	•	
28224			0				0	•	
28234			0				0	•	
28235			0				Λ	•	
20233			U				0	•	
	seroma	effusion	fluid	edema	leak	redness	tenderness	erythema	\
30	Seroma 0	0	0	0	0	0	0	or y thema	`
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	
40	0	0	0	0	0	0	0	0	
53	0	0	0	0	0	0	0	0	
54	0	0	0	0	0	0	0	0	
81	1	0	1	0	0	0	0	0	
82	1	0	1	0	0	0	0	0	
91	0	0	0	0	0	0	0		
92	0	0	0	0	0	0	0	0	
119	0	0	0			0	0	0	
120	0	0	0	0	0	0	0	0	
				0	0				
138	1	0	0	0	0	0	0	0	
139	1	0	0	0	0	0	0	0	
168	0	0	0	0	1	0	0	0	
169	0	0	0	0	1	0	0	0	
249	1	0	1	0	0	0	0	0	
250	1	0	1	0	0	0	0	0	
262	0	0	0	0	0	0	0	0	
263	0	0	0	0	0	0	0	0	
286	0	0	0	0	0	0	0	0	
287	0	0	0	0	0	0	0	0	
288	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
403	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
466	1	0	1	1	0	0	0	0
27903	0	0	0	0	0	0	0	0
27904	0	0	0	0	0	0	0	0
27905	1	0	0	0	0	0	0	1
27906	1	0	0	0	0	0	0	1
27907	1	0	0	0	0	0	0	1
27908	1	0	0	0	0	0	0	1
27911	0	0	0	0	0	0	0	0
27922	0	0	0	0	0	0	0	0
27923	0	0	0	0	0	0	0	0
27940	0	0	0	0	1	0	0	0
27941	0	0	0	0	1	0	0	0
27959	0	0	1	0	0	0	0	0
27960	0	0	1	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
28219	1	0	0	0	0	0	0	0
28220	1	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

	asymmetry	breast	enlargement
30	0		0
31	0		0
32	0		0
39	0		0
40	0		0
53	1		0
54	1		0
81	0		0
82	0		0

91	0	0
92	0	0
119	1	0
120	1	0
138	1	0
139	1	0
168	0	0
169	0	0
249	1	0
250	1	0
262	0	0
263	0	0
286	0	0
287	0	0
288	0	0
289	0	0
402	0	0
403	0	0
460	0	0
461	0	0
466	1	0
27903	0	0
27904	0	0
27905	0	0
27906	0	0
27907	0	0
27908	0	0
27911	0	0
27922	0	0
27923	0	0
27940	0	0
27941	0	0
27959	1	0
27960	1	0
28025	0	0
28026	0	0
28027	0	0
28028	0	0
28029	0	0
28030	0	0
28037	0	0
28038	0	0
28052	0	0
28053	0	0
28212	0	0
28213	0	0
28219	0	0

```
      28220
      0
      0

      28224
      0
      0

      28234
      0
      0

      28235
      0
      0
```

[1295 rows x 85 columns]

Is there smooth and textured at the same time?

Out[8]:	MDR_REPORT_KEY	MANUFACTURER_D_NAME
249	6498449	UNKNOWN MANUFACTURER
250	6498449	UNKNOWN MANUFACTURER
462	6567310	ALLERGAN (COSTA RICA)
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	*
25236	2162357	ALLERGAN
25237	2162357	ALLERGAN
25293	2027271	UNK
25412	2025987	ALLERGAN
25413	2025987	ALLERGAN
25512	2210596	ALLERGAN
25513	2210596	ALLERGAN
25555	2612780	ALLERGAN
25556	2612780	ALLERGAN
25667	2578247	ALLERGAN
25668	2578247	ALLERGAN
25732	2645572	ALLERGAN
25733	2645572	ALLERGAN
26554	4207226	ALLERGAN
27655	5761253	ALLERGAN
28114	5525702	ALLERGAN

20110	0020102 REELIGAN	
	BRAND_NAME	\
249	UNK MAMMARY IMPLANT	\
249 250	UNK MAMMARY IMPLANT	
	STYLE 410 COHESIVE SILICONE GEL FILLED BREAST	
	STYLE 410 COHESIVE SILICONE GEL FILLED BREAST	
463 514	BREAST IMPLANT SILICONE STYLE 120 600CC	
515 576	MENTOR SMOOTH ROUND PLUS STYLE, 1000 700CC SMOOTH SALINE BREAST IMPLANTS	
576 577	SMOOTH SALINE BREAST IMPLANTS SMOOTH SALINE BREAST IMPLANTS	
1278	SALINE TEXTURED BREAST IMPLANT	
1276	SALINE TEXTURED BREAST IMPLANT SALINE TEXTURED BREAST IMPLANT	
1279	SILTEX SALINE FILLED MAMMARY PROSTHESIS	
1281	SILTEX SALINE FILLED MAMMARY PROSTHESIS	
1316	GEL BREAST IMPLANTS	
1317	GEL BREAST IMPLANTS GEL BREAST IMPLANTS	
15640		
	PIP, INC.	
17734	PIP, INC.	
17959	PIP, INC.	
24426 25236	MENTOR CTYLE 110 CILICONE CEL ELLED DEACT IMPLANT	
25236 25237	STYLE 110 SILICONE GEL FILLED BREAST IMPLANT STYLE 110 SILICONE GEL FILLED BREAST IMPLANT	
2523 <i>1</i> 25293		
25293 25412	UNK STYLE 20 SILICONE GEL FILLED BREAST IMPLANT	
25413	STYLE 20 SILICONE GEL FILLED BREAST IMPLANT	
25512 25513	UNK MAMMARY IMPLANT	
25555	UNK MAMMARY IMPLANT UNK SALINE IMPLANT	
25556	UNK SALINE IMPLANT	
25667	STYLE 468 SALINE FILLED BREAST IMPLANT	
25668	STYLE 468 SALINE FILLED BREAST IMPLANT	
25732	STYLE 400 SALINE FILLED BREAST IMPLANT	
25732	STYLE 110 SILICONE GEL FILLED BREAST IMPLANT	
26554	COHESIVE GEL BREAST IMPLANT	
27655	NATRELLE TEXTURED BREAST IMPLANT	
28114	NATRELLE TEXTORED BREAST THE EART NATRELLE	
28115	NATURELLE	
20113	NATORELLE	
	GENERIC NAME	\
249	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE	`
250	PROSTHESIS, BREAST, INFLATABLE, INTERNAL, SALINE	
462	PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S	
463	PROSTHESIS, BREAST, NONINFLATABLE, INTERNAL, S	
514	BREAST IMPLANT	
514	BREAST IMPLANT	
576	SMOOTH SALINE BREAST IMPLANTS	
577	SMOOTH SALINE BREAST IMPLANTS SMOOTH SALINE BREAST IMPLANTS	
511	PRIORITY PARTINE DEFAUL TRIEFFUNTS	

ALLERGAN

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	
25236	nan	
25237	nan	
25293	SALINE BREAST IMPLANT	
25412	nan	
25413	nan	
25512	nan	
25513	nan	
25555	nan	
25556	nan	
25667	nan	
25668	nan	
25732	nan	
25733	nan	
26554	BREAST IMPLANT	
27655	BREAST IMPLANT	
28114	BREAST IMPLANTS	
28115	BREAST IMPLANTS	
20110	BIOLOGI III LIMID	
	FOI_TEXT	\
249	FDA REPORTS £THE FDA HAS RECEIVED A TOTAL OF	`
250	THIS REPORT IS SUBMITTED IN RESPONSE TO FDA NO	
462	ARTICLE CITATION £CD30+ T CELLS IN LATE SEROM	
463	REPORTED EVENT OF A PATIENT WITH A LEFT SIDE Â	
514	RIGHT OPEN CAPSULECTOMY AND IMPLANT REMOVAL WI	
515	RIGHT OPEN CAPSULECTOMY AND IMPLANT REMOVAL WI	
576	MENTOR COMBO GEL SILICONESALINE MAMMARY PROSTH	
577	MENTOR COMBO GEL SILICONESALINE MAMMARY PROSTH	
1278	I HAD A BREAST DEFORMITY AS A CHILDTEENAGER I	
1279		
1280		
1281		
1316	APPROX 7 YEARS AGO I HAD A BREAST AUGMENTATION	
1317		
15640	PT DEVELOPED CAPSULAR CONTRACTURE ON LEFT SIDE	
17734	LATERAL DISPLACEMENT OF THE SMOOTH IMPLANTS AN	
	LATERAL DISPLACEMENT OF THE SMOOTH IMPLANTS AN	
	IN 1992 I HAD CORPORATIONS TEXTURED SALINE BRE	
20200	B4 DEVICE LABELING ADDRESSES DEVICE LABELING A	

25237 25293 25412 25413 25512 25513 25555 25667 25668 25732 25733 26554 27655	A REPORT OF NULL-TYPE A B6 FEMALE DIAGNOSED HEALTH PROFESSIONAL IN MEDWATCH SUBMITTED ON RECEIVED ABSTRACT ENTI DEVICE LABELING ADDRES MEDWATCH SUBMITTED ON HEALTHCARE PROFESSIONA MED WATCH SUBMITTED ON ADDITIONAL INFORMATION MEDWATCH SUBMITTED ON HEALTH PROFESSIONAL RE I HAD 20 YEAR OLD MCGH I WAS DIAGNOSED WITH E	WITH BREAST JITIALLY REP 03172011 DE TLED PRIMAR SS THE EVENT B4 2012 DEV AL REPORTS V J B4 2012 DE J PROVIDED R 29JUNE2012 EPORTED RIGHT AN TEXTURED BREAST CANCE	-IMPLANT RELA DRTS PATIENT VICE LABELING OF B4 FOR PR ICE LABELING IA MAUDE REPO VICE LABELING ECEIVED FROM DEVICE LABELI I SIDE ANAPLA SALINE IMPLA R IN MY RIGHT
28114 28115	BREAST RECONSTRUCTION BREAST RECONSTRUCTION		
20110	ALLEGIANCE HEALTHCARE		I HAD ALLERGA
249	0	0	0
250	0	0	0
462	0	0	0
463	0	0	0
514	0	0	0
515	0	0	0
576	0	0	0
577	0	0	0
1278	0	0	0
1279	0	0	0
1279	·	-	-
	0	0	0
1281	0	0	0
1316	0	0	0
1317	0	0	0
15640	ŭ	0	ŭ
17734	0	0	0
17959	0	0	0
24426	0	0	0
25236	0	0	0
25237	0	0	0
25293	0	0	0
25412	0	0	0
25413	0	0	0
25512	0	0	0
25513	0	0	0
25555	0	0	0
25556	0	0	0
25667	0	0	0
25668	0	0	0
25732	0	0	0

25733			0	0			0		
26554			0	0			0		
27655			0	0			0		
28114			0	0			0		
28115			0	0			0		
28115			Ü	U			U		
	CUX-IIPH	OFF INTERN	ATTONAI.	POT.Y	TMPI.AN'	T PROTHESI	E		\
249	0011 01 11	.011 111121111	0	1021			0		`
250			0				0		
462			0				0		
463			0				0		
514			0				0		
515			0				0	•	
576			0				0	•	
577			0				0	•	
1278			0				0	•	
1279			0				0	•	
1280			0				0	•	
1281			0				0	•	
1316			0				0	•	
1317			0				0	•	
15640			0					•	
17734							0	•	
17734			0				0	•	
			0				0	•	
24426			0				0	•	
25236			0				0	•	
25237			0				0	•	
25293			0				0	•	
25412			0				0	•	
25413			0				0	•	
25512			0				0	•	
25513			0				0	•	
25555			0				0	•	
25556			0				0	•	
25667			0				0	•	
25668			0				0	•	
25732			0				0	•	
25733			0				0	•	
26554			0				0	•	
27655			0				0	•	
28114			0				0	•	
28115			0			(0	•	
	seroma	effusion	fluid	edema	leak	redness	tenderness	erythema	\
249	Seroma 1	0	1	0	0	0	0	ory chema	`
250	1	0	1	0	0	0	0	0	
462	1	0	0	0	0	0	0	0	
463	1	0	0	0	0	0	0	0	
1 03	1	U	U	U	U	U	U	U	

514	0	0	1	0	0	0	0	0
515	0	0	1	0	0	0	0	0
576	0	0	0	0	1	0	0	0
577	0	0	0	0	1	0	0	0
1278	0	0	1	0	0	0	0	0
1279	0	0	1	0	0	0	0	0
1280	0	0	1	0	0	0	0	0
1281	0	0	1	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
25236	1	0	1	0	0	0	0	0
25237	1	0	1	0	0	0	0	0
25293	1	0	0	0	0	0	0	0
25412	1	0	1	0	0	1	0	0
25413	1	0	1	0	0	1	0	0
25512	1	0	1	0	0	0	0	0
25513	1	0	1	0	0	0	0	0
25555	1	0	1	0	0	1	0	0
25556	1	0	1	0	0	1	0	0
25667	1	0	0	0	0	0	0	0
25668	1	0	0	0	0	0	0	0
25732	1	0	1	0	0	0	0	0
25733	1	0	1	0	0	0	0	0
26554	0	0	0	0	0	0	0	0
27655	0	0	1	0	0	0	0	0
28114	1	0	1	0	0	0	0	0
28115	1	0	1	0	0	0	0	0

	asymmetry	breast	enlargement
249	1		0
250	1		0
462	1		0
463	1		0
514	0		0
515	0		0
576	0		0
577	0		0
1278	0		0
1279	0		0
1280	0		0
1281	0		0
1316	0		0
1317	0		0
15640	0		0

0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0

[35 rows x 85 columns]

In []: