In [1]:
```
import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)
import os
```

In [2]:
```
# Visualisation libraries
import matplotlib.pyplot as plt
```

In [3]:
```
import seaborn as sns
sns.set()
from plotly.offline import init_notebook_mode, iplot
import plotly.graph_objs as go
import plotly.offline as py
import pycountry
py.init_notebook_mode(connected=True)
import folium
from folium import plugins


# Graphics in retina format
%config InlineBackend.figure_format = 'retina'

# Increase the default plot size and set the color scheme
plt.rcParams['figure.figsize'] = 8, 5
#plt.rcParams['image.cmap'] = 'viridis'

# palette  colors to be used for plots
colors = ["steelblue","dodgerblue","lightskyblue","powderblue","cyan","deepsky
blue","cyan","darkturquoise","paleturquoise","turquoise"]


# Disable warnings in Anaconda
import warnings
warnings.filterwarnings('ignore')
```

In [4]:
```
from pathlib import Path
```

In [5]:
```
from IPython.display import YouTubeVideo
YouTubeVideo('1Kyo9Hcyiq0', width=800, height=300)
```

Out[5]:

In [6]:
```
%pwd
```

Out[6]:
```
'C:\\Users\\Vikram'
```

In [7]:
```
os.chdir('D:\Kaggle\Pulmonary Fibrosis')
```

In [8]:
```
%pwd
```

Out[8]:
```
'D:\\Kaggle\\Pulmonary Fibrosis'
```

In [9]:
```
## Reading input and directory path

train = pd.read_csv('train.csv')
dataset_dir = 'D:\\Kaggle\\Pulmonary Fibrosis\\train'
```

In [10]:
```
train
```

Out[10]:

	Patient	Weeks	FVC	Percent	Age	Sex	SmokingStatus
0	ID00007637202177411956430	-4	2315	58.253649	79	Male	Ex-smoker
1	ID00007637202177411956430	5	2214	55.712129	79	Male	Ex-smoker
2	ID00007637202177411956430	7	2061	51.862104	79	Male	Ex-smoker
3	ID00007637202177411956430	9	2144	53.950679	79	Male	Ex-smoker
4	ID00007637202177411956430	11	2069	52.063412	79	Male	Ex-smoker
...	...	...	...	...	...	...	...
1544	ID00426637202313170790466	13	2712	66.594637	73	Male	Never smoked
1545	ID00426637202313170790466	19	2978	73.126412	73	Male	Never smoked
1546	ID00426637202313170790466	31	2908	71.407524	73	Male	Never smoked
1547	ID00426637202313170790466	43	2975	73.052745	73	Male	Never smoked
1548	ID00426637202313170790466	59	2774	68.117081	73	Male	Never smoked

1549 rows × 7 columns

In [95]:
```
test = pd.read_csv('test.csv')
```

In [96]:
```
test
```

Out[96]:

	Patient	Weeks	FVC	Percent	Age	Sex	SmokingStatus
0	ID00419637202311204720264	6	3020	70.186855	73	Male	Ex-smoker
1	ID00421637202311550012437	15	2739	82.045291	68	Male	Ex-smoker
2	ID00422637202311677017371	6	1930	76.672493	73	Male	Ex-smoker
3	ID00423637202312137826377	17	3294	79.258903	72	Male	Ex-smoker
4	ID00426637202313170790466	0	2925	71.824968	73	Male	Never smoked

In [13]:
```
## Reading test and train data

print('Train:\n',train.head(5),'\n')
print(train.isna().sum())
print('\n----------------------------------------------------------------------
------\n')
print('Test:\n',test.head(5),'\n')
print(test.isna().sum())
```

```
Train:
                      Patient  Weeks   FVC    Percent  Age   Sex SmokingStatu
s
0  ID00007637202177411956430     -4  2315  58.253649   79  Male     Ex-smoker
1  ID00007637202177411956430      5  2214  55.712129   79  Male     Ex-smoker
2  ID00007637202177411956430      7  2061  51.862104   79  Male     Ex-smoker
3  ID00007637202177411956430      9  2144  53.950679   79  Male     Ex-smoker
4  ID00007637202177411956430     11  2069  52.063412   79  Male     Ex-smoker

Patient          0
Weeks            0
FVC              0
Percent          0
Age              0
Sex              0
SmokingStatus    0
dtype: int64

----------------------------------------------------------------------------

Test:
                      Patient  Weeks   FVC    Percent  Age   Sex SmokingStatu
s
0  ID00419637202311204720264      6  3020  70.186855   73  Male     Ex-smoker
1  ID00421637202311550012437     15  2739  82.045291   68  Male     Ex-smoker
2  ID00422637202311677017371      6  1930  76.672493   73  Male     Ex-smoker
3  ID00423637202312137826377     17  3294  79.258903   72  Male     Ex-smoker
4  ID00426637202313170790466      0  2925  71.824968   73  Male  Never smoked

Patient          0
Weeks            0
FVC              0
Percent          0
Age              0
Sex              0
SmokingStatus    0
dtype: int64
```

In [14]:
```
train.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1549 entries, 0 to 1548
Data columns (total 7 columns):
 #   Column         Non-Null Count  Dtype  
---  ------         --------------  -----  
 0   Patient        1549 non-null   object 
 1   Weeks          1549 non-null   int64  
 2   FVC            1549 non-null   int64  
 3   Percent        1549 non-null   float64
 4   Age            1549 non-null   int64  
 5   Sex            1549 non-null   object 
 6   SmokingStatus  1549 non-null   object 
dtypes: float64(1), int64(3), object(3)
memory usage: 84.8+ KB
```

In [15]:
```
train.describe()
```

Out[15]:

	Weeks	FVC	Percent	Age
count	1549.000000	1549.000000	1549.000000	1549.000000
mean	31.861846	2690.479019	77.672654	67.188509
std	23.247550	832.770959	19.823261	7.057395
min	-5.000000	827.000000	28.877577	49.000000
25%	12.000000	2109.000000	62.832700	63.000000
50%	28.000000	2641.000000	75.676937	68.000000
75%	47.000000	3171.000000	88.621065	72.000000
max	133.000000	6399.000000	153.145378	88.000000

In [16]:
```
dataset_dir
```

Out[16]:
```
'D:\\Kaggle\\Pulmonary Fibrosis\\train'
```

In [17]:
```
train.shape[0]
```

Out[17]:
```
1549
```

In [18]:
```
test.shape[0]
```

Out[18]:
```
5
```

In [19]:
```
INPUT = Path("D:/Kaggle/Pulmonary Fibrosis/train")
```

In [20]:
```
INPUT
```

Out[20]:
```
WindowsPath('D:/Kaggle/Pulmonary Fibrosis/train')
```

In [21]:
```
train.Patient.agg(['nunique','count'])
```

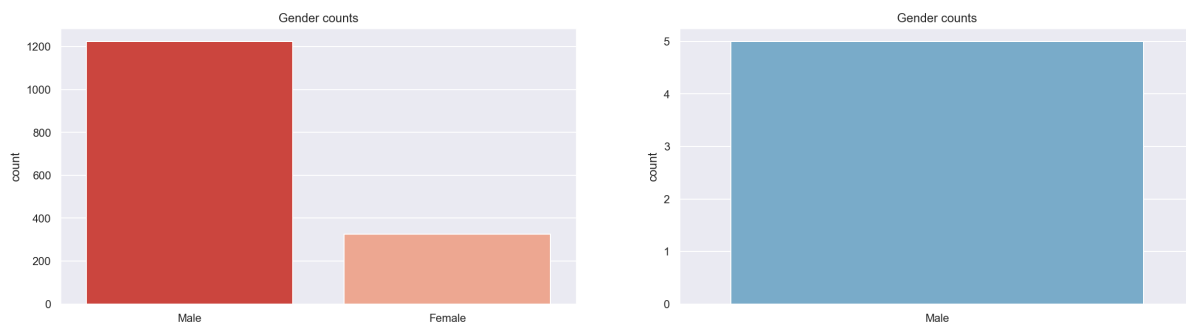
Out[21]:
```
nunique     176
count      1549
Name: Patient, dtype: int64
```

In [22]:
```
test.Patient.agg(['nunique','count'])
```

Out[22]:
```
nunique    5
count      5
Name: Patient, dtype: int64
```

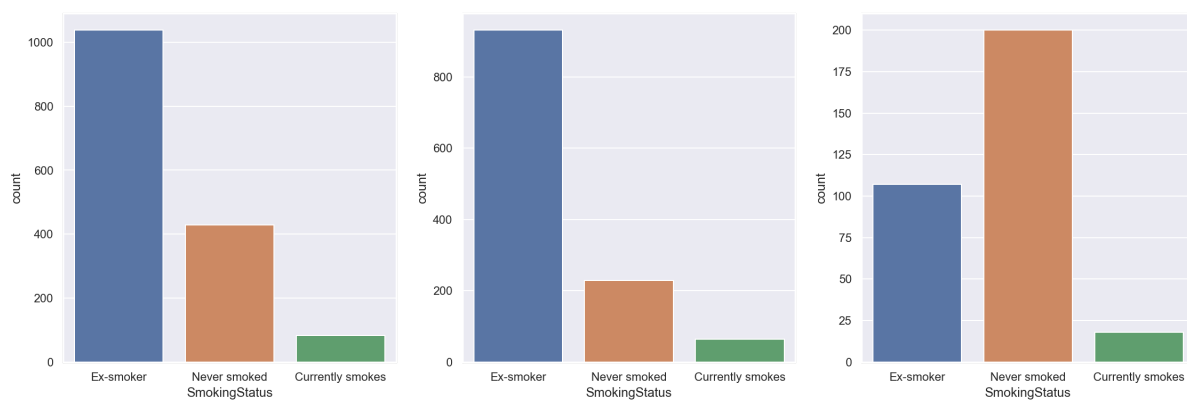
In [23]:
```
fig, ax = plt.subplots(1,2,figsize=(20,5))
sns.countplot(train.Sex, palette="Reds_r", ax=ax[0]);
ax[0].set_xlabel("")
ax[0].set_title("Gender counts");

sns.countplot(test.Sex, palette="Blues_r", ax=ax[1]);
ax[1].set_xlabel("")
ax[1].set_title("Gender counts");
```



In [24]:
```
%matplotlib inline
```

In [25]:
```
fig, axs = plt.subplots(ncols=3)
fig.set_size_inches(19,6)
sns.countplot(train['SmokingStatus'],ax=axs[0])
sns.countplot(train['SmokingStatus'][train['Sex']=="Male"],ax=axs[1])
sns.countplot(train['SmokingStatus'][train['Sex']=="Female"],ax=axs[2])
fig.savefig("output2.jpeg")
```

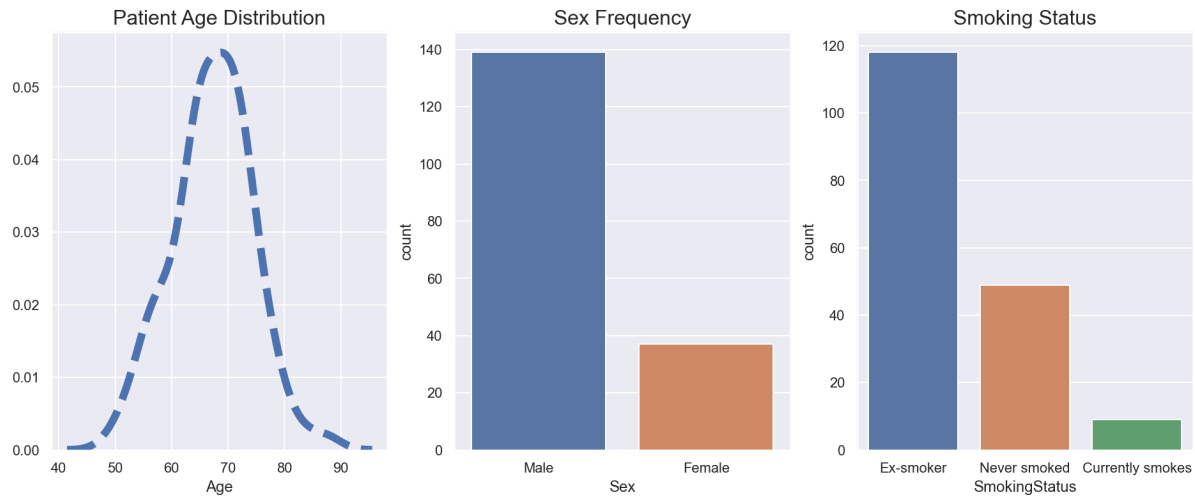


In [26]:
```
# Select unique bio info for the patients
agg_train = train.groupby(by="Patient")[["Patient", "Age", "Sex", "SmokingStat
us"]].first().reset_index(drop=True)

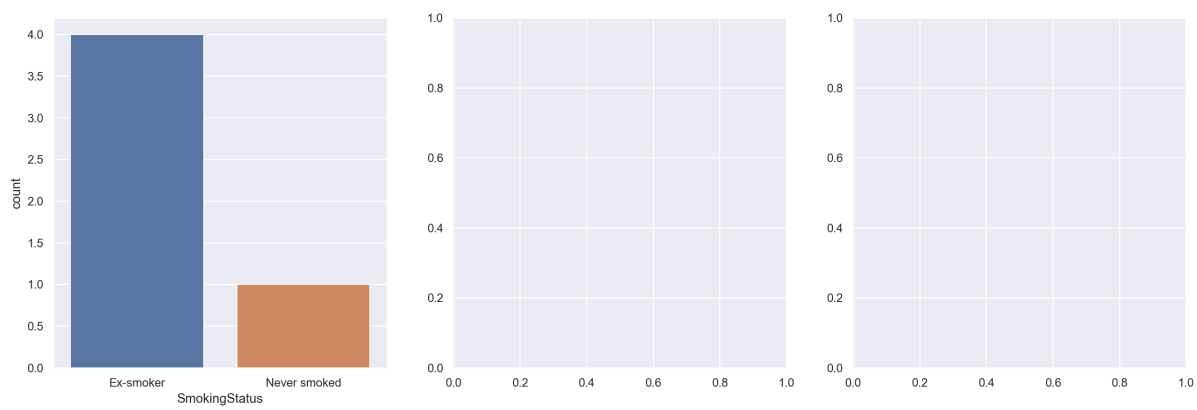
# Figure
f, (ax1, ax2, ax3) = plt.subplots(1, 3, figsize = (16, 6))

a = sns.distplot(agg_train["Age"], ax=ax1, hist=False, kde_kws=dict(lw=6, ls=
"--"))
b = sns.countplot(agg_train["Sex"], ax=ax2)
c = sns.countplot(agg_train["SmokingStatus"], ax=ax3)

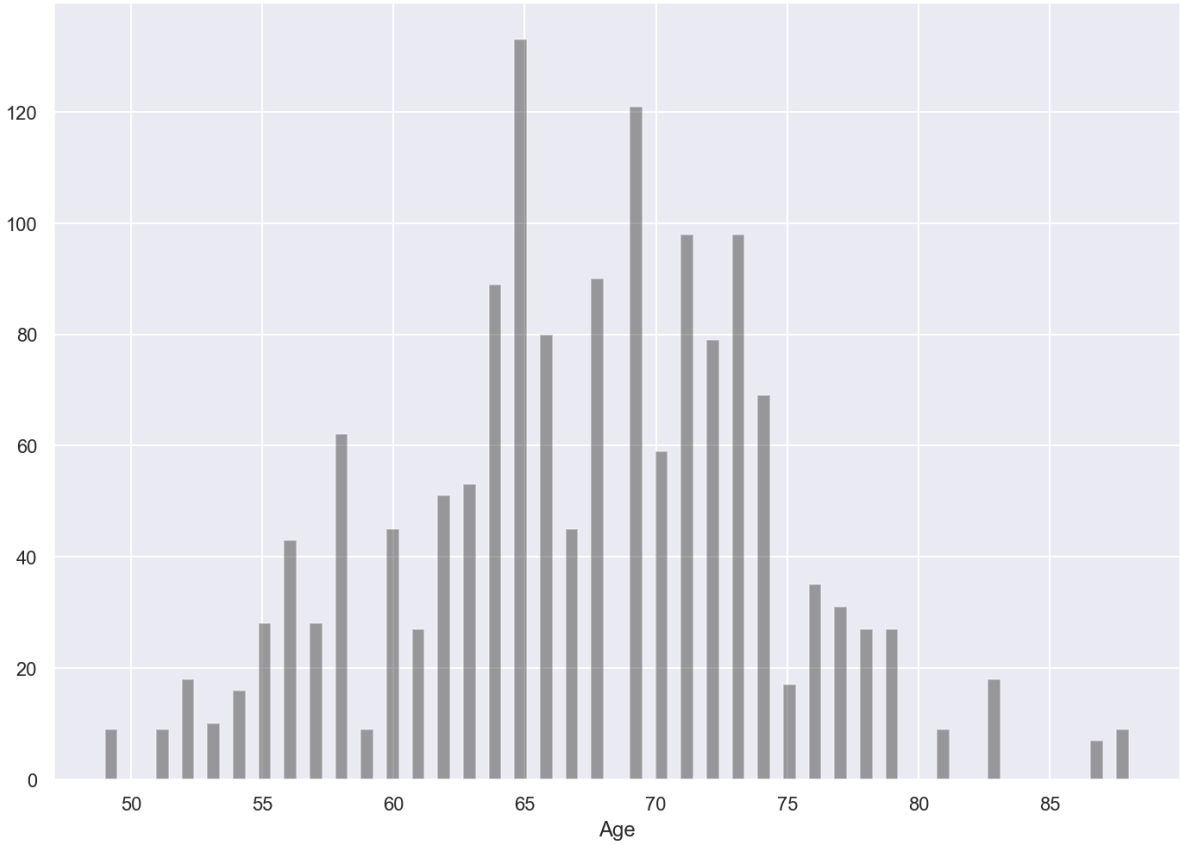
a.set_title("Patient Age Distribution", fontsize=16)
b.set_title("Sex Frequency", fontsize=16)
c.set_title("Smoking Status", fontsize=16);
```



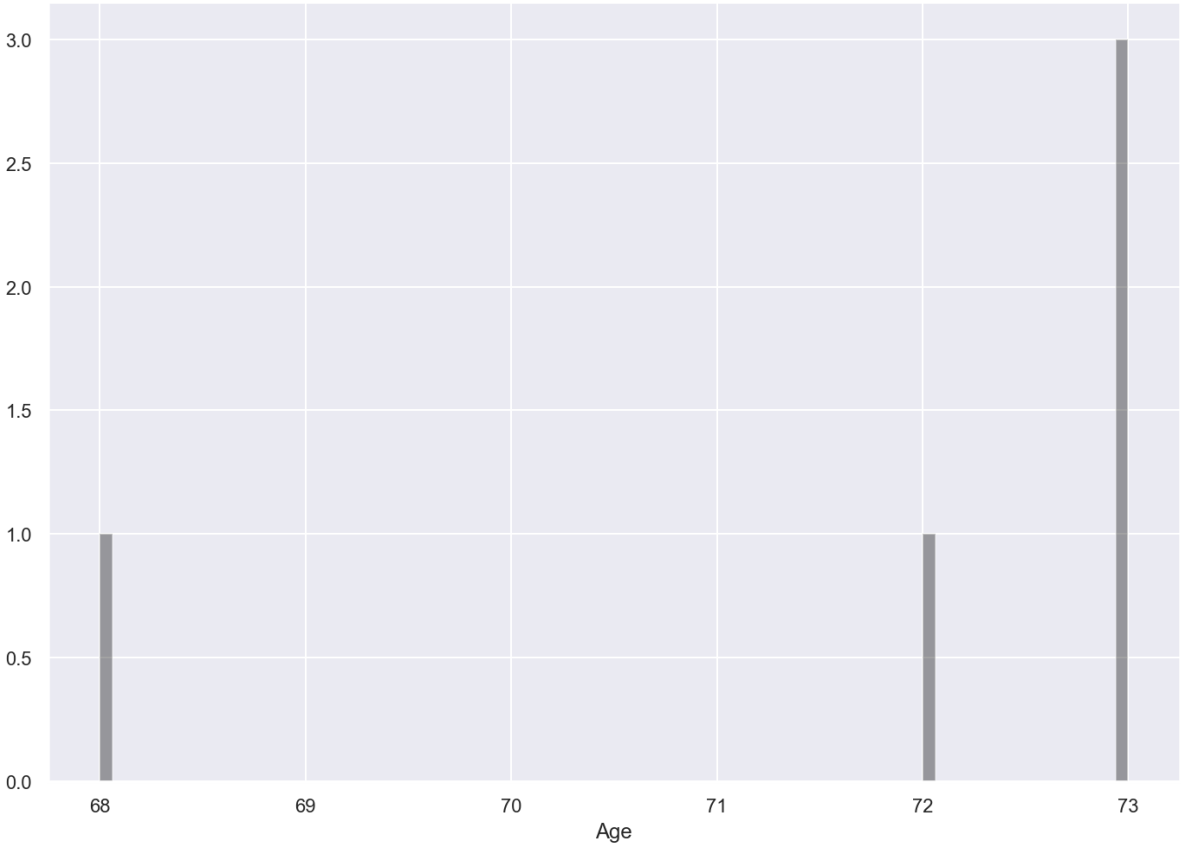
In [27]:
```
fig, axs = plt.subplots(ncols=3)
fig.set_size_inches(19,6)
sns.countplot(test['SmokingStatus'],ax=axs[0])
fig.savefig("output3.jpeg")
```



In [28]:
```
fig, ax = plt.subplots()
fig.set_size_inches(11.7, 8.27)
sns.distplot(train.Age,kde=False,bins=80,color="k")
fig.savefig("output4.jpeg")
```



In [29]:
```
fig, ax = plt.subplots()
fig.set_size_inches(11.7, 8.27)
sns.distplot(test.Age,kde=False,bins=80,color="k")
fig.savefig("output5.jpeg")
```



In [30]:
```
print("Min FVC value: {:,}".format(train["FVC"].min()), "\n" +
      "Max FVC value: {:,}".format(train["FVC"].max()), "\n" +
      "\n" +
      "Min Percent value: {:.4}%".format(train["Percent"].min()), "\n" +
      "Max Percent value: {:.4}%".format(train["Percent"].max()))

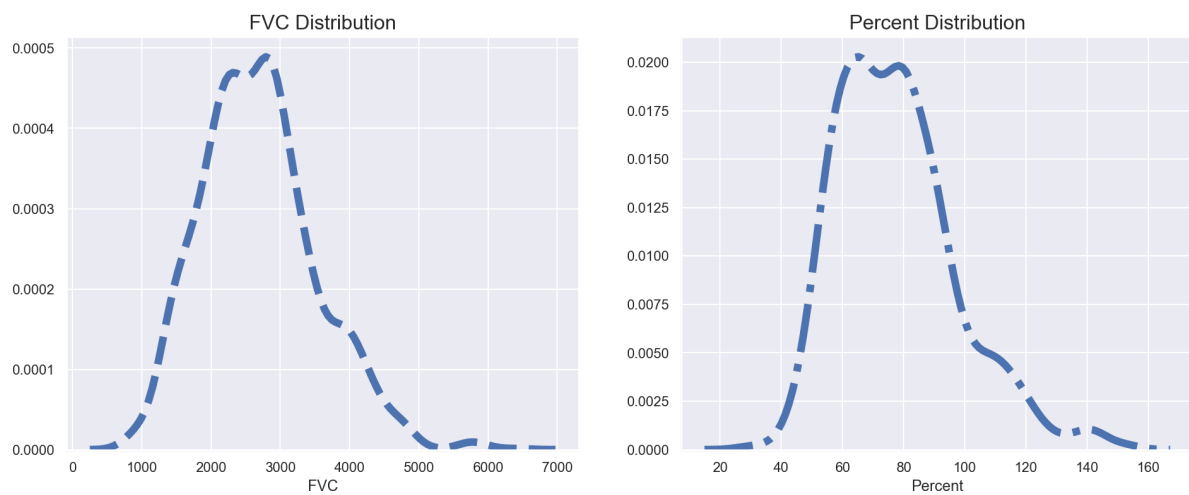
# Figure
f, (ax1, ax2) = plt.subplots(1, 2, figsize = (16, 6))

a = sns.distplot(train["FVC"], ax=ax1, hist=False, kde_kws=dict(lw=6, ls="--"
))
b = sns.distplot(train["Percent"], ax=ax2, hist=False, kde_kws=dict(lw=6, ls=
"-."))

a.set_title("FVC Distribution", fontsize=16)
b.set_title("Percent Distribution", fontsize=16);
```

```
Min FVC value: 827
Max FVC value: 6,399

Min Percent value: 28.88%
Max Percent value: 153.1%
```

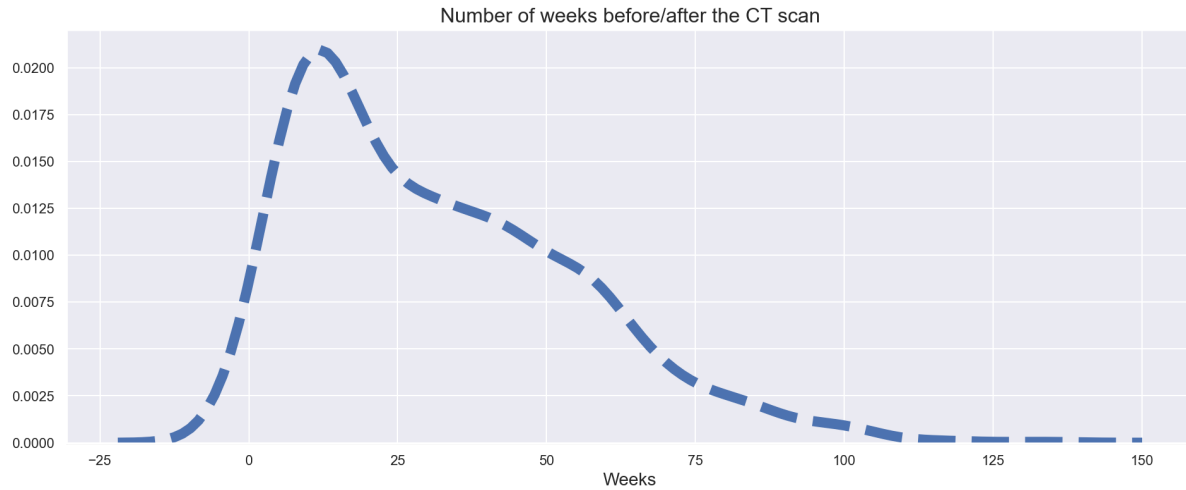


In [31]:
```
print("Minimum no. weeks before CT: {}".format(train['Weeks'].min()), "\n" +
      "Maximum no. weeks after CT: {}".format(train['Weeks'].max()))

plt.figure(figsize = (16, 6))

a = sns.distplot(train['Weeks'], hist=False, kde_kws=dict(lw=8, ls="--"))
plt.title("Number of weeks before/after the CT scan", fontsize = 16)
plt.xlabel("Weeks", fontsize=14);
```

```
Minimum no. weeks before CT: -5
Maximum no. weeks after CT: 133
```



In [32]:
```
def create_baseline():
    first_scan=pd.DataFrame()
    for i in train.Patient.unique():
        first_scan=first_scan.append((train[train['Patient']=="{}".format(i)]
[:1]))
    first_scan=first_scan.drop("Patient",axis=1)
    first_scan=first_scan.drop("Weeks",axis=1)
    return first_scan
fc=create_baseline()
fc=fc.reset_index(drop=True)
fc.head()
```

Out[32]:

	FVC	Percent	Age	Sex	SmokingStatus
0	2315	58.253649	79	Male	Ex-smoker
1	3660	85.282878	69	Male	Ex-smoker
2	3523	94.724672	60	Male	Ex-smoker
3	3326	85.987590	72	Male	Ex-smoker
4	3418	93.726006	65	Male	Never smoked

In [33]:
```
fc
```

Out[33]:

	FVC	Percent	Age	Sex	SmokingStatus
0	2315	58.253649	79	Male	Ex-smoker
1	3660	85.282878	69	Male	Ex-smoker
2	3523	94.724672	60	Male	Ex-smoker
3	3326	85.987590	72	Male	Ex-smoker
4	3418	93.726006	65	Male	Never smoked
...	...	...	...	...	...
171	3020	70.186855	73	Male	Ex-smoker
172	2739	82.045291	68	Male	Ex-smoker
173	1930	76.672493	73	Male	Ex-smoker
174	3294	79.258903	72	Male	Ex-smoker
175	2925	71.824968	73	Male	Never smoked

176 rows × 5 columns

In [34]:
```
(sns.pairplot(train,hue="SmokingStatus",height=4)).savefig("output5.jpeg")
```

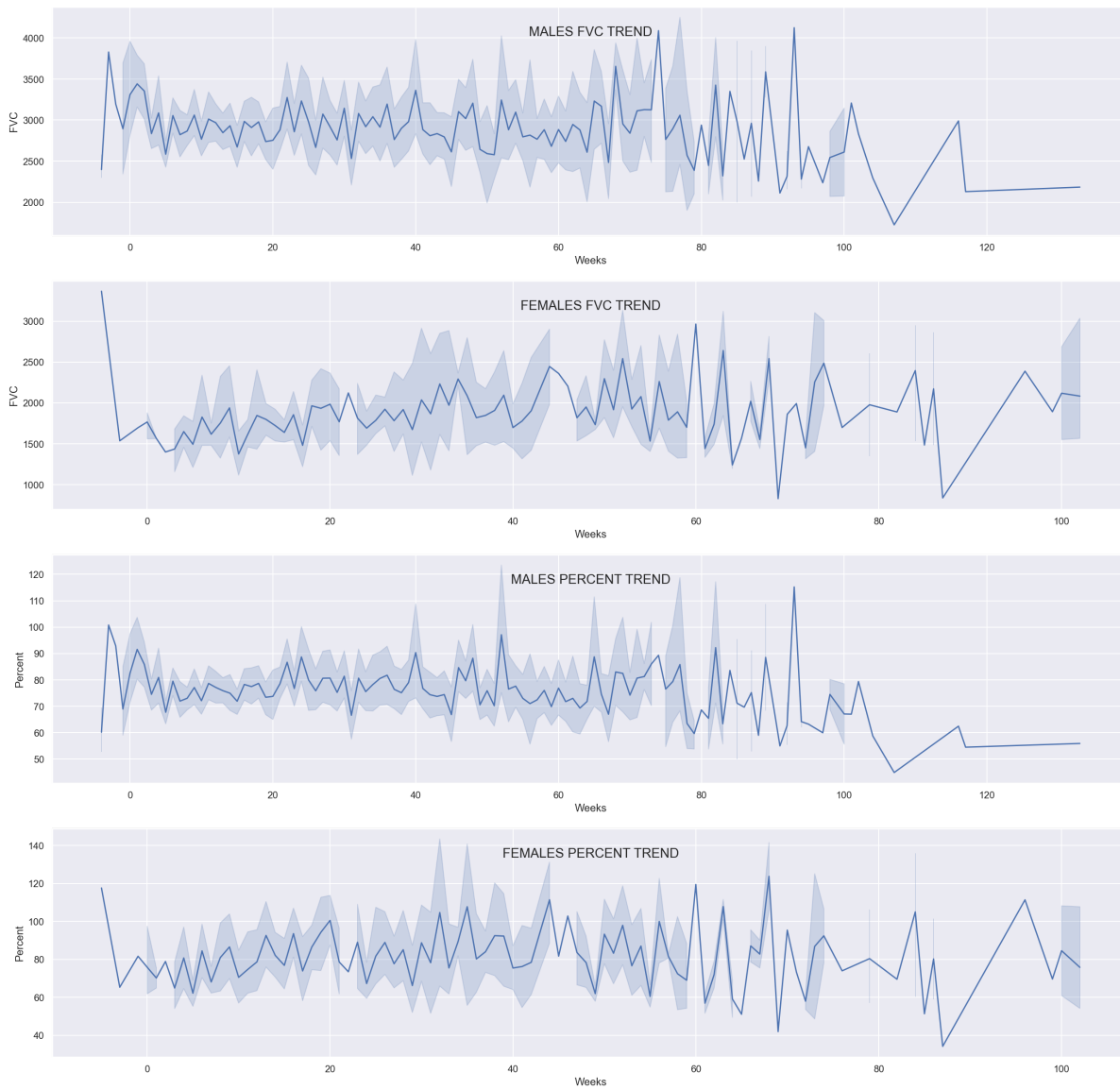
In [35]:
```
sns.pairplot(fc,hue="SmokingStatus",height=4).savefig("output6.jpeg")
```

In [36]:
```
fig, ax = plt.subplots(nrows=2)
fig.set_size_inches(22, 8.27)
sns.lineplot(x='Weeks',y='Percent',data=train,ax=ax[0]).set_title("All Patient
s Percent trend",fontsize=15,y=0.85)
sns.lineplot(x='Weeks',y='FVC',data=train,ax=ax[1]).set_title("All Patients FV
C trend",fontsize=15,y=0.85)
fig.savefig("weeksfvccomp.jpeg")
```

In [37]:
```
# FVC and Percent trend Males vs Females

males=train[train["Sex"]=="Male"]
females=train[train["Sex"]=="Female"]
```

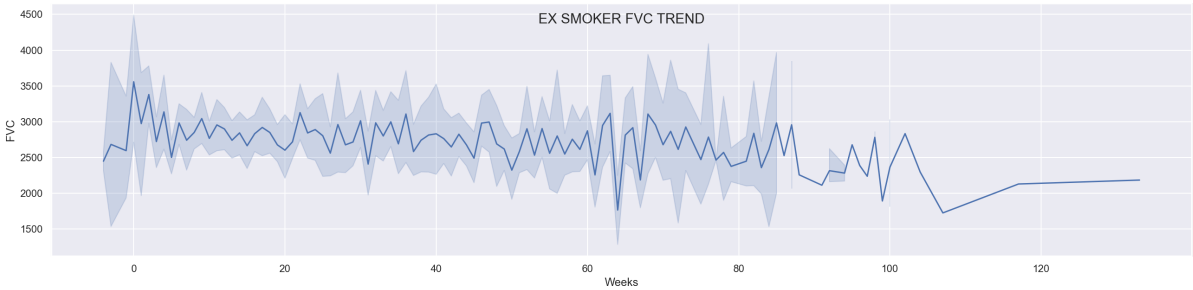
In [38]:
```
fig, ax = plt.subplots(nrows=4)
fig.set_size_inches(22, 22)
sns.lineplot(x='Weeks',y='FVC',data=males,ax=ax[0]).set_title("MALES FVC TREN
D", fontsize=15,y=0.85)
sns.lineplot(x='Weeks',y='FVC',data=females,ax=ax[1]).set_title("FEMALES FVC T
REND", fontsize=15,y=0.85)
sns.lineplot(x='Weeks',y='Percent',data=males,ax=ax[2]).set_title("MALES PERCE
NT TREND", fontsize=15,y=0.85)
sns.lineplot(x='Weeks',y='Percent',data=females,ax=ax[3]).set_title("FEMALES P
ERCENT TREND", fontsize=15,y=0.85)
fig.savefig("malevsfemalesfvc_percenttrend.jpeg")
```

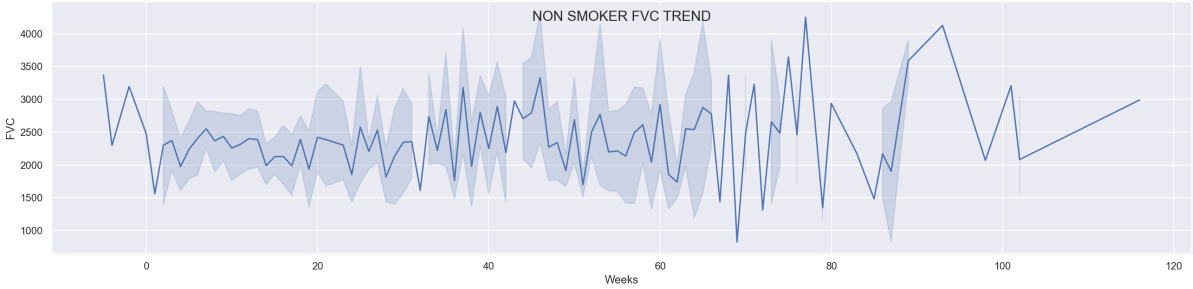


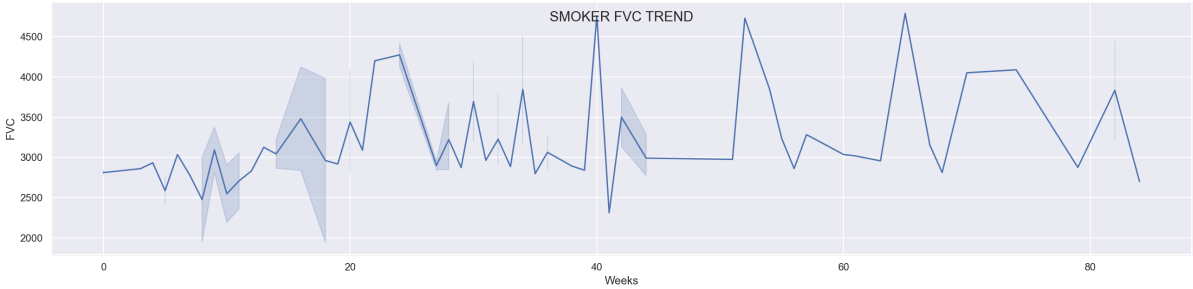
In [39]:
```
# FVC and Percent trend Smokers vs nonsmokers for all patients

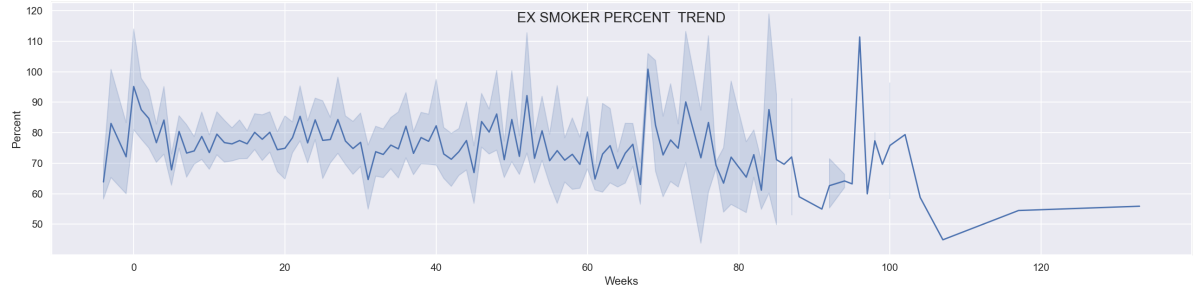
smoker=train[train["SmokingStatus"]=="Ex-smoker"]
never_smoked=train[train["SmokingStatus"]=="Never smoked"]
current_smoker=train[train["SmokingStatus"]=="Currently smokes"]
```

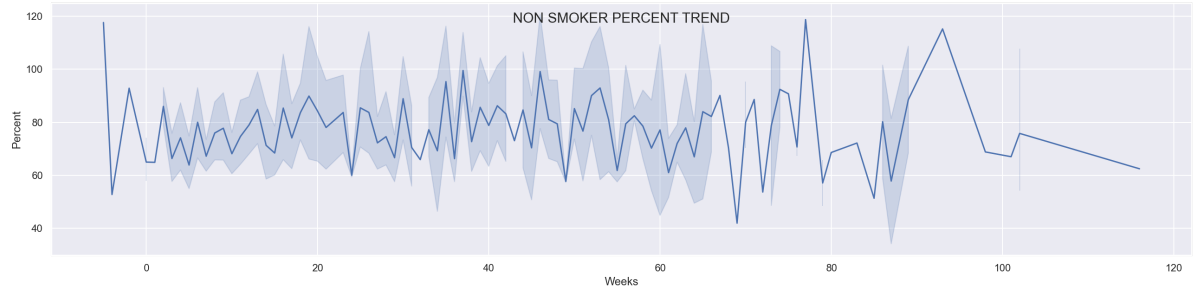
In [40]:
```
fig, ax = plt.subplots(nrows=6)
fig.set_size_inches(22, 35)
sns.lineplot(x='Weeks',y='FVC',data=smoker,ax=ax[0]).set_title("EX SMOKER FVC
 TREND",fontsize=15,y=0.90)
sns.lineplot(x='Weeks',y='FVC',data=never_smoked,ax=ax[1]).set_title("NON SMOK
ER FVC TREND",fontsize=15,y=0.90)
sns.lineplot(x='Weeks',y='FVC',data=current_smoker,ax=ax[2]).set_title("SMOKER
FVC TREND",fontsize=15,y=0.90)
sns.lineplot(x='Weeks',y='Percent',data=smoker,ax=ax[3]).set_title("EX SMOKER
 PERCENT  TREND",fontsize=15,y=0.90)
sns.lineplot(x='Weeks',y='Percent',data=never_smoked,ax=ax[4]).set_title("NON
 SMOKER PERCENT TREND",fontsize=15,y=0.90)
sns.lineplot(x='Weeks',y='Percent',data=current_smoker,ax=ax[5]).set_title("SM
OKER PERCENT TREND",fontsize=15,y=0.90)
fig.savefig("weeksvpercent_smokervsnonsmoker.jpeg")
```

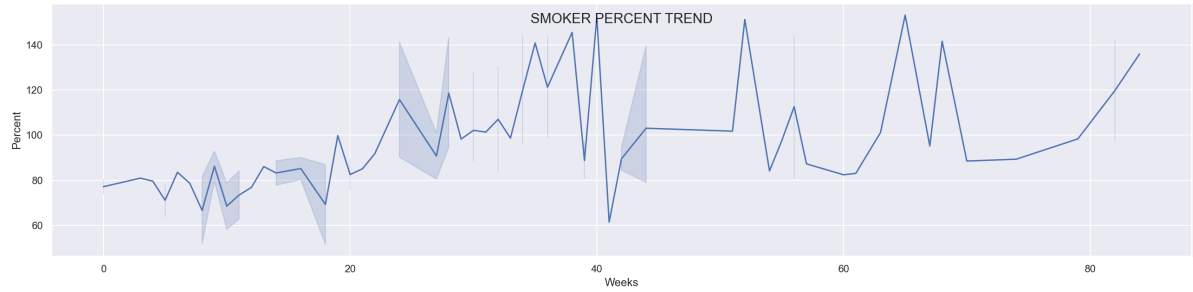

EX SMOKER FVC TREND
FVC
Weeks


NON SMOKER FVC TREND
FVC
Weeks


SMOKER FVC TREND
FVC
Weeks


EX SMOKER PERCENT TREND
Percent
Weeks


NON SMOKER PERCENT TREND
Percent
Weeks


SMOKER PERCENT TREND
Percent
Weeks

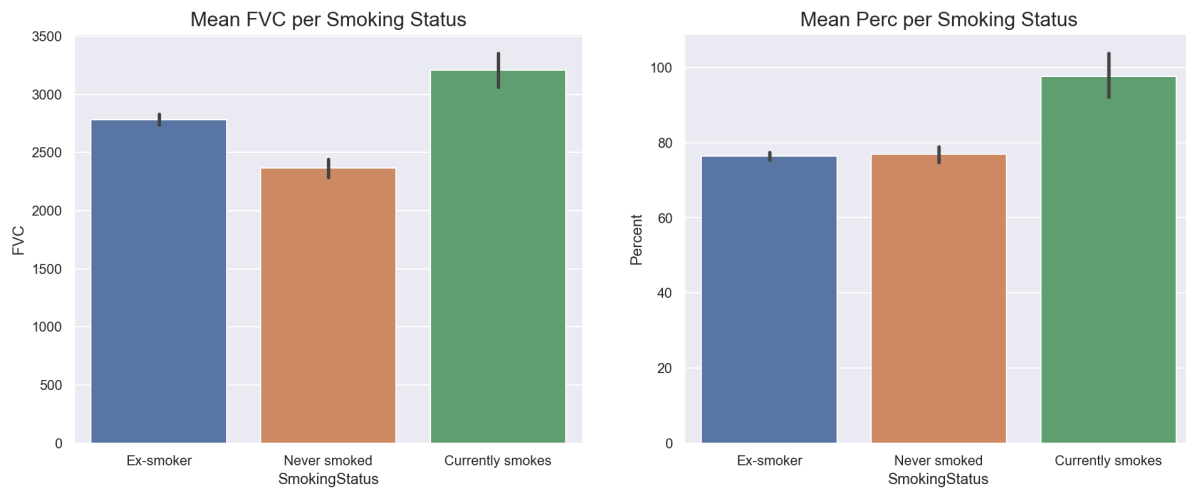
In [41]:
```
# creating Age-Bins in train data

category = pd.cut(train.Age,bins = [49,55,65,75,85,120],labels=['<=55','56-65'
,'66-75','76-85','85+'])
train.insert(5,'Age_Bins',category)
```

In [42]:
```
f, (ax1, ax2) = plt.subplots(1,2, figsize = (16, 6))

a = sns.barplot(x = train["SmokingStatus"], y = train["FVC"], ax=ax1)
b = sns.barplot(x = train["SmokingStatus"], y = train["Percent"], ax=ax2)

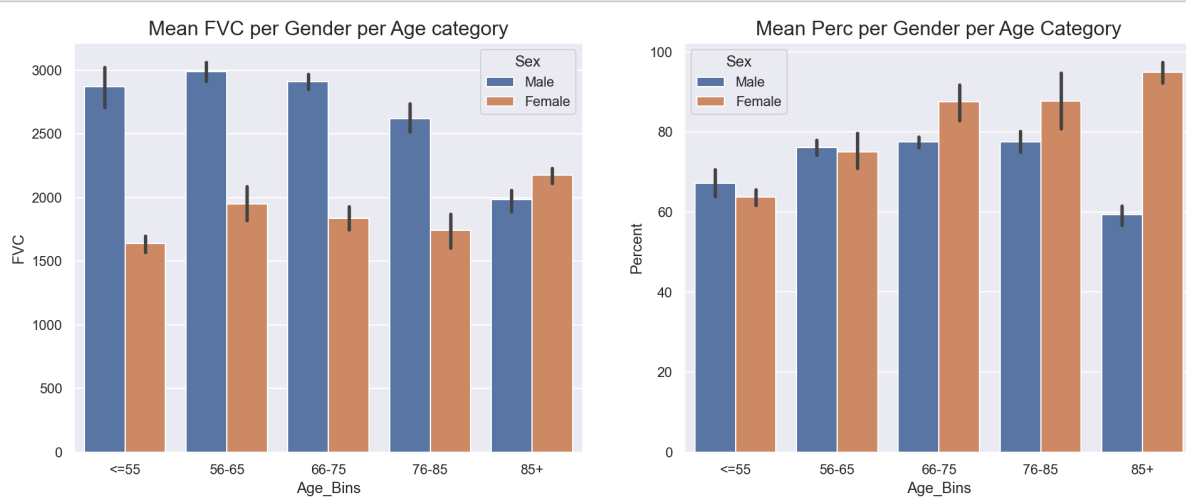
a.set_title("Mean FVC per Smoking Status", fontsize=16)
b.set_title("Mean Perc per Smoking Status", fontsize=16);
```



In [43]:
```
f, (ax1, ax2) = plt.subplots(1,2, figsize = (16, 6))

a = sns.barplot(x = train["Age_Bins"], y = train["FVC"], hue = train["Sex"], a
x=ax1)
b = sns.barplot(x = train["Age_Bins"], y = train["Percent"], hue = train["Sex"
], ax=ax2)

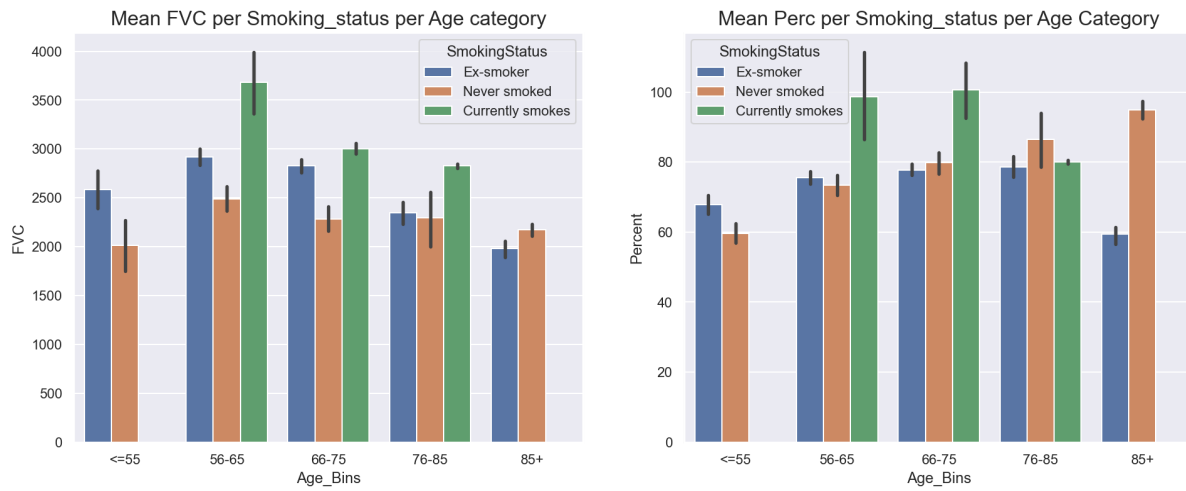
a.set_title("Mean FVC per Gender per Age category", fontsize=16)
b.set_title("Mean Perc per Gender per Age Category", fontsize=16);
```



In [44]:
```
f, (ax1, ax2) = plt.subplots(1,2, figsize = (16, 6))

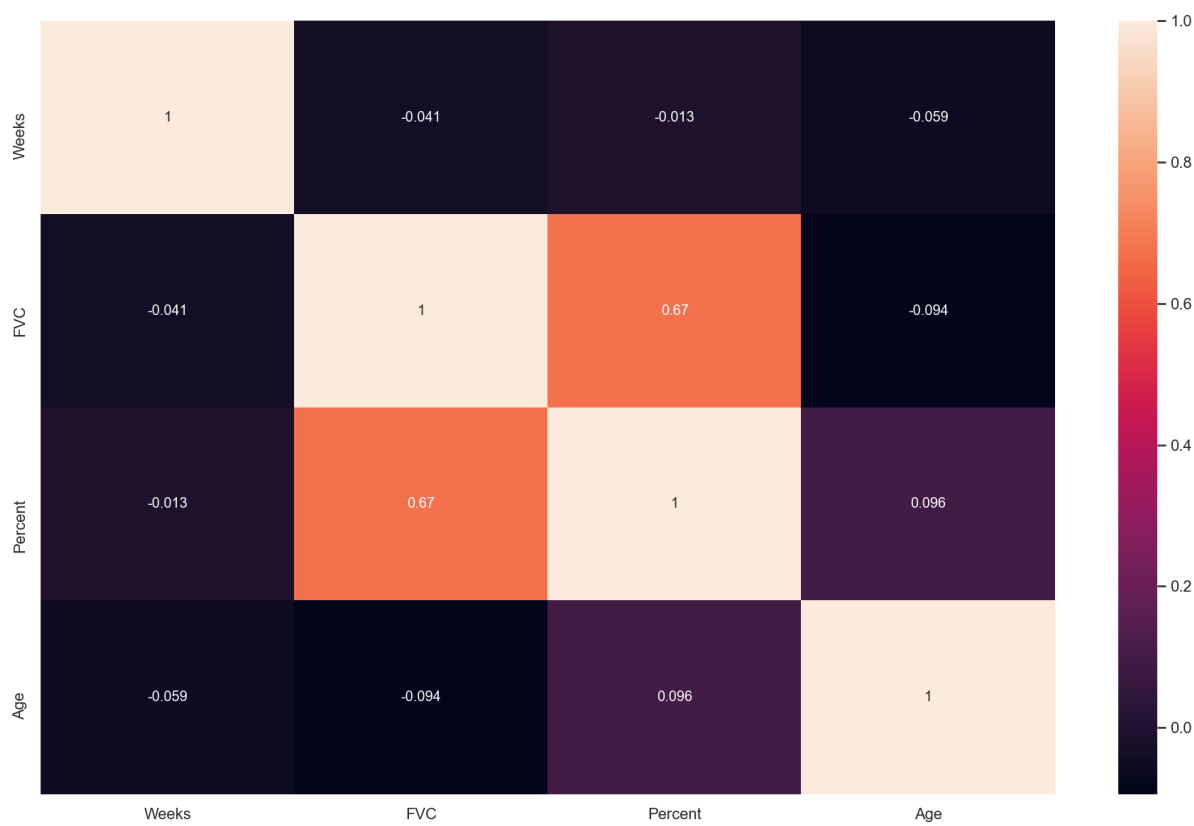
a = sns.barplot(x = train["Age_Bins"], y = train["FVC"], hue = train["SmokingS
tatus"], ax=ax1)
b = sns.barplot(x = train["Age_Bins"], y = train["Percent"], hue = train["Smok
ingStatus"], ax=ax2)

a.set_title("Mean FVC per Smoking_status per Age category", fontsize=16)
b.set_title("Mean Perc per Smoking_status per Age Category", fontsize=16);
```



In [45]:
```
plt.figure(figsize=(16,10))
sns.heatmap(train.corr(),annot=True)
```

Out[45]: <AxesSubplot:>



In [46]:
```
import scipy
```

In [47]:
```
# Compute Correlation
corr1, _ = scipy.stats.pearsonr(train["FVC"], train["Percent"])
corr2, _ = scipy.stats.pearsonr(train["FVC"], train["Age"])
corr3, _ = scipy.stats.pearsonr(train["Percent"], train["Age"])
print("Pearson Corr FVC x Percent: {:.4}".format(corr1), "\n" +
      "Pearson Corr FVC x Age: {:.0}".format(corr2), "\n" +
      "Pearson Corr Percent x Age: {:.2}".format(corr3))
```

```
Pearson Corr FVC x Percent: 0.672
Pearson Corr FVC x Age: -0.09
Pearson Corr Percent x Age: 0.096
```

In [48]:
```
train.describe()
```

Out[48]:

	Weeks	FVC	Percent	Age
count	1549.000000	1549.000000	1549.000000	1549.000000
mean	31.861846	2690.479019	77.672654	67.188509
std	23.247550	832.770959	19.823261	7.057395
min	-5.000000	827.000000	28.877577	49.000000
25%	12.000000	2109.000000	62.832700	63.000000
50%	28.000000	2641.000000	75.676937	68.000000
75%	47.000000	3171.000000	88.621065	72.000000
max	133.000000	6399.000000	153.145378	88.000000

In [49]:
```
train.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1549 entries, 0 to 1548
Data columns (total 8 columns):
 #   Column         Non-Null Count  Dtype
---  ------         --------------  -----
 0   Patient        1549 non-null   object
 1   Weeks          1549 non-null   int64
 2   FVC            1549 non-null   int64
 3   Percent        1549 non-null   float64
 4   Age            1549 non-null   int64
 5   Age_Bins       1540 non-null   category
 6   Sex            1549 non-null   object
 7   SmokingStatus  1549 non-null   object
dtypes: category(1), float64(1), int64(3), object(3)
memory usage: 86.5+ KB
```

In [50]:
```
# creating Age-Bins in fc data

category = pd.cut(fc.Age,bins = [49,55,65,75,85,120],labels=['<=55','56-65','6
6-75','76-85','85+'])
fc.insert(5,'Age_Bins',category)
```

In [51]:
```
fc.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 176 entries, 0 to 175
Data columns (total 6 columns):
 #   Column         Non-Null Count  Dtype
---  ------         --------------  -----
 0   FVC            176 non-null    int64
 1   Percent        176 non-null    float64
 2   Age            176 non-null    int64
 3   Sex            176 non-null    object
 4   SmokingStatus  176 non-null    object
 5   Age_Bins       175 non-null    category
dtypes: category(1), float64(1), int64(2), object(2)
memory usage: 7.4+ KB
```

In [52]:
```
fc.describe()
```

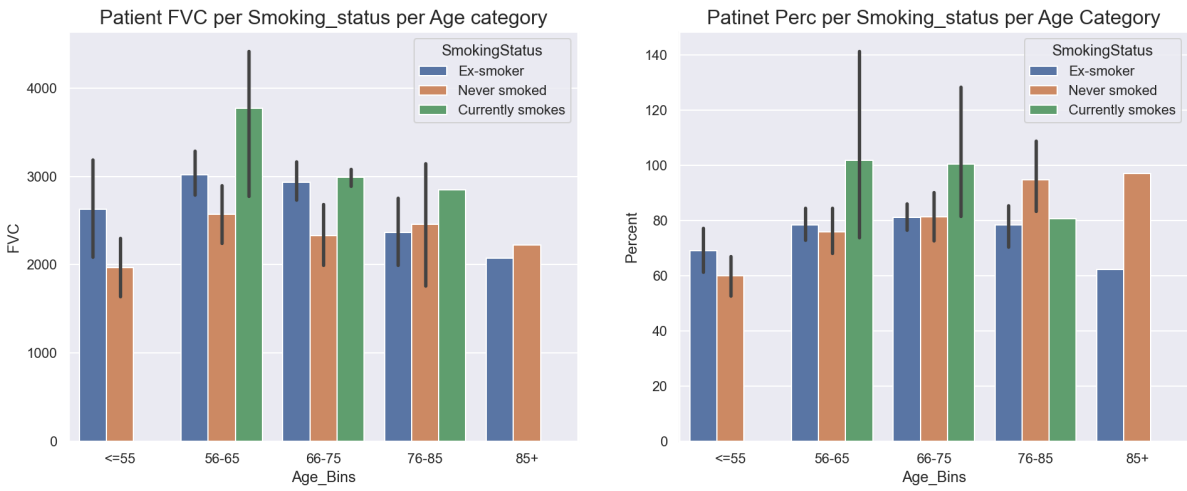
Out[52]:

	FVC	Percent	Age
count	176.000000	176.000000	176.000000
mean	2771.744318	80.172904	67.261364
std	835.574511	19.421954	7.088009
min	1015.000000	43.352279	49.000000
25%	2229.000000	66.187948	63.000000
50%	2665.000000	78.894309	68.000000
75%	3239.250000	90.997135	72.000000
max	6399.000000	153.012912	88.000000

In [53]:
```
f, (ax1, ax2) = plt.subplots(1,2, figsize = (16, 6))

a = sns.barplot(x = fc["Age_Bins"], y = fc["FVC"], hue = fc["SmokingStatus"],
ax=ax1)
b = sns.barplot(x = fc["Age_Bins"], y = fc["Percent"], hue = fc["SmokingStatu
s"], ax=ax2)

a.set_title("Patient FVC per Smoking_status per Age category", fontsize=16)
b.set_title("Patinet Perc per Smoking_status per Age Category", fontsize=16);
```



In [54]:
```
import pydicom
```

In [55]:
```
import os
import json
from pathlib import Path
from glob import glob
```

In [56]:
```
from fastai.basics import *
from fastai.vision.all import *
from fastai.data.transforms import *
from fastai.medical.imaging import *

import pydicom,kornia,skimage
```

In [57]:
```
try:
    import cv2
    cv2.setNumThreads(0)
except: pass

import seaborn as sns
sns.set(style="whitegrid")
sns.set_context("paper")
```

In [58]:
```
#Visulising Dicom Files

files = Path('D:/Kaggle/Pulmonary Fibrosis/train')
```

In [59]:
```
train_files = get_dicom_files(files)
```

In [60]:
```
train_files
```

Out[60]:
```
(#33026) [Path('D:/Kaggle/Pulmonary Fibrosis/train/ID00007637202177411956430/
1.dcm'),Path('D:/Kaggle/Pulmonary Fibrosis/train/ID00007637202177411956430/1
0.dcm'),Path('D:/Kaggle/Pulmonary Fibrosis/train/ID00007637202177411956430/1
1.dcm'),Path('D:/Kaggle/Pulmonary Fibrosis/train/ID00007637202177411956430/1
2.dcm'),Path('D:/Kaggle/Pulmonary Fibrosis/train/ID00007637202177411956430/1
3.dcm'),Path('D:/Kaggle/Pulmonary Fibrosis/train/ID00007637202177411956430/1
4.dcm'),Path('D:/Kaggle/Pulmonary Fibrosis/train/ID00007637202177411956430/1
5.dcm'),Path('D:/Kaggle/Pulmonary Fibrosis/train/ID00007637202177411956430/1
6.dcm'),Path('D:/Kaggle/Pulmonary Fibrosis/train/ID00007637202177411956430/1
7.dcm'),Path('D:/Kaggle/Pulmonary Fibrosis/train/ID00007637202177411956430/1
8.dcm')...]
```

In [61]:
```
info_view = train_files[33025]
dimg = dcmread(info_view)
dimg
```

Out[61]:
```
Dataset.file_meta -------------------------------
(0002, 0000) File Meta Information Group Length  UL: 200
(0002, 0001) File Meta Information Version       OB: b'\x00\x01'
(0002, 0002) Media Storage SOP Class UID         UI: CT Image Storage
(0002, 0003) Media Storage SOP Instance UID      UI: 2.25.1689051277913671844
74415800608234029037
(0002, 0010) Transfer Syntax UID                 UI: Explicit VR Little Endia
n
(0002, 0012) Implementation Class UID            UI: 1.2.276.0.7230010.3.0.3.
6.1
(0002, 0013) Implementation Version Name         SH: 'OSIRIX_361'
(0002, 0016) Source Application Entity Title     AE: 'ANONYMOUS'
-------------------------------------------------
(0008, 0018) SOP Instance UID                    UI: 2.25.1689051277913671844
74415800608234029037
(0008, 0060) Modality                            CS: 'CT'
(0010, 0010) Patient's Name                      PN: 'ID0042663720231317079044
66'
(0010, 0020) Patient ID                          LO: 'ID0042663720231317079044
66'
(0010, 0040) Patient's Sex                       CS: ''
(0018, 0015) Body Part Examined                  CS: 'Chest'
(0020, 000d) Study Instance UID                  UI: 2.25.4668336147518546534
9755690410809772979
(0020, 000e) Series Instance UID                 UI: 2.25.1365097118820672749
97145019838799802041
(0020, 0010) Study ID                            SH: ''
(0020, 0013) Instance Number                     IS: "99"
(0020, 0032) Image Position (Patient)            DS: [-191, -29, -241.200012]
(0020, 0037) Image Orientation (Patient)         DS: [1, 0, 0, 0, 1, 0]
(0028, 0002) Samples per Pixel                   US: 1
(0028, 0004) Photometric Interpretation          CS: 'MONOCHROME2'
(0028, 0010) Rows                                US: 512
(0028, 0011) Columns                             US: 512
(0028, 0030) Pixel Spacing                       DS: [0.71875, 0.71875]
(0028, 0100) Bits Allocated                      US: 16
(0028, 0101) Bits Stored                         US: 12
(0028, 0102) High Bit                            US: 11
(0028, 0103) Pixel Representation                US: 0
(0028, 1050) Window Center                       DS: "-500.0"
(0028, 1051) Window Width                        DS: "-1500.0"
(0028, 1052) Rescale Intercept                   DS: "-1024.0"
(0028, 1053) Rescale Slope                       DS: "1.0"
(7fe0, 0010) Pixel Data                          OW: Array of 524288 elements
```

In [62]:
```
#There are some 'key' aspects within the header:

#(0018, 0015) Body Part Examined CS: Chest: images are from the chest area

#(0020, 0013) Instance Number IS: "99": this is the same as the .dcm image fil
e

#(0020, 0032) Image Position (Patient) DS: [-191, -29, -241.200012]: represent
s the x, y and z positions

#(0020, 0037) Image Orientation (Patient) DS: [1, 0, 0, 0, 1, 0]: This is 6 va
lues that represent two
#normalized 3D vectors(in this case directions) where the first vector [1,0,0]
represents Xx, Xy, Xz and the
#second vector [0,1,0] that represents Yx, Yy, Yz.

#(0028, 0004) Photometric Interpretation CS: MONOCHROME2: aka the colorspace,
 images are being stored
#as low values=dark, high values=bright. If the colorspace was MONOCHROME then
the low values=bright and high values=dark.

#(0028, 0100) Bits Allocated US: 16: each image is 16 bits

#(0028, 1050) Window Center DS: "-500.0" : aka Brightness

#(0028, 1051) Window Width DS: "-1500.0" : aka Contrast

#(0028, 1052) Rescale Intercept DS: "-1024.0" and (0028, 1053) Rescale Slope D
S: "1.0":
#The Rescale Intercept and Rescale Slope are applied to transform the pixel va
lues of the image into values that
#are meaningful to the application. It's importance is explained further in th
e kernel.

#(7fe0, 0010) Pixel Data OW: Array of 524288 elements: the image pixel data th
at pydicom uses to convert the pixel data
#into an image.

#This can be calculated by this formula:
#Array of elements = Rows X Columns X Number of frames X Samples per pixel X
 (bits_allocated/8)
#so in this example it would be 512 X 512 X 1 X 1 X (16/8) = 524288
```

In [63]:
```
dimg.PixelData[:33025]
```

Out[63]:
```
b'\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x0
0\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00
\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00
\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x10\x00\'\x004\x
00\x08\x00!\x00&\x00\x19\x00#\x00\x03\x00-\x002\x00\x00\x00!\x00\'\x00\'\x006
\x002\x00\x0f\x00\x00\x00\x1c\x00&\x00\x0c\x00>\x002\x00\x17\x00\x10\x00\x00
\x00"\x00\x00\x00\x00\x00@\x00J\x00$\x000\x00\x19\x00\x04\x00$\x00$\x00\x06\x
00\x1a\x00\x03\x00\x1a\x00\x17\x007\x00!\x00\n\x00\x19\x00$\x00(\x00\x00\x00
\x00\x00V\x00\x00\x00\x1f\x00(\x000\x00-\x00j\x00\x0c\x00\x00\x00\x00\x00\x0f
\x00D\x00\x00\x00&\x00\x16\x00\x13\x005\x00%\x00&\x00\x0c\x00\x00\x00 \x00\x0
f\x00E\x00\r\x00\x00\x009\x00\x15\x00\x00\x00C\x00/\x00\x12\x00\x00\x00\x1b\x
00H\x00\x15\x00\t\x00\x00\x00\x03\x004\x00\x1e\x00\x19\x00\r\x00$\x00"\x00\x1
9\x00\x00\x00\x1d\x00-\x00-\x00?\x00\x0f\x00\x00\x00\x0b\x00/\x00.\x00\x00\x0
0\x0c\x00#\x00\x15\x00\x00\x00B\x00&\x00\x06\x00\x0b\x00\x06\x00\'\x00\t\x00
\x00\x00;\x00$\x00\x0c\x00\x1d\x00\x0e\x00 \x00\r\x00\x05\x00P\x00\x13\x00$\x
00\x1f\x00\n\x00\x05\x00H\x00(\x00\x1b\x00\x00\x003\x00&\x00\x11\x00\x1b\x00
\x1c\x00\x00\x00\x0f\x00\x00\x00\x12\x00\x16\x00%\x00\x1a\x00"\x00\r\x00\x00
\x00%\x000\x00E\x00\x11\x00\x15\x00\x00\x00\x1c\x00\x1e\x00\x18\x00\x00\x00\x
13\x00:\x005\x00\x0b\x00"\x00&\x00\t\x00;\x00\x17\x00\x00\x00\x17\x002\x00\x1
b\x00M\x003\x00\x00\x00\x03\x00(\x00#\x00\x0e\x00\x1a\x004\x00(\x00\x00\x00\x
07\x00$\x00\x0c\x00-\x00\x00\x00\x04\x00)\x009\x00\x18\x00\x00\x00%\x00-\x00
\x01\x00\x01\x00\x05\x00\x18\x00C\x00\x00\x00\x19\x006\x00\x1d\x00\t\x00\'\x0
0&\x00"\x00\x10\x00/\x00\x0f\x00\x00\x00\x08\x00(\x008\x00\x00\x00\x19\x00*\x
00\x0b\x00\x06\x00\x12\x00\n\x00\x1d\x00F\x00\x06\x00\x03\x00/\x00\x00\x00\x1
4\x00!\x00\x1c\x00\x1d\x00\x19\x00\x14\x00)\x001\x00\x04\x00\x14\x00$\x00\x12
\x00\n\x00,\x00!\x00\x11\x004\x00\x0e\x002\x00*\x00\x00\x00%\x001\x00)\x00\x1
9\x00\x00\x00)\x00\x1e\x00\x15\x00\x0c\x00\x0e\x00!\x00\x16\x00\x01\x00?\x00
\x1e\x00\x00\x00\x16\x00%\x002\x00\x01\x004\x00\x04\x00\x00\x00$\x001\x00\x15
\x00\x08\x00\t\x00\'\x00E\x00\x19\x00\x00\x005\x00 \x00\x02\x002\x00,\x00\x15
\x00(\x00\x16\x00\x00\x00\x12\x00\x1f\x00\x00\x00\x00\x00\x13\x00?\x00\x01\x0
0\t\x00\x19\x00\x1c\x007\x00\x1d\x00\n\x00\x1f\x00$\x003\x00%\x00\x1e\x00\x1c
\x00\x0f\x00\x00\x00\x10\x00+\x00\n\x00/\x00\x1e\x00\x00\x00.\x00\x1c\x00\x1c
\x00\x10\x00\x11\x00!\x00\x00\x00;\x00A\x00\x00\x00\x06\x00=\x00\n\x00\r\x00!
\x00,\x00)\x00\x16\x00 \x00\x0b\x00\x0c\x00\x1d\x00\x00\x00\x00\x002\x000\x00
\x1e\x00\x00\x00\x1f\x00\x1d\x00#\x00\x00\x00&\x00!\x00\x00\x00\x1b\x00\r\x00
\x03\x00\x1a\x00.\x00*\x00\x1b\x00\x1d\x00)\x00\x0c\x00\x19\x000\x00\x0f\x00
\x0e\x00\x1c\x00\'\x00\x00\x00\x00\x004\x00"\x00\n\x006\x00\x1d\x00\x0f\x00\x
1d\x00\x00\x00B\x00\x06\x00\x04\x00"\x000\x00\x08\x00\x19\x00\x1a\x00\x18\x00
2\x00#\x00/\x00\n\x00\x01\x00\x13\x00\x13\x00\x00\x00\n\x007\x003\x00\x00\x00
\x1e\x00#\x00\x0e\x00+\x00$\x00\x1c\x00%\x00#\x00\x1a\x00!\x00\x0e\x00@\x00!
\x00\x0e\x00\x0f\x00$\x00\x07\x00\x05\x00#\x00\x16\x00I\x00\x00\x00\x01\x00=
\x00 \x00\x14\x00\x00\x00\x1c\x006\x00\x00\x00\x12\x00M\x00!\x00,\x00\x02\x00
\x00\x001\x00\'\x00\x1b\x00+\x00D\x00F\x00\x00\x00\t\x00\r\x00\x0c\x002\x00`
\x00%\x00\x00\x00\x14\x00\x0c\x00\x00\x00>\x007\x00\t\x00\x00\x00\x00\x00\x00
\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00
\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00
\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00
\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00
\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00
\x00\x00\x00\x00_\x00\'\x00\x00\x00\'\x00)\x00\x12\x00?\x00\r\x00\x0c\x00\x1c
\x00\'\x00-\x00\x1b\x00\r\x00\x17\x00.\x00\x00\x00M\x00\\\x00\x00\x00\x00\x00
I\x00\x1a\x00*\x00.\x00%\x008\x00\x00\x00\x00\x00(\x00\x00\x00\x00\x00q\x00\x
15\x00)\x003\x00)\x00\x00\x00<\x00\x1e\x00;\x00\x06\x00\x1b\x00\r\x00$\x00
\'\x00\x1b\x00\x00\x005\x00.\x00%\x00\x00\x005\x00-\x00\x00\x00\x00\x00k\x00
\x00\x00\x84\x00>\x00\x00\x00\x00\x00\x00\x007\x00\x13\x00\x03\x002\x00\x00\x
00\x0b\x00N\x00=\x00\x04\x00\x00\x008\x00\x00\x00\x18\x00K\x00\x01\x00"\x002
\x00\x00\x00\x16\x00\x1d\x00a\x00\t\x00\x00\x00J\x00)\x00\x00\x00\x1e\x00\x00
```

\x006\x00=\x00:\x00\x00\x00\x00\x00*\x00\\\x00\x00\x00\x00\x00?\x00\x1e\x00\x
00\x00)\x00\x04\x00\x01\x00+\x00-\x00\x07\x00!\x000\x00\t\x00\x04\x00^\x00#\x
00\n\x00\x00\x00\x10\x00:\x00)\x00\x00\x00\x07\x003\x00\x0b\x009\x00\x00\x00
\x1a\x00 \x00\x00\x00-\x00+\x00=\x00\x0e\x00(\x00\x13\x00+\x00-\x00/\x00\x16
\x00\x00\x00:\x00,\x00\x12\x009\x00/\x00\x00\x00\x00\x00/\x00\x00\x00,\x00*\x
00@\x00\x12\x00\x00\x002\x00/\x00&\x00\x00\x009\x00\x00\x00\x00\x00+\x00(\x00
#\x00\x00\x00;\x00;\x00\x04\x00-\x00\x18\x00\x00\x00>\x00%\x00\x00\x00\x00\x0
0k\x00*\x00\x00\x00K\x00\x02\x00\x00\x00\x1c\x00=\x00\'\x00\x00\x00/\x00 \x00
\x00\x00\x00\x005\x00\x00\x00H\x00\x00\x00\x00\x00Z\x003\x00\x02\x00\x00\x00=
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F\x00\x00\x00\x13\x00$\x00\x00\x00\x15\x001\x003\x00\x00\x00.\x00(\x00+\x00\x
00\x00H\x00\x00\x00+\x00\n\x00\\\x00\x00\x00\x00\x007\x00H\x00!\x00\x1b\x00\x
00\x00\x1e\x004\x00\x12\x00K\x00M\x00#\x00\x00\x00\x00\x00\x1f\x00\x16\x00\x1
b\x00\x1b\x00\x00\x00\x00\x00)\x00C\x00=\x00,\x00\x00\x000\x00\x00\x00\x00\x0

```
0\x19\x00\x19\x00\x01\x00&\x00\x0f\x00\x0e\x00t\x00\x13\x00\x00\x00S\x00\x00
\x00\x04\x00\r\x00t\x00A\x00\x00\x00\x11\x00/\x00\x00\x00N\x007\x00\x00\x00\x
00\x00\x00\x00>\x00\'\x00\x00\x00,\x00M\x00\x1c\x00\x00\x00\x1a\x00\x1f\x00\x
05\x00\x00\x00(\x00%\x00K\x00\x00\x00O\x00\x16\x00\x00\x00&\x00\x13\x00\x19\x
000\x00\x1b\x00\x00\x00\x00\x00R\x00(\x00\x00\x00\x00\x009\x00\x00\x002\x00
 \x00\x04\x00\x01\x00(\x00m\x00\x00\x00\x00\x00\x00\x00\x00\x00$\x00\x16\x00J
\x00Z\x00\x1a\x00\x00\x00\x00\x00\x02\x00B\x00\x00\x00 \x001\x00\x06\x00\x17
\x00\x00\x00\x00\x00_\x00\x12\x00L\x00\x03\x00\x0e\x00\x00\x00\x00\x00b\x000
\x00$\x00G\x004\x00\x00\x00\x08\x00G\x00\x00\x00\x1e\x00V\x00#\x00,\x00\x00\x
00\x1b\x00r\x00"\x00\x00\x00\x00\x00L\x00P\x00\x0f\x00\x0f\x00\x12\x00\x13\x0
0\x12\x00\x00\x00$\x00B\x00K\x00\x00\x00\x03\x00\x16\x00\x10\x00\x03\x00\x00
\x00>\x00o\x00$\x00\x00\x00\x13\x00\x01\x00T\x00\x12\x00\x00\x00A\x00!\x00\x1
d\x00\x00\x00\x04\x00/\x00*\x00$\x00\x00\x00\x00\x00j\x00D\x00\x00\x00\x00\x0
0%\x007\x00\x00\x00R\x00Z\x00\x00\x00\x00\x003\x00T\x00]\x00\x19\x00\x00\x00
\x00\x00\x12\x00t\x00\x17\x00%\x00\x04\x00\x13\x00\x0c\x00\x03\x00(\x00\x00\x
00\x10\x00E\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00\x0c\x00\n\x00
Q\x00\x0f\x00\x00\x00\x1c\x00H\x00Y\x006\x00\x1e\x00!\x00\x03\x00\x00\x00)\x0
03\x00\x1b\x00@\x00"\x00\x00\x00\x00\x00.\x00H\x00\x00\x00\x00\x00\x1c\x00*\x
00\x81\x00\x00\x00\x02\x002\x00<\x00\x08\x00\x00\x00\x13\x00\x1e\x001\x00\x00
\x00.\x00)\x009\x006\x00\x00\x00&\x00N\x00\x01\x00\x00\x000\x00>\x00\x00\x00%
\x00Q\x00\x11\x006\x00A\x00\x00\x00,\x00\x04\x00/\x00;\x00%\x00\x00\x00\x07\x
00\x00\x00)\x00S\x000\x00\x15\x00\x04\x00\x0e\x003\x00\x12\x00\x04\x00\x1c\x0
0\x00\x00\n\x005\x00\x0f\x00n\x00\x00\x00\x00\x00$\x00,\x00\x00\x00\x00\x00g
\x00A\x00\x1d\x00\x1b\x00\x00\x00I\x00*\x00\x00\x00\x01\x00\x19\x00\x11\x00=
\x00\x00\x00\x03\x00\x84\x00!\x00\x00\x00#\x00\x00\x00\x00\x00,\x00\x00\x00\x
1b\x00\x0c\x00\x08\x00\x00\x00\x08\x00X\x00U\x00\x06\x00\x00\x00\x12\x00\x02
\x00>\x00O\x008\x00\x00\x00\x1c\x00\r\x00\x1b'
```

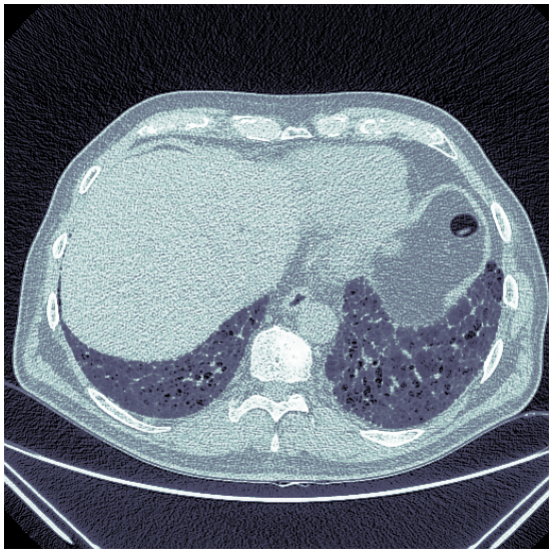
In [218]:
```
dimg.pixel_array
```

Out[218]:
```
array([[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]], dtype=uint16)
```

In [64]:
```
dimg.pixel_array.shape
```

Out[64]:
```
(512, 512)
```

In [65]:
```
dimg.show()
```



In [66]:
```
import pydicom as dicom
import PIL # optional
import pandas as pd
import matplotlib.pyplot as plt
```

In [67]:
```
# Metdata of dicomfiles extracted as dataframe

df_dicom = pd.DataFrame.from_dicoms(train_files)
```

```
{'SOPInstanceUID': '2.25.94631462885157129636339978414045230 38', 'Modality':
'CT', 'PatientName': 'ID00011637202177653955184', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID': '2.2
5.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumber':
"1", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\1.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1': "-
307.2099609375", 'ImagePositionPatient2': "-63.5", 'MultiImageOrientationPati
ent': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2': "0.
0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0", 'Im
ageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1': "0.5
80078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowWidt
h': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0, 'i
mg_std': 0} The length of the pixel data in the dataset (296226 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.107495011128866371426156845239384455192', 'Modalit
y': 'CT', 'PatientName': 'ID00011637202177653955184', 'PatientID': 'ID0001163
7202177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInsta
nceUID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID':
'2.25.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumbe
r': "10", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatien
t': "1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2',
'Rows': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated':
16, 'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCente
r': "-500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'Rescal
eSlope': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID0001163720
2177653955184\\10.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient
1': "-307.2099609375", 'ImagePositionPatient2': "-153.5", 'MultiImageOrientat
ionPatient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient
2': "0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.
0", 'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing
1': "0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWin
dowWidth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mea
n': 0, 'img_std': 0} The length of the pixel data in the dataset (308844 byte
s) doesn't match the expected length (524288 bytes). The dataset may be corru
pted or there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.73562444946465278013331121559693420 07', 'Modality':
'CT', 'PatientName': 'ID00011637202177653955184', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID': '2.2
5.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumber':
"11", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\11.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1':
"-307.2099609375", 'ImagePositionPatient2': "-163.5", 'MultiImageOrientationP
atient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2':
"0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0",
```

```
'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1':
"0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowW
idth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0,
'img_std': 0} The length of the pixel data in the dataset (308518 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.112133463943118926920140725983107571898', 'Modalit
y': 'CT', 'PatientName': 'ID000116372021776539551 84', 'PatientID': 'ID0001163
7202177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInsta
nceUID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID':
'2.25.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumbe
r': "12", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatien
t': "1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2',
'Rows': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated':
16, 'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCente
r': "-500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'Rescal
eSlope': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID0001163720
2177653955184\\12.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient
1': "-307.2099609375", 'ImagePositionPatient2': "-173.5", 'MultiImageOrientat
ionPatient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient
2': "0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.
0", 'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing
1': "0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWin
dowWidth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mea
n': 0, 'img_std': 0} The length of the pixel data in the dataset (308044 byte
s) doesn't match the expected length (524288 bytes). The dataset may be corru
pted or there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.138083543328371020735244066505013750 38', 'Modality':
'CT', 'PatientName': 'ID000116372021776539551 84', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID': '2.2
5.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumber':
"13", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\13.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1':
"-307.2099609375", 'ImagePositionPatient2': "-183.5", 'MultiImageOrientationP
atient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2':
"0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0",
'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1':
"0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowW
idth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0,
'img_std': 0} The length of the pixel data in the dataset (313032 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.155465729764015177963130059471533850337', 'Modalit
y': 'CT', 'PatientName': 'ID000116372021776539551 84', 'PatientID': 'ID0001163
7202177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInsta
nceUID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID':
'2.25.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumbe
r': "14", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatien
t': "1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2',
'Rows': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated':
16, 'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCente
```

```
r': "-500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'Rescal
eSlope': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID0001163720
2177653955184\\14.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient
1': "-307.2099609375", 'ImagePositionPatient2': "-193.5", 'MultiImageOrientat
ionPatient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient
2': "0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.
0", 'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing
1': "0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWin
dowWidth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mea
n': 0, 'img_std': 0} The length of the pixel data in the dataset (317938 byte
s) doesn't match the expected length (524288 bytes). The dataset may be corru
pted or there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.137613631790399139406318306830279806672', 'Modalit
y': 'CT', 'PatientName': 'ID000116372021776539551 84', 'PatientID': 'ID0001163
7202177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInsta
nceUID': '2.25.588939410135467153149156109435750065 91', 'SeriesInstanceUID':
'2.25.479569167174512922647807603219744977 31', 'StudyID': '', 'InstanceNumbe
r': "15", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatien
t': "1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2',
'Rows': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated':
16, 'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCente
r': "-500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'Rescal
eSlope': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID0001163720
2177653955184\\15.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient
1': "-307.2099609375", 'ImagePositionPatient2': "-203.5", 'MultiImageOrientat
ionPatient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient
2': "0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.
0", 'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing
1': "0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWin
dowWidth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mea
n': 0, 'img_std': 0} The length of the pixel data in the dataset (319950 byte
s) doesn't match the expected length (524288 bytes). The dataset may be corru
pted or there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.109259732190364965086229811319826980 09', 'Modality':
'CT', 'PatientName': 'ID000116372021776539551 84', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.588939410135467153149156109435750065 91', 'SeriesInstanceUID': '2.2
5.479569167174512922647807603219744977 31', 'StudyID': '', 'InstanceNumber':
"16", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\16.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1':
"-307.2099609375", 'ImagePositionPatient2': "-213.5", 'MultiImageOrientationP
atient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2':
"0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0",
'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1':
"0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowW
idth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0,
'img_std': 0} The length of the pixel data in the dataset (314728 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.136926408850833417630112873647569993991', 'Modalit
y': 'CT', 'PatientName': 'ID000116372021776539551 84', 'PatientID': 'ID0001163
7202177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInsta
```

```
nceUID': '2.25.588939410135467153149156109435750065 91', 'SeriesInstanceUID':
'2.25.479569167174512922647807603219744977 31', 'StudyID': '', 'InstanceNumbe
r': "17", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatien
t': "1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2',
'Rows': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated':
16, 'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCente
r': "-500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'Rescal
eSlope': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID0001163720
2177653955184\\17.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient
1': "-307.2099609375", 'ImagePositionPatient2': "-223.5", 'MultiImageOrientat
ionPatient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient
2': "0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.
0", 'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing
1': "0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWin
dowWidth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mea
n': 0, 'img_std': 0} The length of the pixel data in the dataset (316638 byte
s) doesn't match the expected length (524288 bytes). The dataset may be corru
pted or there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.785287883511547557131554729237792021 96', 'Modality':
'CT', 'PatientName': 'ID0001163720217765395518 4', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.588939410135467153149156109435750065 91', 'SeriesInstanceUID': '2.2
5.479569167174512922647807603219744977 31', 'StudyID': '', 'InstanceNumber':
"18", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\18.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1':
"-307.2099609375", 'ImagePositionPatient2': "-233.5", 'MultiImageOrientationP
atient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2':
"0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0",
'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1':
"0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowW
idth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0,
'img_std': 0} The length of the pixel data in the dataset (321750 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.126727157757731455323139208271699358 43', 'Modality':
'CT', 'PatientName': 'ID0001163720217765395518 4', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.588939410135467153149156109435750065 91', 'SeriesInstanceUID': '2.2
5.479569167174512922647807603219744977 31', 'StudyID': '', 'InstanceNumber':
"19", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\19.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1':
"-307.2099609375", 'ImagePositionPatient2': "-243.5", 'MultiImageOrientationP
atient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2':
"0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0",
'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1':
"0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowW
idth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0,
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'img_std': 0} The length of the pixel data in the dataset (317092 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.651264284287467233201462915333002694 72', 'Modality':
'CT', 'PatientName': 'ID00011637202177653955184', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID': '2.2
5.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumber':
"2", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\2.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1': "-
307.2099609375", 'ImagePositionPatient2': "-73.5", 'MultiImageOrientationPati
ent': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2': "0.
0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0", 'Im
ageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1': "0.5
80078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowWidt
h': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0, 'i
mg_std': 0} The length of the pixel data in the dataset (304318 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.82035529608864354363096009125612911157', 'Modality':
'CT', 'PatientName': 'ID00011637202177653955184', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID': '2.2
5.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumber':
"20", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\20.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1':
"-307.2099609375", 'ImagePositionPatient2': "-253.5", 'MultiImageOrientationP
atient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2':
"0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0",
'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1':
"0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowW
idth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0,
'img_std': 0} The length of the pixel data in the dataset (313802 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.135224005110678679574937168960471740180', 'Modalit
y': 'CT', 'PatientName': 'ID00011637202177653955184', 'PatientID': 'ID0001163
7202177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInsta
nceUID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID':
'2.25.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumbe
r': "21", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatien
t': "1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2',
'Rows': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated':
16, 'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCente
r': "-500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'Rescal
eSlope': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID0001163720
2177653955184\\21.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient
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```
1': "-307.2099609375", 'ImagePositionPatient2': "-263.5", 'MultiImageOrientat
ionPatient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient
2': "0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.
0", 'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing
1': "0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWin
dowWidth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mea
n': 0, 'img_std': 0} The length of the pixel data in the dataset (313868 byte
s) doesn't match the expected length (524288 bytes). The dataset may be corru
pted or there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.80220972320420501124160545862719951465', 'Modality':
'CT', 'PatientName': 'ID000116372021776539551 84', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID': '2.2
5.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumber':
"22", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\22.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1':
"-307.2099609375", 'ImagePositionPatient2': "-273.5", 'MultiImageOrientationP
atient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2':
"0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0",
'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1':
"0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowW
idth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0,
'img_std': 0} The length of the pixel data in the dataset (312148 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.20282249598253998943481904547378817750', 'Modality':
'CT', 'PatientName': 'ID000116372021776539551 84', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID': '2.2
5.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumber':
"23", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\23.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1':
"-307.2099609375", 'ImagePositionPatient2': "-283.5", 'MultiImageOrientationP
atient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2':
"0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0",
'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1':
"0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowW
idth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0,
'img_std': 0} The length of the pixel data in the dataset (310322 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.12304158916945092100936971260604347 9470', 'Modalit
y': 'CT', 'PatientName': 'ID000116372021776539551 84', 'PatientID': 'ID0001163
7202177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInsta
nceUID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID':
'2.25.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumbe
r': "24", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatien
```

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t': "1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2',
'Rows': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated':
16, 'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCente
r': "-500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'Rescal
eSlope': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID0001163720
2177653955184\\24.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient
1': "-307.2099609375", 'ImagePositionPatient2': "-293.5", 'MultiImageOrientat
ionPatient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient
2': "0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.
0", 'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing
1': "0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWin
dowWidth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mea
n': 0, 'img_std': 0} The length of the pixel data in the dataset (311220 byte
s) doesn't match the expected length (524288 bytes). The dataset may be corru
pted or there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.460181822793013339336334194042755353 03', 'Modality':
'CT', 'PatientName': 'ID00011637202177653955184', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
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5.479569167174512922647807603219744977 31', 'StudyID': '', 'InstanceNumber':
"25", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\25.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1':
"-307.2099609375", 'ImagePositionPatient2': "-303.5", 'MultiImageOrientationP
atient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2':
"0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0",
'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1':
"0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowW
idth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0,
'img_std': 0} The length of the pixel data in the dataset (316378 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.293613972004481614198778855013340490 93', 'Modality':
'CT', 'PatientName': 'ID00011637202177653955184', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.588939410135467153149156109435750065 91', 'SeriesInstanceUID': '2.2
5.479569167174512922647807603219744977 31', 'StudyID': '', 'InstanceNumber':
"26", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\26.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1':
"-307.2099609375", 'ImagePositionPatient2': "-313.5", 'MultiImageOrientationP
atient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2':
"0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0",
'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1':
"0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowW
idth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0,
'img_std': 0} The length of the pixel data in the dataset (322600 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
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{'SOPInstanceUID': '2.25.98234712538498413646767056837241230348', 'Modality':
'CT', 'PatientName': 'ID00011637202177653955184', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID': '2.2
5.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumber':
"27", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\27.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1':
"-307.2099609375", 'ImagePositionPatient2': "-323.5", 'MultiImageOrientationP
atient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2':
"0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0",
'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1':
"0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowW
idth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0,
'img_std': 0} The length of the pixel data in the dataset (318228 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.50203923628314796244704459891914216244', 'Modality':
'CT', 'PatientName': 'ID00011637202177653955184', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID': '2.2
5.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumber':
"28", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\28.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1':
"-307.2099609375", 'ImagePositionPatient2': "-333.5", 'MultiImageOrientationP
atient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2':
"0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0",
'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1':
"0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowW
idth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0,
'img_std': 0} The length of the pixel data in the dataset (316912 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.130902773033577667747432409124267034781', 'Modalit
y': 'CT', 'PatientName': 'ID00011637202177653955184', 'PatientID': 'ID0001163
7202177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInsta
nceUID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID':
'2.25.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumbe
r': "29", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatien
t': "1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2',
'Rows': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated':
16, 'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCente
r': "-500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'Rescal
eSlope': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID0001163720
2177653955184\\29.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient
1': "-307.2099609375", 'ImagePositionPatient2': "-343.5", 'MultiImageOrientat
ionPatient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient
2': "0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.
```

```
0", 'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing
1': "0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWin
dowWidth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mea
n': 0, 'img_std': 0} The length of the pixel data in the dataset (322744 byte
s) doesn't match the expected length (524288 bytes). The dataset may be corru
pted or there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.92410940641125329671602685303131497613', 'Modality':
'CT', 'PatientName': 'ID00011637202177653955184', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID': '2.2
5.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumber':
"3", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\3.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1': "-
307.2099609375", 'ImagePositionPatient2': "-83.5", 'MultiImageOrientationPati
ent': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2': "0.
0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0", 'Im
ageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1': "0.5
80078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowWidt
h': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0, 'i
mg_std': 0} The length of the pixel data in the dataset (303374 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.65151819631823191866447600323451640 58', 'Modality':
'CT', 'PatientName': 'ID00011637202177653955184', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID': '2.2
5.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumber':
"30", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\30.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1':
"-307.2099609375", 'ImagePositionPatient2': "-353.5", 'MultiImageOrientationP
atient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2':
"0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0",
'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1':
"0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowW
idth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0,
'img_std': 0} The length of the pixel data in the dataset (324530 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.47166506316128550213382148548298489182', 'Modality':
'CT', 'PatientName': 'ID00011637202177653955184', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID': '2.2
5.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumber':
"31", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
```

```
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\31.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1':
"-307.2099609375", 'ImagePositionPatient2': "-363.5", 'MultiImageOrientationP
atient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2':
"0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0",
'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1':
"0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowW
idth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0,
'img_std': 0} The length of the pixel data in the dataset (320390 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.79060946248985024985454773267933758323', 'Modality':
'CT', 'PatientName': 'ID000116372021776539551 84', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID': '2.2
5.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumber':
"4", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\4.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1': "-
307.2099609375", 'ImagePositionPatient2': "-93.5", 'MultiImageOrientationPati
ent': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2': "0.
0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0", 'Im
ageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1': "0.5
80078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowWidt
h': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0, 'i
mg_std': 0} The length of the pixel data in the dataset (301610 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.240548308370680924030156620831637050 60', 'Modality':
'CT', 'PatientName': 'ID000116372021776539551 84', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID': '2.2
5.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumber':
"5", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\5.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1': "-
307.2099609375", 'ImagePositionPatient2': "-103.5", 'MultiImageOrientationPat
ient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2': "0.
0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0", 'Im
ageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1': "0.5
80078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowWidt
h': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0, 'i
mg_std': 0} The length of the pixel data in the dataset (298944 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.37863222002173583735535776147245377513', 'Modality':
'CT', 'PatientName': 'ID000116372021776539551 84', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
```

```
ID': '2.25.588939410135467153149156109435750065 91', 'SeriesInstanceUID': '2.2
5.479569167174512922647807603219744977 31', 'StudyID': '', 'InstanceNumber':
"6", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\6.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1': "-
307.2099609375", 'ImagePositionPatient2': "-113.5", 'MultiImageOrientationPat
ient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2': "0.
0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0", 'Im
ageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1': "0.5
80078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowWidt
h': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0, 'i
mg_std': 0} The length of the pixel data in the dataset (302718 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.411373663871524271123379463923463305 33', 'Modality':
'CT', 'PatientName': 'ID000116372021776539551 84', 'PatientID': 'ID00011637202
177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.588939410135467153149156109435750065 91', 'SeriesInstanceUID': '2.2
5.479569167174512922647807603219744977 31', 'StudyID': '', 'InstanceNumber':
"7", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatient':
"1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Row
s': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated': 16,
'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-
500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlop
e': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID000116372021776
53955184\\7.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1': "-
307.2099609375", 'ImagePositionPatient2': "-123.5", 'MultiImageOrientationPat
ient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient2': "0.
0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.0", 'Im
ageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1': "0.5
80078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWindowWidt
h': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mean': 0, 'i
mg_std': 0} The length of the pixel data in the dataset (298498 bytes) does
n't match the expected length (524288 bytes). The dataset may be corrupted or
there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.146825428325898645450166070755582094649', 'Modalit
y': 'CT', 'PatientName': 'ID000116372021776539551 84', 'PatientID': 'ID0001163
7202177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInsta
nceUID': '2.25.588939410135467153149156109435750065 91', 'SeriesInstanceUID':
'2.25.479569167174512922647807603219744977 31', 'StudyID': '', 'InstanceNumbe
r': "8", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatien
t': "1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2',
'Rows': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated':
16, 'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCente
r': "-500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'Rescal
eSlope': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID0001163720
2177653955184\\8.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient
1': "-307.2099609375", 'ImagePositionPatient2': "-133.5", 'MultiImageOrientat
ionPatient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient
2': "0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.
0", 'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing
1': "0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWin
dowWidth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mea
```

```
n': 0, 'img_std': 0} The length of the pixel data in the dataset (297936 byte
s) doesn't match the expected length (524288 bytes). The dataset may be corru
pted or there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.125224569633841097600297661567635371876', 'Modalit
y': 'CT', 'PatientName': 'ID000116372021776539551 84', 'PatientID': 'ID0001163
7202177653955184', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInsta
nceUID': '2.25.58893941013546715314915610943575006591', 'SeriesInstanceUID':
'2.25.47956916717451292264780760321974497731', 'StudyID': '', 'InstanceNumbe
r': "9", 'ImagePositionPatient': "-144.2099609375", 'ImageOrientationPatien
t': "1.0", 'SamplesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2',
'Rows': 512, 'Columns': 512, 'PixelSpacing': "0.580078125", 'BitsAllocated':
16, 'BitsStored': 12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCente
r': "-500.0", 'WindowWidth': "1500.0", 'RescaleIntercept': "-1024.0", 'Rescal
eSlope': "1.0", 'fname': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID0001163720
2177653955184\\9.dcm', 'MultiImagePositionPatient': 1, 'ImagePositionPatient
1': "-307.2099609375", 'ImagePositionPatient2': "-143.5", 'MultiImageOrientat
ionPatient': 1, 'ImageOrientationPatient1': "0.0", 'ImageOrientationPatient
2': "0.0", 'ImageOrientationPatient3': "0.0", 'ImageOrientationPatient4': "1.
0", 'ImageOrientationPatient5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing
1': "0.580078125", 'MultiWindowCenter': 1, 'WindowCenter1': "40.0", 'MultiWin
dowWidth': 1, 'WindowWidth1': "350.0", 'img_min': 0, 'img_max': 0, 'img_mea
n': 0, 'img_std': 0} The length of the pixel data in the dataset (300486 byte
s) doesn't match the expected length (524288 bytes). The dataset may be corru
pted or there may be an issue with the pixel data handler.
{'SOPInstanceUID': '2.25.64514724747168860136334805065530013917', 'Modality':
'CT', 'PatientName': 'ID00052637202186188008618', 'PatientID': 'ID00052637202
186188008618', 'PatientSex': '', 'BodyPartExamined': 'Chest', 'StudyInstanceU
ID': '2.25.11781994505673502813774662420406782 0767', 'SeriesInstanceUID': '2.
25.53988073427766171475294626129168160339', 'StudyID': '', 'InstanceNumber':
"4", 'ImagePositionPatient': "-255.0", 'ImageOrientationPatient': "1.0", 'Sam
plesPerPixel': 1, 'PhotometricInterpretation': 'MONOCHROME2', 'Rows': 512, 'C
olumns': 512, 'PixelSpacing': "0.859375", 'BitsAllocated': 16, 'BitsStored':
12, 'HighBit': 11, 'PixelRepresentation': 0, 'WindowCenter': "-500.0", 'Windo
wWidth': "-1500.0", 'RescaleIntercept': "-1024.0", 'RescaleSlope': "1.0", 'fn
ame': 'D:\\Kaggle\\Pulmonary Fibrosis\\train\\ID00052637202186188008618\\4.dc
m', 'MultiImagePositionPatient': 1, 'ImagePositionPatient1': "-78.0", 'ImageP
ositionPatient2': "229.899994", 'MultiImageOrientationPatient': 1, 'ImageOrie
ntationPatient1': "0.0", 'ImageOrientationPatient2': "0.0", 'ImageOrientation
Patient3': "0.0", 'ImageOrientationPatient4': "1.0", 'ImageOrientationPatient
5': "0.0", 'MultiPixelSpacing': 1, 'PixelSpacing1': "0.859375", 'img_min': 0,
'img_max': 0, 'img_mean': 0, 'img_std': 0} The following handlers are availab
le to decode the pixel data however they are missing required dependencies: G
DCM (req. GDCM)
```

In [68]:
```
df_dicom
```

Out[68]:

	SOPInstanceUID	Modality	PatientName	
0	2.25.122976501513298718954405079383491607 34	CT	ID0000763720217741195643 0	ID
1	2.25.376113728799081265111879982761998533 41	CT	ID0000763720217741195643 0	ID
2	2.25.853074400962633096010523525423104173 07	CT	ID0000763720217741195643 0	ID
3	2.25.461237814262245932477610814415129100 06	CT	ID0000763720217741195643 0	ID
4	2.25.116080798158038264329904205296840554047	CT	ID0000763720217741195643 0	ID
...	...	...	...	
33021	2.25.688641035710376233202246871943989224 62	CT	ID0042663720231317079046 6	ID
33022	2.25.624830376895097511437807233550285491 00	CT	ID0042663720231317079046 6	ID
33023	2.25.157996238218972818303630887158270087 263	CT	ID0042663720231317079046 6	ID
33024	2.25.153328144901905534660189532174570667 564	CT	ID0042663720231317079046 6	ID
33025	2.25.168905127791367184474415800608234029 037	CT	ID0042663720231317079046 6	ID

33026 rows × 46 columns

In [69]:
```
df_dicom.describe()
```

Out[69]:

	InstanceNumber	ImagePositionPatient	ImageOrientationPatient	SamplesPerPixel	R
count	33026.000000	32570.000000	32571.000000	33026.0	33026.00
mean	183.647429	-178.271506	0.959166	1.0	580.50
std	158.012646	59.061607	0.282848	0.0	114.36
min	1.000000	-255.000000	-1.000000	1.0	512.00
25%	57.000000	-200.100000	1.000000	1.0	512.00
50%	153.000000	-183.141602	1.000000	1.0	512.00
75%	264.000000	-170.000000	1.000000	1.0	734.00
max	1018.000000	208.007800	1.000000	1.0	1302.00

8 rows × 35 columns

In [70]:
```
df_dicom.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 33026 entries, 0 to 33025
Data columns (total 46 columns):
 #   Column                        Non-Null Count  Dtype
---  ------                        --------------  -----
 0   SOPInstanceUID                33026 non-null  object
 1   Modality                      33026 non-null  object
 2   PatientName                   33026 non-null  object
 3   PatientID                     33026 non-null  object
 4   PatientSex                    33026 non-null  object
 5   BodyPartExamined              33026 non-null  object
 6   StudyInstanceUID              33026 non-null  object
 7   SeriesInstanceUID             33026 non-null  object
 8   StudyID                       33026 non-null  object
 9   InstanceNumber                33026 non-null  int64
 10  ImagePositionPatient          32570 non-null  float64
 11  ImageOrientationPatient       32571 non-null  float64
 12  SamplesPerPixel               33026 non-null  int64
 13  PhotometricInterpretation     33026 non-null  object
 14  Rows                          33026 non-null  int64
 15  Columns                       33026 non-null  int64
 16  PixelSpacing                  33026 non-null  float64
 17  BitsAllocated                 33026 non-null  int64
 18  BitsStored                    33026 non-null  int64
 19  HighBit                       33026 non-null  int64
 20  PixelRepresentation           33026 non-null  int64
 21  WindowCenter                  33026 non-null  float64
 22  WindowWidth                   33026 non-null  float64
 23  RescaleIntercept              33026 non-null  float64
 24  RescaleSlope                  33026 non-null  float64
 25  fname                         33026 non-null  object
 26  MultiImagePositionPatient     32570 non-null  float64
 27  ImagePositionPatient1         32570 non-null  float64
 28  ImagePositionPatient2         32570 non-null  float64
 29  MultiImageOrientationPatient  32571 non-null  float64
 30  ImageOrientationPatient1      32571 non-null  float64
 31  ImageOrientationPatient2      32571 non-null  float64
 32  ImageOrientationPatient3      32571 non-null  float64
 33  ImageOrientationPatient4      32571 non-null  float64
 34  ImageOrientationPatient5      32571 non-null  float64
 35  MultiPixelSpacing             33026 non-null  int64
 36  PixelSpacing1                 33026 non-null  float64
 37  img_min                       33026 non-null  int64
 38  img_max                       33026 non-null  int64
 39  img_mean                      33026 non-null  float64
 40  img_std                       33026 non-null  float64
 41  img_pct_window                32994 non-null  float64
 42  MultiWindowCenter             31 non-null     float64
 43  WindowCenter1                 31 non-null     float64
 44  MultiWindowWidth              31 non-null     float64
 45  WindowWidth1                  31 non-null     float64
dtypes: float64(24), int64(11), object(11)
memory usage: 11.6+ MB
```

In [71]:
```
df_dicom.head()
```

Out[71]:

	SOPInstanceUID	Modality	PatientName	
0	2.25.122976501513298718954405079383491607 34	CT	ID0000763720217741195643 0	ID00007
1	2.25.376113728799081265111879982761998533 41	CT	ID0000763720217741195643 0	ID00007
2	2.25.853074400962633096010523525423104173 07	CT	ID0000763720217741195643 0	ID00007
3	2.25.461237814262245932477610814415129100 06	CT	ID0000763720217741195643 0	ID00007
4	2.25.116080798158038264329904205296840554 047	CT	ID0000763720217741195643 0	ID00007

5 rows × 46 columns

In [72]:
```
%pwd
```

Out[72]:
```
'D:\\Kaggle\\Pulmonary Fibrosis'
```

In [73]:
```
df_dicom.to_csv('df_dicom.csv')
```

In [74]:
```
unique_patient_df = train.drop(['Weeks', 'FVC', 'Percent'], axis=1).drop_dupli
cates().reset_index(drop=True)
unique_patient_df['# visits'] = [train['Patient'].value_counts().loc[pid] for
pid in unique_patient_df['Patient']]

print('Number of data points: ' + str(len(unique_patient_df)))
print('----------------------')

for col in unique_patient_df.columns:
    print('{} : {} unique values, {} missing.'.format(col,
                                                      str(len(unique_patie
nt_df[col].unique())),
                                                      str(unique_patient_d
f[col].isna().sum())))
unique_patient_df.head()
```

```
Number of data points: 176
----------------------
Patient : 176 unique values, 0 missing.
Age : 34 unique values, 0 missing.
Age_Bins : 6 unique values, 1 missing.
Sex : 2 unique values, 0 missing.
SmokingStatus : 3 unique values, 0 missing.
# visits : 5 unique values, 0 missing.
```

Out[74]:

	Patient	Age	Age_Bins	Sex	SmokingStatus	# visits
0	ID00007637202177411956430	79	76-85	Male	Ex-smoker	9
1	ID00009637202177434476278	69	66-75	Male	Ex-smoker	9
2	ID00010637202177584971671	60	56-65	Male	Ex-smoker	9
3	ID00011637202177653955184	72	66-75	Male	Ex-smoker	9
4	ID00012637202177665765362	65	56-65	Male	Never smoked	9

In [75]:
```
#Convert to JPG and extracting all information in one go..

import pydicom as dicom
import matplotlib.pyplot as plt
import os
import cv2
import PIL # optional
import pandas as pd
import csv
# make it True if you want in PNG format
PNG = False
# Specify the .dcm folder path
folder_path = 'D:/Kaggle/Pulmonary Fibrosis/train/ID00007637202177411956430/'
# Specify the .jpg/.png folder path
jpg_folder_path = 'D:\Kaggle\Pulmonary Fibrosis\Train_wkg'
images_path = os.listdir(folder_path)
```

In [76]:
```
arr=dimg.pixel_array
```

In [77]:
```
arr
```

Out[77]:
```
array([[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]], dtype=uint16)
```

In [78]:
```
df_arr = pd.DataFrame(arr)
```

In [79]:
```
df_arr
```

Out[79]:

	0	1	2	3	4	5	6	7	8	9	...	502	503	504	505	506	507	508	509	510	51
0	0	0	0	0	0	0	0	0	0	0	...	0	0	0	0	0	0	0	0	0	(
1	0	0	0	0	0	0	0	0	0	0	...	0	0	0	0	0	0	0	0	0	(
2	0	0	0	0	0	0	0	0	0	0	...	0	0	0	0	0	0	0	0	0	(
3	0	0	0	0	0	0	0	0	0	0	...	0	0	0	0	0	0	0	0	0	(
4	0	0	0	0	0	0	0	0	0	0	...	0	0	0	0	0	0	0	0	0	(
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
507	0	0	0	0	0	0	0	0	0	0	...	0	0	0	0	0	0	0	0	0	(
508	0	0	0	0	0	0	0	0	0	0	...	0	0	0	0	0	0	0	0	0	(
509	0	0	0	0	0	0	0	0	0	0	...	0	0	0	0	0	0	0	0	0	(
510	0	0	0	0	0	0	0	0	0	0	...	0	0	0	0	0	0	0	0	0	(
511	0	0	0	0	0	0	0	0	0	0	...	0	0	0	0	0	0	0	0	0	(

512 rows × 512 columns

In [80]:
```
from glob import glob
```

In [81]:
```
PATH_dicom = os.path.abspath(os.path.join('D:/Kaggle/Pulmonary Fibrosis', 'Tra
in_jpg'))
```

In [82]:
```
images_dicom = glob(os.path.join(PATH_dicom, "*.jpg"))
```

In [83]:
```
images_dicom[0:5]
```

Out[83]:
```
['D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg\\0044_001.jpg',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg\\0044_002.jpg',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg\\0044_003.jpg',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg\\0044_004.jpg',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg\\0044_005.jpg']
```

In [84]:
```
images_dicom[0:5]
```

Out[84]:
```
['D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg\\0044_001.jpg',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg\\0044_002.jpg',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg\\0044_003.jpg',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg\\0044_004.jpg',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg\\0044_005.jpg']
```

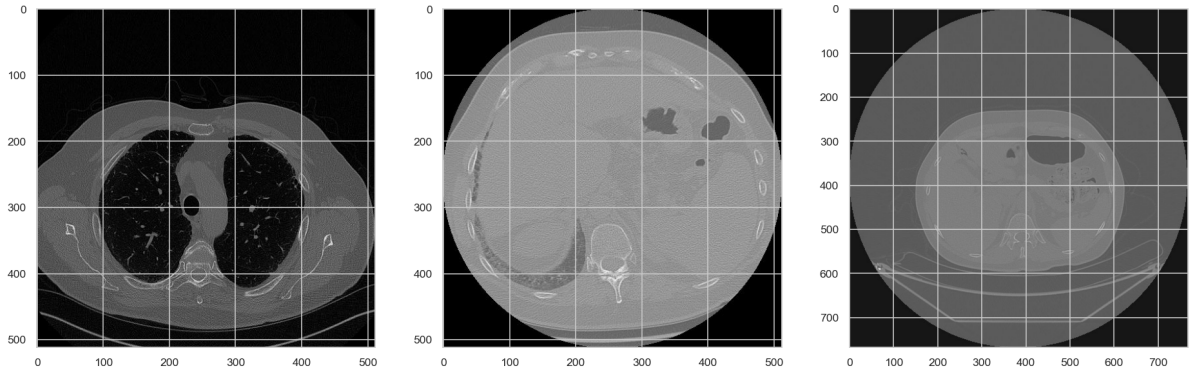
In [85]:
```
r = random.sample(images_dicom, 3)
r
```

Out[85]:
```
['D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg\\8088_298.jpg',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg\\5491_100.jpg',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg\\9443_0457.jpg']
```

In [86]:
```
plt.figure(figsize=(16,16))
plt.subplot(131)
plt.imshow(cv2.imread(r[0]))

plt.subplot(132)
plt.imshow(cv2.imread(r[1]))

plt.subplot(133)
plt.imshow(cv2.imread(r[2]));
```



In [87]:
```
%pwd
```

Out[87]:
```
'D:\\Kaggle\\Pulmonary Fibrosis'
```

In [88]:
```
submission = pd.read_csv('sample_submission.csv')
```

In [89]:
```
train.drop_duplicates(keep=False, inplace=True, subset=['Patient','Weeks'])
```

In [90]:
```
train
```

Out[90]:

	Patient	Weeks	FVC	Percent	Age	Age_Bins	Sex	SmokingStatu
0	ID00007637202177411956430	-4	2315	58.253649	79	76-85	Male	Ex-smoke
1	ID00007637202177411956430	5	2214	55.712129	79	76-85	Male	Ex-smoke
2	ID00007637202177411956430	7	2061	51.862104	79	76-85	Male	Ex-smoke
3	ID00007637202177411956430	9	2144	53.950679	79	76-85	Male	Ex-smoke
4	ID00007637202177411956430	11	2069	52.063412	79	76-85	Male	Ex-smoke
...	...	...	...	...	...	...	...	.
1544	ID00426637202313170790466	13	2712	66.594637	73	66-75	Male	Never smoke
1545	ID00426637202313170790466	19	2978	73.126412	73	66-75	Male	Never smoke
1546	ID00426637202313170790466	31	2908	71.407524	73	66-75	Male	Never smoke
1547	ID00426637202313170790466	43	2975	73.052745	73	66-75	Male	Never smoke
1548	ID00426637202313170790466	59	2774	68.117081	73	66-75	Male	Never smoke

1535 rows × 8 columns

In [91]:
```
submission
```

Out[91]:

	Patient_Week	FVC	Confidence
0	ID00419637202311204720264_-12	2000	100
1	ID00421637202311550012437_-12	2000	100
2	ID00422637202311677017371_-12	2000	100
3	ID00423637202312137826377_-12	2000	100
4	ID00426637202313170790466_-12	2000	100
...	...	...	...
725	ID00419637202311204720264_133	2000	100
726	ID00421637202311550012437_133	2000	100
727	ID00422637202311677017371_133	2000	100
728	ID00423637202312137826377_133	2000	100
729	ID00426637202313170790466_133	2000	100

730 rows × 3 columns

In [92]:
```
submission['Patient'] = (
    submission['Patient_Week']
    .apply(
        lambda x:x.split('_')[0]
    )
)

submission['Weeks'] = (
    submission['Patient_Week']
    .apply(
        lambda x: int(x.split('_')[-1])
    )
)

submission = submission[['Patient','Weeks','FVC', 'Confidence','Patient_Week'
]]

submission = submission.merge(test.drop('Weeks', axis=1), on="Patient")
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
<ipython-input-92-f37973750848> in <module>
     15 submission =  submission[['Patient','Weeks','FVC', 'Confidence','Pati
ent_Week']]
     16
---> 17 submission = submission.merge(test.drop('Weeks', axis=1), on="Patien
t")

AttributeError: 'function' object has no attribute 'drop'
```

In [93]:
```
submission
```

Out[93]:

	Patient	Weeks	FVC	Confidence	Patient_Week
0	ID00419637202311204720264	-12	2000	100	ID00419637202311204720264_-12
1	ID00421637202311550012437	-12	2000	100	ID00421637202311550012437_-12
2	ID00422637202311677017371	-12	2000	100	ID00422637202311677017371_-12
3	ID00423637202312137826377	-12	2000	100	ID00423637202312137826377_-12
4	ID00426637202313170790466	-12	2000	100	ID00426637202313170790466_-12
...	...	...	...	...	...
725	ID00419637202311204720264	133	2000	100	ID00419637202311204720264_133
726	ID00421637202311550012437	133	2000	100	ID00421637202311550012437_133
727	ID00422637202311677017371	133	2000	100	ID00422637202311677017371_133
728	ID00423637202312137826377	133	2000	100	ID00423637202312137826377_133
729	ID00426637202313170790466	133	2000	100	ID00426637202313170790466_133

730 rows × 5 columns

In [97]:
```
test
```

Out[97]:

	Patient	Weeks	FVC	Percent	Age	Sex	SmokingStatus
0	ID00419637202311204720264	6	3020	70.186855	73	Male	Ex-smoker
1	ID00421637202311550012437	15	2739	82.045291	68	Male	Ex-smoker
2	ID00422637202311677017371	6	1930	76.672493	73	Male	Ex-smoker
3	ID00423637202312137826377	17	3294	79.258903	72	Male	Ex-smoker
4	ID00426637202313170790466	0	2925	71.824968	73	Male	Never smoked

In [98]:
```
train['Dataset'] = 'train'
test['Dataset'] = 'test'
submission['Dataset'] = 'submission'
```

In [99]:
```
submission
```

Out[99]:

	Patient	Weeks	FVC	Confidence	Patient_Week	
0	ID00419637202311204720264	-12	2000	100	ID00419637202311204720264_-12	sul
1	ID00421637202311550012437	-12	2000	100	ID00421637202311550012437_-12	sul
2	ID00422637202311677017371	-12	2000	100	ID00422637202311677017371_-12	sul
3	ID00423637202312137826377	-12	2000	100	ID00423637202312137826377_-12	sul
4	ID00426637202313170790466	-12	2000	100	ID00426637202313170790466_-12	sul
...	...	...	...	...	...	
725	ID00419637202311204720264	133	2000	100	ID00419637202311204720264_133	sul
726	ID00421637202311550012437	133	2000	100	ID00421637202311550012437_133	sul
727	ID00422637202311677017371	133	2000	100	ID00422637202311677017371_133	sul
728	ID00423637202312137826377	133	2000	100	ID00423637202312137826377_133	sul
729	ID00426637202313170790466	133	2000	100	ID00426637202313170790466_133	sul

730 rows × 6 columns

In [100]:
```
all_data = train.append([test, submission])

all_data = all_data.reset_index()
all_data = all_data.drop(columns=['index'])
```

In [101]:
```
all_data.head()
```

Out[101]:

	Patient	Weeks	FVC	Percent	Age	Age_Bins	Sex	SmokingStatus
0	ID00007637202177411956430	-4	2315	58.253649	79.0	76-85	Male	Ex-smoker
1	ID00007637202177411956430	5	2214	55.712129	79.0	76-85	Male	Ex-smoker
2	ID00007637202177411956430	7	2061	51.862104	79.0	76-85	Male	Ex-smoker
3	ID00007637202177411956430	9	2144	53.950679	79.0	76-85	Male	Ex-smoker
4	ID00007637202177411956430	11	2069	52.063412	79.0	76-85	Male	Ex-smoker

In [102]:
```
all_data['FirstWeek'] = all_data['Weeks']
all_data.loc[all_data.Dataset=='submission','FirstWeek'] = np.nan
all_data['FirstWeek'] = all_data.groupby('Patient')['FirstWeek'].transform('mi
n')
```

In [103]:
```
first_fvc = (
    all_data
    .loc[all_data.Weeks == all_data.FirstWeek][['Patient','FVC']]
    .rename({'FVC': 'FirstFVC'}, axis=1)
    .groupby('Patient')
    .first()
    .reset_index()
)

all_data = all_data.merge(first_fvc, on='Patient', how='left')
```

In [104]:
```
all_data.head()
```

Out[104]:

	Patient	Weeks	FVC	Percent	Age	Age_Bins	Sex	SmokingStatus
0	ID00007637202177411956430	-4	2315	58.253649	79.0	76-85	Male	Ex-smoker
1	ID00007637202177411956430	5	2214	55.712129	79.0	76-85	Male	Ex-smoker
2	ID00007637202177411956430	7	2061	51.862104	79.0	76-85	Male	Ex-smoker
3	ID00007637202177411956430	9	2144	53.950679	79.0	76-85	Male	Ex-smoker
4	ID00007637202177411956430	11	2069	52.063412	79.0	76-85	Male	Ex-smoker

In [105]:
```
all_data
```

Out[105]:

	Patient	Weeks	FVC	Percent	Age	Age_Bins	Sex	SmokingStatu
0	ID00007637202177411956430	-4	2315	58.253649	79.0	76-85	Male	Ex-smoke
1	ID00007637202177411956430	5	2214	55.712129	79.0	76-85	Male	Ex-smoke
2	ID00007637202177411956430	7	2061	51.862104	79.0	76-85	Male	Ex-smoke
3	ID00007637202177411956430	9	2144	53.950679	79.0	76-85	Male	Ex-smoke
4	ID00007637202177411956430	11	2069	52.063412	79.0	76-85	Male	Ex-smoke
...	...	...	...	...	...	...	...	.
2265	ID00419637202311204720264	133	2000	NaN	NaN	NaN	NaN	Na
2266	ID00421637202311550012437	133	2000	NaN	NaN	NaN	NaN	Na
2267	ID00422637202311677017371	133	2000	NaN	NaN	NaN	NaN	Na
2268	ID00423637202312137826377	133	2000	NaN	NaN	NaN	NaN	Na
2269	ID00426637202313170790466	133	2000	NaN	NaN	NaN	NaN	Na

2270 rows × 13 columns

In [106]:
```
all_data['WeeksPassed'] = all_data['Weeks'] - all_data['FirstWeek']
```

In [107]:
```
all_data
```

Out[107]:

	Patient	Weeks	FVC	Percent	Age	Age_Bins	Sex	SmokingStatu
0	ID00007637202177411956430	-4	2315	58.253649	79.0	76-85	Male	Ex-smoke
1	ID00007637202177411956430	5	2214	55.712129	79.0	76-85	Male	Ex-smoke
2	ID00007637202177411956430	7	2061	51.862104	79.0	76-85	Male	Ex-smoke
3	ID00007637202177411956430	9	2144	53.950679	79.0	76-85	Male	Ex-smoke
4	ID00007637202177411956430	11	2069	52.063412	79.0	76-85	Male	Ex-smoke
...	...	...	...	...	...	...	...	.
2265	ID00419637202311204720264	133	2000	NaN	NaN	NaN	NaN	Na
2266	ID00421637202311550012437	133	2000	NaN	NaN	NaN	NaN	Na
2267	ID00422637202311677017371	133	2000	NaN	NaN	NaN	NaN	Na
2268	ID00423637202312137826377	133	2000	NaN	NaN	NaN	NaN	Na
2269	ID00426637202313170790466	133	2000	NaN	NaN	NaN	NaN	Na

2270 rows × 14 columns

In [108]:
```
#Calculating derived field of height from First FVC value
# Reference - https://en.wikipedia.org/wiki/Vital_capacity#:~:text=It%20is%20equal%20to%20the,a%20wet%20or%20regular%20spirometer

def calculate_height(row):
    if row['Sex'] == 'Male':
        return row['FirstFVC'] / (27.63 - 0.112 * row['Age'])
    else:
        return row['FirstFVC'] / (21.78 - 0.101 * row['Age'])

all_data['Height'] = all_data.apply(calculate_height, axis=1)
```

In [109]:
```
all_data.head()
```

Out[109]:

	Patient	Weeks	FVC	Percent	Age	Age_Bins	Sex	SmokingStatus
0	ID00007637202177411956430	-4	2315	58.253649	79.0	76-85	Male	Ex-smoker
1	ID00007637202177411956430	5	2214	55.712129	79.0	76-85	Male	Ex-smoker
2	ID00007637202177411956430	7	2061	51.862104	79.0	76-85	Male	Ex-smoker
3	ID00007637202177411956430	9	2144	53.950679	79.0	76-85	Male	Ex-smoker
4	ID00007637202177411956430	11	2069	52.063412	79.0	76-85	Male	Ex-smoker

In [110]:
```
all_data = pd.concat([
    all_data,
    pd.get_dummies(all_data.Sex),
    pd.get_dummies(all_data.SmokingStatus)
], axis=1)

all_data = all_data.drop(columns=['Sex', 'SmokingStatus'])
```

In [111]:
```
all_data.head()
```

Out[111]:

	Patient	Weeks	FVC	Percent	Age	Age_Bins	Dataset	Confidence	P
0	ID00007637202177411956430	-4	2315	58.253649	79.0	76-85	train	NaN	
1	ID00007637202177411956430	5	2214	55.712129	79.0	76-85	train	NaN	
2	ID00007637202177411956430	7	2061	51.862104	79.0	76-85	train	NaN	
3	ID00007637202177411956430	9	2144	53.950679	79.0	76-85	train	NaN	
4	ID00007637202177411956430	11	2069	52.063412	79.0	76-85	train	NaN	

In [112]:
```
def scale_feature(series):
    return (series - series.min()) / (series.max() - series.min())

all_data['Percent'] = scale_feature(all_data['Percent'])
all_data['Age'] = scale_feature(all_data['Age'])
all_data['FirstWeek'] = scale_feature(all_data['FirstWeek'])
all_data['FirstFVC'] = scale_feature(all_data['FirstFVC'])
all_data['WeeksPassed'] = scale_feature(all_data['WeeksPassed'])
all_data['Height'] = scale_feature(all_data['Height'])
```

In [113]:
```
 feature_columns = [
    'Percent',
    'Age',
    'FirstWeek',
    'FirstFVC',
    'WeeksPassed',
    'Height',
    'Female',
    'Male',
    'Currently smokes',
    'Ex-smoker',
    'Never smoked',
]
```

In [114]:
```
train_new = all_data.loc[all_data.Dataset == 'train']
test_new = all_data.loc[all_data.Dataset == 'test']
submission_new = all_data.loc[all_data.Dataset == 'submission']
```

In [115]:
```
train_new[feature_columns].head()
```

Out[115]:

	Percent	Age	FirstWeek	FirstFVC	WeeksPassed	Height	Female	Male	Currently smokes	s
0	0.236393	0.769231	0.011905	0.241456	0.179012	0.211783	0	1	0	
1	0.215941	0.769231	0.011905	0.241456	0.234568	0.211783	0	1	0	
2	0.184960	0.769231	0.011905	0.241456	0.246914	0.211783	0	1	0	
3	0.201767	0.769231	0.011905	0.241456	0.259259	0.211783	0	1	0	
4	0.186580	0.769231	0.011905	0.241456	0.271605	0.211783	0	1	0	

In [116]:
```
train_new
```

Out[116]:

	Patient	Weeks	FVC	Percent	Age	Age_Bins	Dataset	Confide
0	ID00007637202177411956430	-4	2315	0.236393	0.769231	76-85	train	
1	ID00007637202177411956430	5	2214	0.215941	0.769231	76-85	train	
2	ID00007637202177411956430	7	2061	0.184960	0.769231	76-85	train	
3	ID00007637202177411956430	9	2144	0.201767	0.769231	76-85	train	
4	ID00007637202177411956430	11	2069	0.186580	0.769231	76-85	train	
...	...	...	...	...	...	...	...	
1530	ID00426637202313170790466	13	2712	0.303514	0.615385	66-75	train	
1531	ID00426637202313170790466	19	2978	0.356076	0.615385	66-75	train	
1532	ID00426637202313170790466	31	2908	0.342244	0.615385	66-75	train	
1533	ID00426637202313170790466	43	2975	0.355484	0.615385	66-75	train	
1534	ID00426637202313170790466	59	2774	0.315766	0.615385	66-75	train	

1535 rows × 18 columns

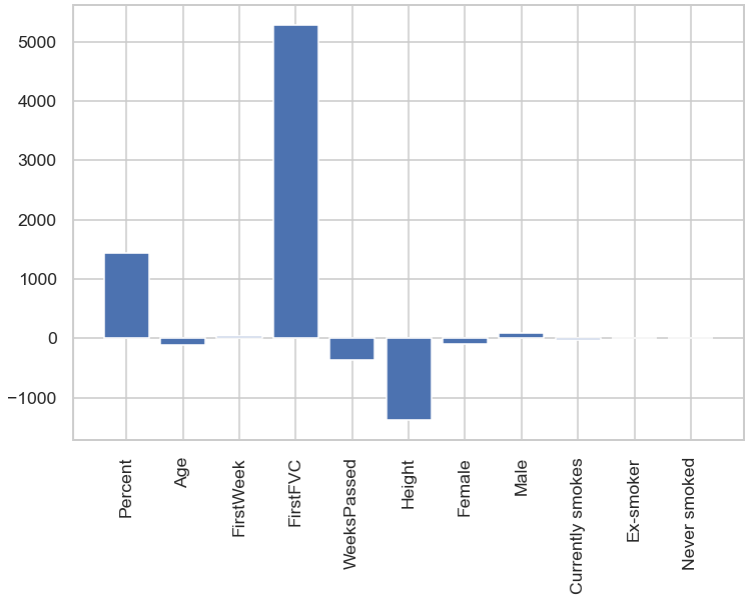
In [117]:
```
import sklearn
from sklearn import linear_model
```

In [118]:
```
model = linear_model.LinearRegression()
```

In [119]:
```
model.fit(train_new[feature_columns], train_new['FVC'])
```

Out[119]:
```
LinearRegression()
```

In [120]:
```
plt.bar(train_new[feature_columns].columns.values, model.coef_)
plt.xticks(rotation=90)
plt.show()
```



In [121]:
```
from sklearn import linear_model, ensemble
from sklearn.metrics import mean_squared_error, mean_absolute_error
```

In [122]:
```
predictions = model.predict(train_new[feature_columns])

mse = mean_squared_error(
    train['FVC'],
    predictions,
    squared=False
)

mae = mean_absolute_error(
    train['FVC'],
    predictions
)

print('MSE Loss: {0:.2f}'.format(mse))
print('MAE Loss: {0:.2f}'.format(mae))
```

```
MSE Loss: 174.56
MAE Loss: 131.29
```

In [123]:
```
print (model.coef_)
```

```
[ 1432.96984201  -109.4087028     48.13747128  5275.88362826
  -360.18825374 -1381.40752995   -85.7936867     85.7936867
   -20.05586304     8.33861535    11.71724769]
```

In [124]:
```
print (model.intercept_)
```

```
889.9243532046094
```

In [125]:
```
# Rsquare value for the model

model.score(train_new[feature_columns], train_new['FVC'])
```

Out[125]:
```
0.9562808027170113
```

In [126]:
```
X = train_new[feature_columns]
```

In [127]:
```
Y = train_new['FVC']
```

In [128]:
```
X
```

Out[128]:

	Percent	Age	FirstWeek	FirstFVC	WeeksPassed	Height	Female	Male	Currently smokes
0	0.236393	0.769231	0.011905	0.241456	0.179012	0.211783	0	1	0
1	0.215941	0.769231	0.011905	0.241456	0.234568	0.211783	0	1	0
2	0.184960	0.769231	0.011905	0.241456	0.246914	0.211783	0	1	0
3	0.201767	0.769231	0.011905	0.241456	0.259259	0.211783	0	1	0
4	0.186580	0.769231	0.011905	0.241456	0.271605	0.211783	0	1	0
...	...	...	...	...	...	...	...	...	...
1530	0.303514	0.615385	0.059524	0.354755	0.259259	0.317560	0	1	0
1531	0.356076	0.615385	0.059524	0.354755	0.296296	0.317560	0	1	0
1532	0.342244	0.615385	0.059524	0.354755	0.370370	0.317560	0	1	0
1533	0.355484	0.615385	0.059524	0.354755	0.444444	0.317560	0	1	0
1534	0.315766	0.615385	0.059524	0.354755	0.543210	0.317560	0	1	0

1535 rows × 11 columns

In [129]:
```
import statsmodels.formula.api as smf
```

In [130]:
```
model_smf_1 = smf.ols(formula='Y~X',data = train_new).fit()
```

In [131]:
```
train_new['prediction'] = predictions
```

In [132]:
```
predictions
```

Out[132]:
```
array([2156.07123938, 2106.75374148, 2057.91116081, ..., 2712.96054816,
       2705.25148658, 2612.76268862])
```

In [133]:
```
model_smf_1.params
```

Out[133]:
```
Intercept     485.413284
X[0]         1432.969842
X[1]         -109.408703
X[2]           48.137471
X[3]         5275.883628
X[4]         -360.188254
X[5]        -1381.407530
X[6]          156.912955
X[7]          328.500328
X[8]          141.748565
X[9]          170.143043
X[10]         173.521676
dtype: float64
```

In [134]:
```
prediction_smf = model_smf_1.predict(train_new[feature_columns])
```

In [135]:
```
model_smf_1.summary()
```

Out[135]:

OLS Regression Results

Dep. Variable:	Y	**R-squared:**	0.956
Model:	OLS	**Adj. R-squared:**	0.956
Method:	Least Squares	**F-statistic:**	3706.
Date:	Tue, 15 Sep 2020	**Prob (F-statistic):**	0.00
Time:	08:45:59	**Log-Likelihood:**	-10102.
No. Observations:	1535	**AIC:**	2.022e+04
Df Residuals:	1525	**BIC:**	2.028e+04
Df Model:	9		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
Intercept	485.4133	18.376	26.415	0.000	449.368	521.459
X[0]	1432.9698	51.978	27.569	0.000	1331.015	1534.925
X[1]	-109.4087	44.002	-2.486	0.013	-195.719	-23.099
X[2]	48.1375	24.982	1.927	0.054	-0.866	97.140
X[3]	5275.8836	313.094	16.851	0.000	4661.743	5890.024
X[4]	-360.1883	42.083	-8.559	0.000	-442.734	-277.642
X[5]	-1381.4075	291.586	-4.738	0.000	-1953.359	-809.457
X[6]	156.9130	16.953	9.255	0.000	123.658	190.168
X[7]	328.5003	27.756	11.835	0.000	274.056	382.945
X[8]	141.7486	16.276	8.709	0.000	109.823	173.674
X[9]	170.1430	9.514	17.883	0.000	151.481	188.805
X[10]	173.5217	10.407	16.674	0.000	153.108	193.935

Omnibus:	212.906	**Durbin-Watson:**	0.702
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	524.524
Skew:	-0.769	**Prob(JB):**	1.26e-114
Kurtosis:	5.416	**Cond. No.**	2.54e+16

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
[2] The smallest eigenvalue is 7.05e-30. This might indicate that there are
strong multicollinearity problems or that the design matrix is singular.

In [136]:
```
prediction_smf
```

Out[136]:
```
0       2156.071239
1       2106.753741
2       2057.911161
3       2077.548395
4       2051.338973
           ...
1530    2697.482603
1531    2759.462182
1532    2712.960548
1533    2705.251487
1534    2612.762689
Length: 1535, dtype: float64
```

In [137]:
```
predictions
```

Out[137]:
```
array([2156.07123938, 2106.75374148, 2057.91116081, ..., 2712.96054816,
       2705.25148658, 2612.76268862])
```

In [138]:
```
prds_1_sklearn = pd.DataFrame(predictions)
```

In [139]:
```
prds_1_sklearn
```

Out[139]:

	0
0	2156.071239
1	2106.753741
2	2057.911161
3	2077.548395
4	2051.338973
...	...
1530	2697.482603
1531	2759.462182
1532	2712.960548
1533	2705.251487
1534	2612.762689

1535 rows × 1 columns

In [140]:
```
prds_2_statstools = pd.DataFrame(prediction_smf)
```

In [141]:
```
prds_2_statstools
```

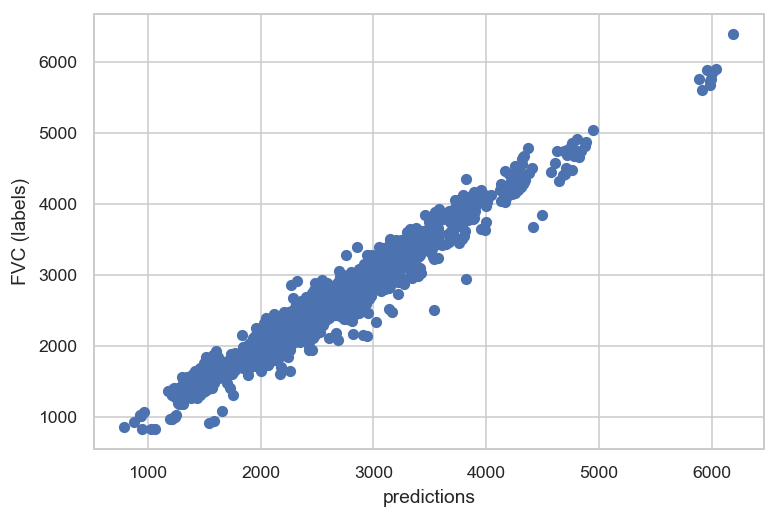
Out[141]:

	0
0	2156.071239
1	2106.753741
2	2057.911161
3	2077.548395
4	2051.338973
...	...
1530	2697.482603
1531	2759.462182
1532	2712.960548
1533	2705.251487
1534	2612.762689

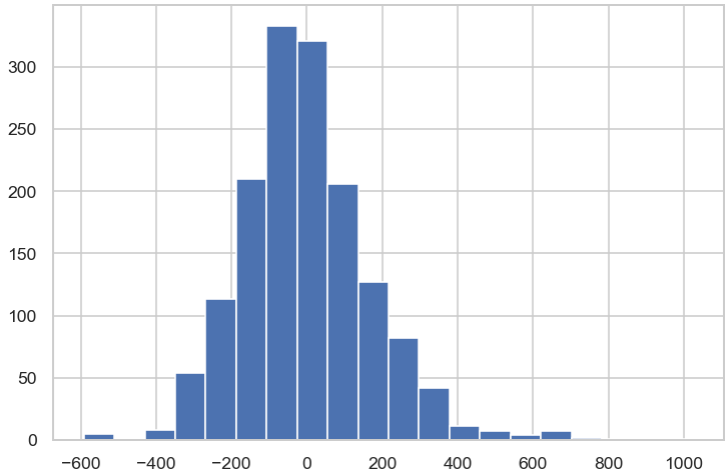
1535 rows × 1 columns

In [142]:
```
plt.scatter(predictions, train_new['FVC'])

plt.xlabel('predictions')
plt.ylabel('FVC (labels)')
plt.show()
```



In [143]:
```
delta = predictions - train_new['FVC']
plt.hist(delta, bins=20)
plt.show()
```



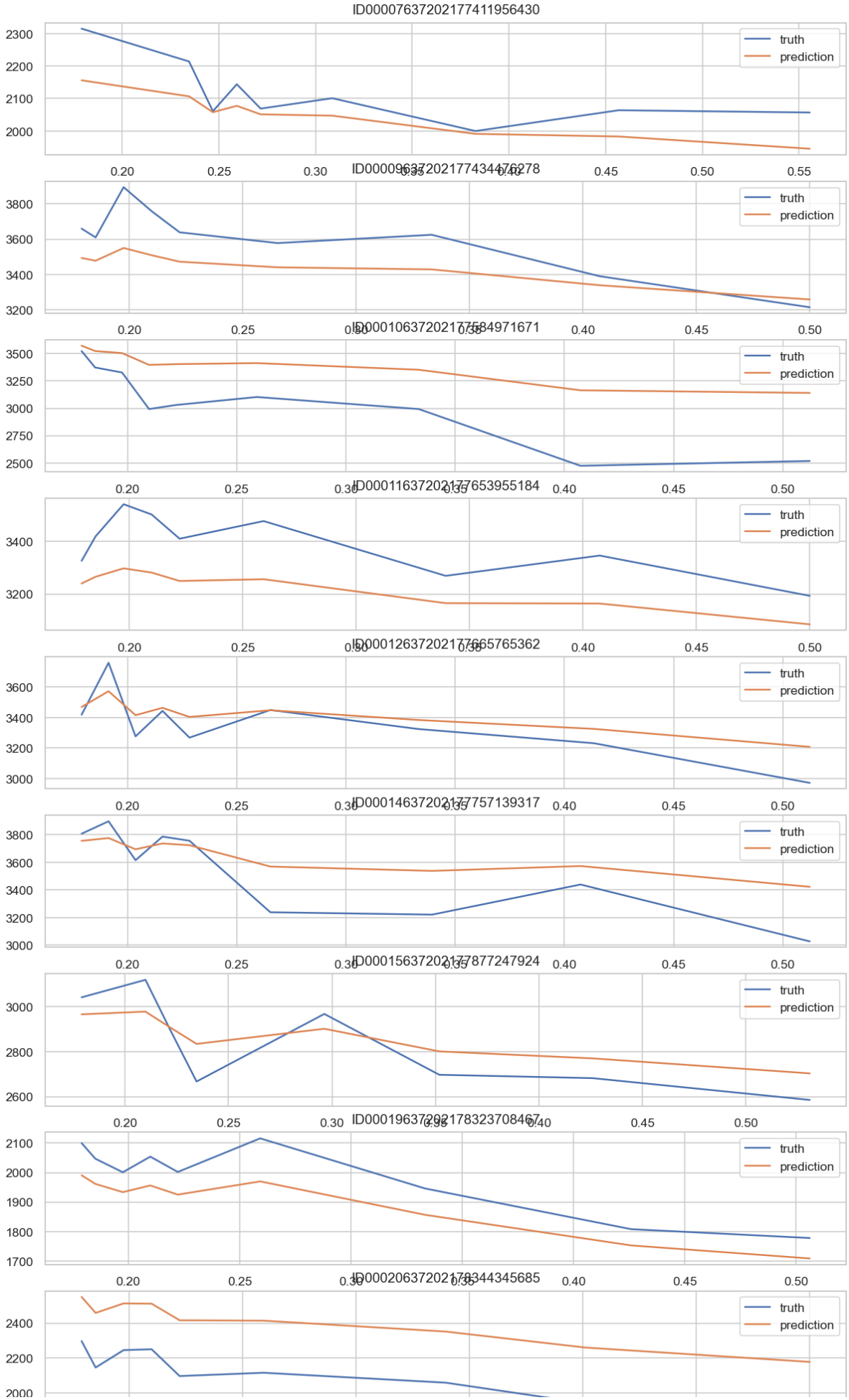
In [144]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

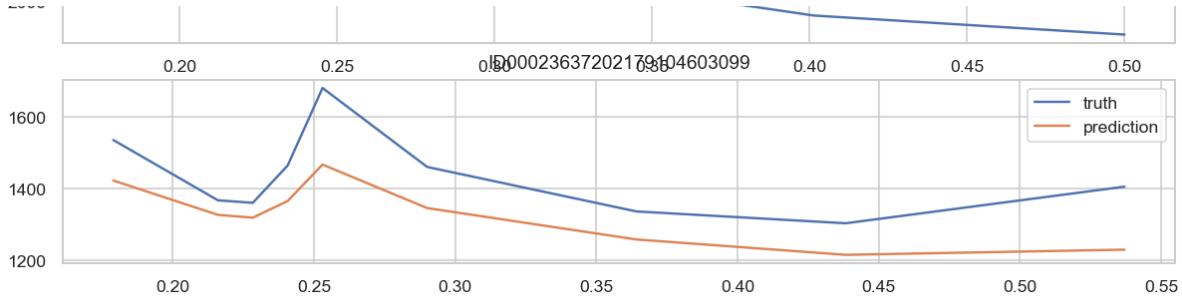
In [145]:
```
train_patients = train_new.Patient.unique()
```

In [146]:
```
fig, ax = plt.subplots(10, 1, figsize=(10, 20))

for i in range(10):
    patient_log = train_new[train_new['Patient'] == train_patients[i]]

    ax[i].set_title(train_patients[i])
    ax[i].plot(patient_log['WeeksPassed'], patient_log['FVC'], label='truth')
    ax[i].plot(patient_log['WeeksPassed'], patient_log['prediction'], label='p
rediction')
    ax[i].legend()
```


ID0000763720217741195643 0
truth
prediction
ID0000963720217743447627 8
truth
prediction
ID0001063720217758497167 1
truth
prediction
ID0001163720217765395518 4
truth
prediction
ID0001263720217766576536 2
truth
prediction
ID0001463720217775713931 7
truth
prediction
ID0001563720217787724792 4
truth
prediction
ID0001963720217832370846 7
truth
prediction
ID0002063720217834434568 5
truth
prediction



In [149]:
```
submission_new
```

Out[149]:

	Patient	Weeks	FVC	Percent	Age	Age_Bins	Dataset	Confidenc
1540	ID00419637202311204720264	-12	2000	NaN	NaN	NaN	submission	100.
1541	ID00421637202311550012437	-12	2000	NaN	NaN	NaN	submission	100.
1542	ID00422637202311677017371	-12	2000	NaN	NaN	NaN	submission	100.
1543	ID00423637202312137826377	-12	2000	NaN	NaN	NaN	submission	100.
1544	ID00426637202313170790466	-12	2000	NaN	NaN	NaN	submission	100.
...	...	...	...	...	...	...	...	.
2265	ID00419637202311204720264	133	2000	NaN	NaN	NaN	submission	100.
2266	ID00421637202311550012437	133	2000	NaN	NaN	NaN	submission	100.
2267	ID00422637202311677017371	133	2000	NaN	NaN	NaN	submission	100.
2268	ID00423637202312137826377	133	2000	NaN	NaN	NaN	submission	100.
2269	ID00426637202313170790466	133	2000	NaN	NaN	NaN	submission	100.

730 rows × 18 columns

train_new

In [152]:
```
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestRegressor
from sklearn import metrics
%matplotlib inline
```

In [153]:
```
X_train, X_test, Y_train, Y_test = train_test_split(X, Y, test_size=0.3, rando
m_state=0)
```

In [154]:
```
#Create a Gaussian Classifier
regr=RandomForestRegressor(random_state=0)
#Train the model using the training sets Y_pred=clf.predict(X_test)
regr.fit(X_train,Y_train)
```

Out[154]:
```
RandomForestRegressor(random_state=0)
```

In [155]:
```
regr.n_estimators
```

Out[155]:
```
100
```

In [156]:
```
regr.estimators_[5]
```

Out[156]:
```
DecisionTreeRegressor(max_features='auto', random_state=1537364731)
```

In [157]:
```
regr.get_params()
```

Out[157]:
```
{'bootstrap': True,
 'ccp_alpha': 0.0,
 'criterion': 'mse',
 'max_depth': None,
 'max_features': 'auto',
 'max_leaf_nodes': None,
 'max_samples': None,
 'min_impurity_decrease': 0.0,
 'min_impurity_split': None,
 'min_samples_leaf': 1,
 'min_samples_split': 2,
 'min_weight_fraction_leaf': 0.0,
 'n_estimators': 100,
 'n_jobs': None,
 'oob_score': False,
 'random_state': 0,
 'verbose': 0,
 'warm_start': False}
```

In [158]:
```
regr.feature_importances_
```

Out[158]:
```
array([4.36924399e-02, 6.24353124e-03, 5.51892216e-03, 9.03853102e-01,
       6.92138706e-03, 3.15339306e-02, 3.63698712e-04, 3.42497128e-04,
       5.90024714e-04, 4.87455754e-04, 4.53010823e-04])
```

In [162]:
```
Y_pred = regr.predict(X_test)
```

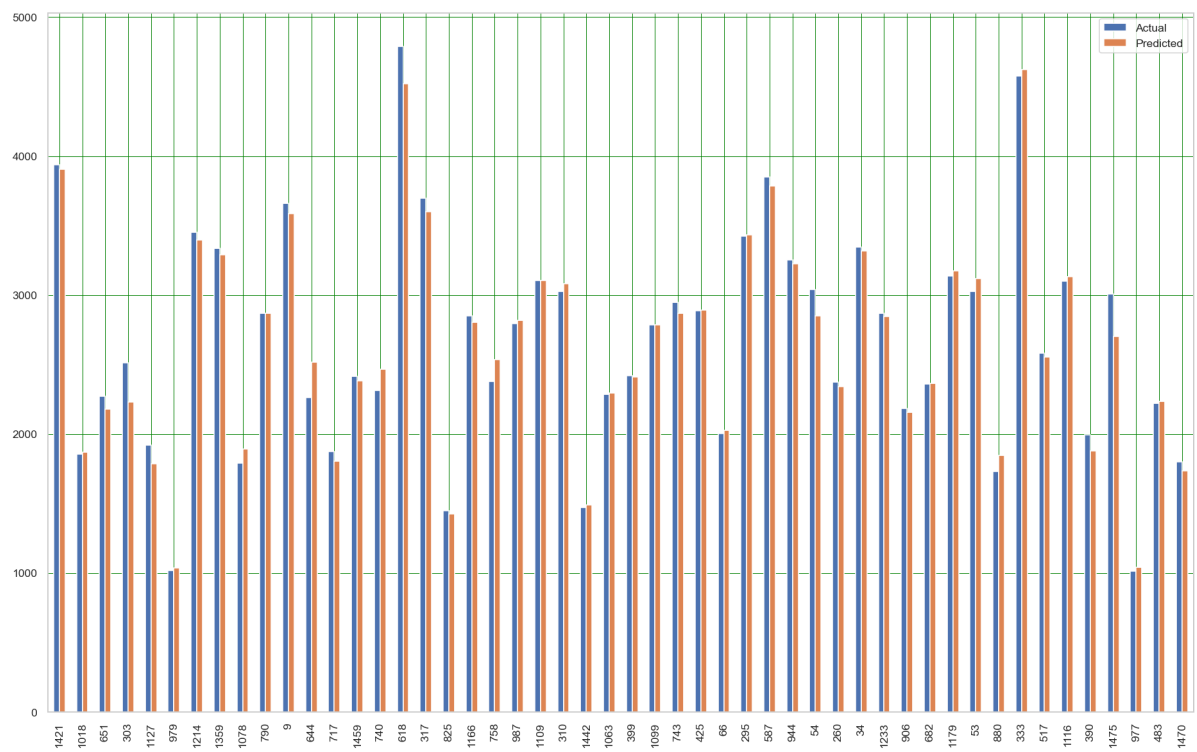
In [163]:
```
df = pd.DataFrame({'Actual': Y_test, 'Predicted': Y_pred})
df
```

Out[163]:

	Actual	Predicted
1421	3936	3907.40
1018	1854	1868.13
651	2272	2181.26
303	2511	2231.14
1127	1919	1787.25
...	...	...
243	2354	2403.05
494	2266	2263.73
401	2181	2248.50
572	3742	3917.88
1309	2416	2454.21

461 rows × 2 columns

In [164]:
```
df1 = df.head(50)
df1.plot(kind='bar',figsize=(16,10))
plt.grid(which='major', linestyle='-', linewidth='0.5', color='green')
plt.grid(which='minor', linestyle=':', linewidth='0.5', color='black')
plt.show()
```



In [165]:
```
import os
os.environ["PATH"] += os.pathsep + 'C:/Program Files (x86)/Graphviz2.38/bin/'
```

In [166]:
```
from sklearn.tree import export_graphviz
import pydot
```

In [167]:
```
tree = regr.estimators_[5]
```

In [168]:
```
export_graphviz(tree,out_file = 'tree.dot',
                feature_names = X.columns,
                filled = True,
                rounded = True,precision = 1)
```

In [169]:
```
(graph, ) = pydot.graph_from_dot_file('tree.dot')
```

In [170]:
```
graph
```

Out[170]:
```
<pydot.Dot at 0x23715eb15c8>
```

In [171]:
```
import os
os.environ["PATH"] += os.pathsep + 'C:/Program Files (x86)/Graphviz2.38/bin/'
```

In [172]:
```
graph.write_png('tree_graph.png')
```

In [173]:
```
errors_test = abs(Y_pred - Y_test)
```

In [174]:
```
# Display the performance metrics
print('Mean Absolute Error:', round(np.mean(errors_test), 2), 'degrees.')
mape = np.mean(100 * (errors_test / Y_test))
accuracy = 100 - mape
print('Accuracy:', round(accuracy, 2), '%.')
```

```
Mean Absolute Error: 72.49 degrees.
Accuracy: 97.05 %.
```

In [175]:
```
Y_pred_train=regr.predict(X_train)
```

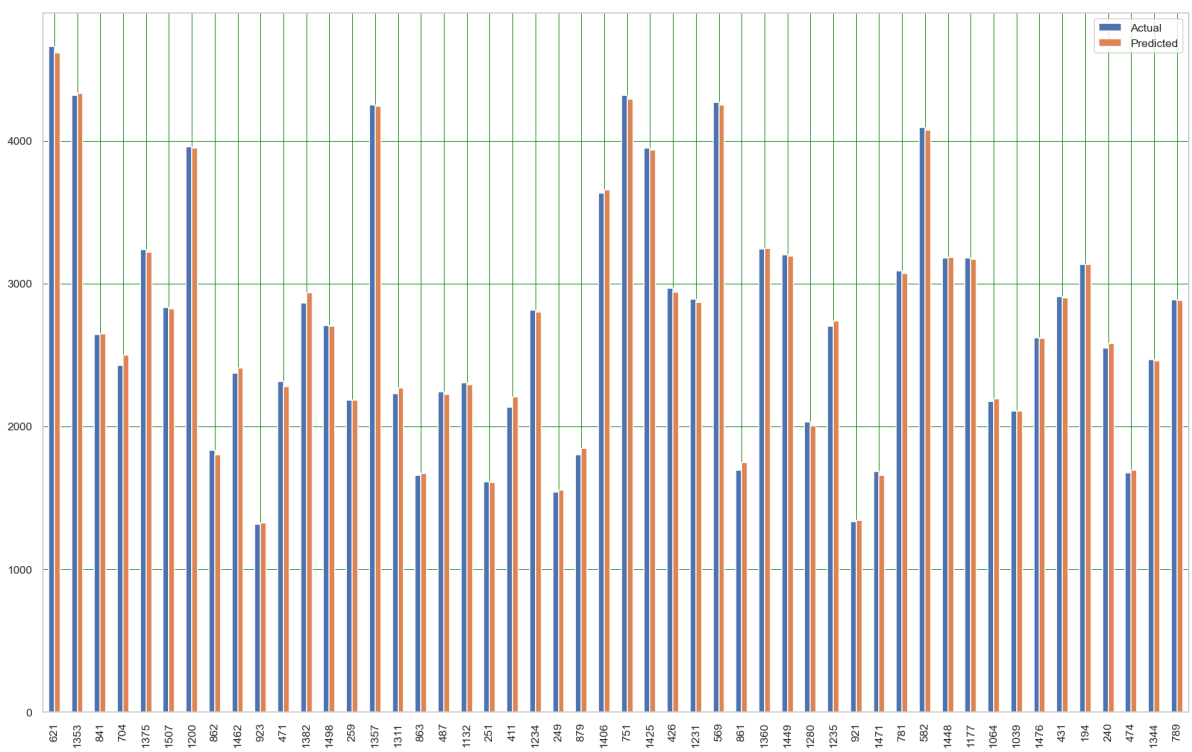
In [176]:
```
df2 = pd.DataFrame({'Actual': Y_train, 'Predicted': Y_pred_train})
df2
```

Out[176]:

	Actual	Predicted
621	4662	4616.99
1353	4319	4330.12
841	2643	2646.75
704	2428	2497.07
1375	3237	3218.34
...	...	...
763	2806	2745.46
835	2579	2572.74
1216	3254	3223.58
559	3278	3287.50
684	2346	2355.41

1074 rows × 2 columns

In [177]:
```
df3 = df2.head(50)
df3.plot(kind='bar',figsize=(16,10))
plt.grid(which='major', linestyle='-', linewidth='0.5', color='green')
plt.grid(which='minor', linestyle=':', linewidth='0.5', color='black')
plt.show()
```



In [178]:
```
errors_train = abs(Y_pred_train - Y_train)
```

In [179]:
```
# Display the performance metrics
print('Mean Absolute Error:', round(np.mean(errors_train), 2), 'degrees.')
mape_train = np.mean(100 * (errors_train / Y_train))
accuracy_train = 100 - mape_train
print('Accuracy:', round(accuracy_train, 2), '%.')
```

```
Mean Absolute Error: 27.91 degrees.
Accuracy: 98.87 %.
```

In [234]:
```
import cv2
import os
import random
import matplotlib.pylab as plt
from glob import glob
import pandas as pd
import numpy as np
from sklearn.model_selection import train_test_split
```

In [248]:
```
files_jpg = Path('D:/Kaggle/Pulmonary Fibrosis/Train_jpg1')
```

In [250]:
```
images_jpg = glob(os.path.join(files_jpg, "*.jpg"))
```

In [249]:
```
files_jpg
```

Out[249]:
```
Path('D:/Kaggle/Pulmonary Fibrosis/Train_jpg1')
```

In [252]:
```
images_jpg
```

Out[252]:
```
['D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00007637202177411956430_1.jp
g',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00007637202177411956430_10.jp
g',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00007637202177411956430_11.jp
g',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00007637202177411956430_12.jp
g',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00007637202177411956430_13.jp
g',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00007637202177411956430_14.jp
g',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00007637202177411956430_15.jp
g',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00007637202177411956430_16.jp
g',
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g',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00007637202177411956430_18.jp
g',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00007637202177411956430_19.jp
g',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00007637202177411956430_2.jp
g',
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g',
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g',
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g',
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g',
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g',
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g',
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g',
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g',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00007637202177411956430_4.jp
g',
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g',
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g',
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g',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00007637202177411956430_8.jp
```

```
g',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00007637202177411956430_9.jp
g',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00009637202177434476278_1.jp
g',
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g',
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pg',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00009637202177434476278_101.j
pg',
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pg',
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pg',
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pg',
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pg',
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pg',
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pg',
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pg',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00009637202177434476278_111.j
pg',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00009637202177434476278_112.j
pg',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00009637202177434476278_113.j
pg',
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pg',
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pg',
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pg',
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pg',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00009637202177434476278_119.j
pg',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00009637202177434476278_12.jp
g',
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00009637202177434476278_120.j
pg',
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pg',
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pg',
```

```
 'D:\\Kaggle\\Pulmonary Fibrosis\\Train_jpg1\\ID00009637202177434476278_123.j
pg',
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```

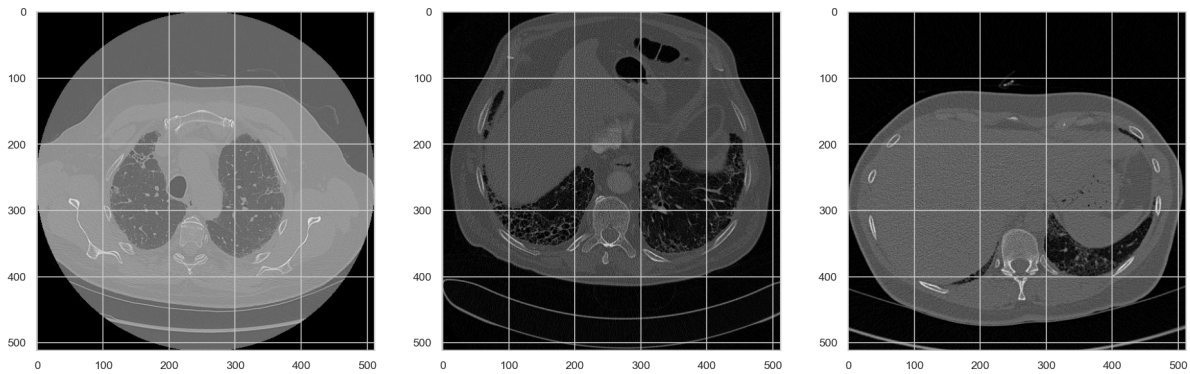
In [253]:

```
r_jpg = random.sample(images_jpg, 3)
r_jpg

# Matplotlib black magic
plt.figure(figsize=(16,16))
plt.subplot(131)
plt.imshow(cv2.imread(r_jpg[0]))

plt.subplot(132)
plt.imshow(cv2.imread(r_jpg[1]))

plt.subplot(133)
plt.imshow(cv2.imread(r_jpg[2]));
```



In [255]:

```
def proc_images():
    """
    Returns two arrays:
        x is an array of resized images
    """


    x = [] # images as arrays
    WIDTH = 64
    HEIGHT = 64

    for img in images_jpg:
        base = os.path.basename(images_jpg)

        # Read and resize image
        full_size_image = cv2.imread(images_jpg)
        x.append(cv2.resize(full_size_image, (WIDTH,HEIGHT), interpolation=cv2
.INTER_CUBIC))


    return x
```

In [261]:
```
from PIL import Image
```

In [267]:
```
IMG_DIR = 'D:/Kaggle/Pulmonary Fibrosis/Train_jpg1'

for img in os.listdir(IMG_DIR):
        img_array = cv2.imread(os.path.join(IMG_DIR,img), cv2.IMREAD_GRAYSCALE
)

        img_array = (img_array.flatten())

        img_array  = img_array.reshape(-1, 1).T

        print(img_array)
        with open('output.csv', 'ab') as f:

            np.savetxt(f, img_array, delimiter=",")
```

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In [281]:
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img_array.shape
```

Out[281]:
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(1, 262144)
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In [279]:
```
os.listdir(IMG_DIR)
```

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Out[279]: ['ID0000763720217741195643 0_1.jpg',
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