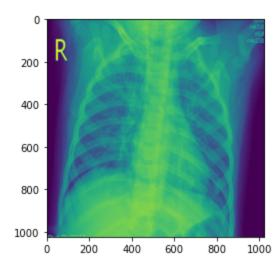
```
In [1]: from matplotlib import image as mp image
        import matplotlib.pyplot as plt
        import os
        %matplotlib inline
In [2]: #second class
        viral pneumonia images='XRays/Viral Pneumonia'
In [3]: #Create a function to iterate through the images of each folder, check file type
        #the size and the dimensions of each image also ensure that the file names are consistent,
        #make sure there are no major irregularities or unwanted patterns
        #to ensure correct learning from the upcoming model
        def show_images(image_folder):
            fig = plt.figure()
            %matplotlib inline
            file_names = os.listdir(image_folder)
            print('this folder contains {} files'.format(len(file_names)))
            img_num = 0
            for file_name in file_names:
                file_path = os.path.join(image_folder, file_name)
                # Open the file using the matplotlib.image library
                image = mp_image.imread(file_path)
                # Add the image to the figure (which will have 1 row, a column for each filename, and a position based on its index in the file_names list)
                a=fig.add_subplot(1, len(file_names), file_names.index(file_name)+1)
                # Add the image to the plot
                image_plot = plt.imshow(image)
                # Add a caption with the file name
                a.set_title(file_name)
                # Show filenames
                print('file name: ',file_name)
                # Show image shape
                print('shape: ',image.shape)
                # Show images
                plt.show()
                # Show the plot
```

In [4]: show_images(viral_pneumonia_images)

this folder contains 1345 files file name: Viral Pneumonia (1).png shape: (1024, 1024)



```
In [ ]: # we can these images are not as heavily annotated as
        # some of the covid images, you do see markings
        # though, aside from
        # top left hand markings like R which I saw repeatedly and
        # could be different from the covid images in quantity
        # and distribution
        # I would like to run a test one day with no markings
        # but these images are mostly clean, and on both sets there
        # are images to be classified that have no markings
        # so another aspect is recognizing features as the data set
        # grows and grows maybe these things become less important as
        # you gather higher numbers of both annotated and clean
        # images.
        # Also noted on these images is that the majority are much more
        # concentrated on ventral or dorsal views (I'm not
        # pretending to be a domain expert at all!
        # but they are definitely more focused on the chest
        # area, something that again might become less of a concern
        # as the dataset grows, but considering this is the larger data
        # set, it might be a good consideration to put more lateral images,
        # just to make sure the image angles are consistent as well from
        # data set to data set between the classes.
        # Last notable difference in this set is that the images
        # are grayscale(one dimension) mixed with three dimensional
        # images.
```

4

•