

Efficient use of "Diagnostic Imaging Tutor" to master Diagnostic imaging

Chest Radiography

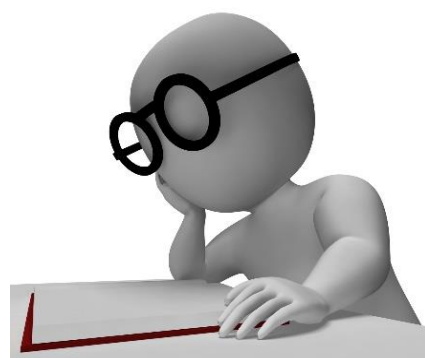


Do you think

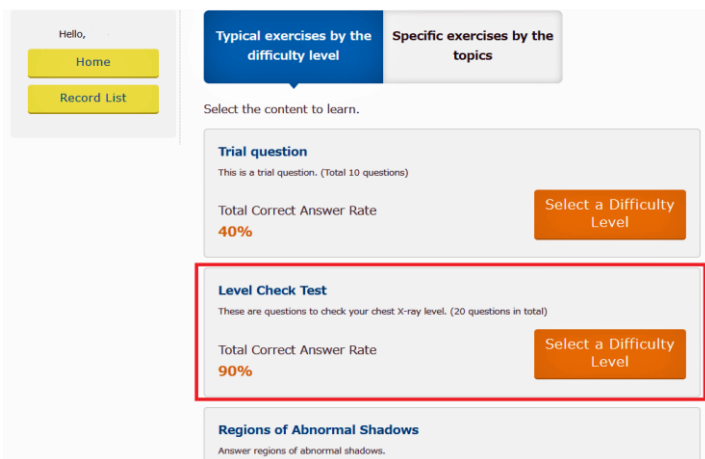
Diagnostic Imaging Navigator "Doc.navi" is about navigating diagnosis,
Diagnostic Imaging Simulator "simu.Doc" is about learning diagnostic imaging?

That is not correct ! !

Now we will show you how to use the diagnostic imaging navigator "Doc.navi" as a textbook and/or reference book, and the diagnostic imaging simulator "simu.Doc" as a question book and/or drill so that you can learn diagnostic imaging tutor efficiently.



1. First, let's take the "Level Check Test" using simu.Doc Basics(see below) to check your level of understanding.



If your correct answer rate is less than 30%, then
Please start from **simu.Doc Basic**, Difficulty Level :★.

If your correct answer rate is 31% to 95%, then
Please start from **simu.Doc Basic**, Difficulty Level :★★.

Please repeat to select the "Regions of Abnormal Shadows,"
"Abnormal Findings," and "Diagnosis," a total of 330 questions,
until you correctly answer all questions on the completion test.

If your correct answer rate is 100%, then
Please proceed to **simu.Doc Practice**.

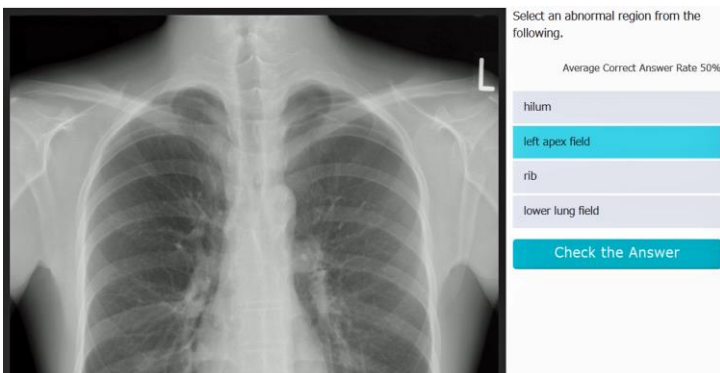
2. You will answer questions according to your level of understanding, we will explain how to learn efficiently using Doc navi.

Did you notice the avascular area at the left apex field on the level check test of **simu.Doc Basic**? (the lower left)

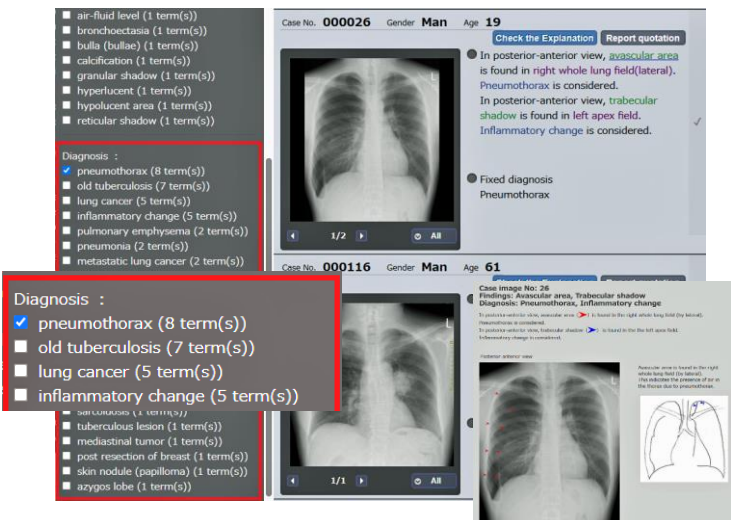
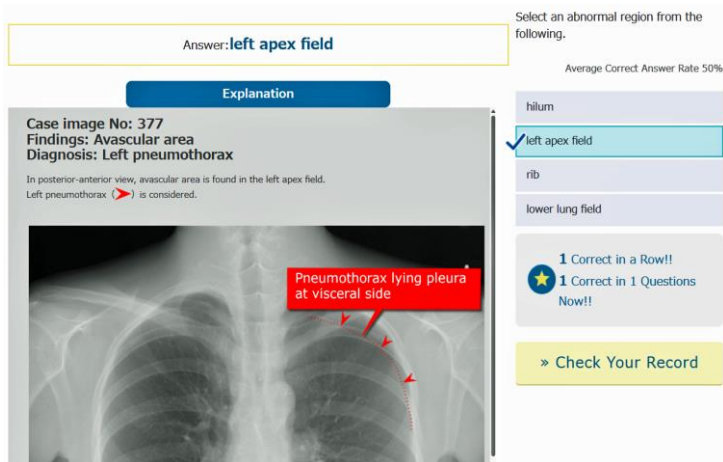
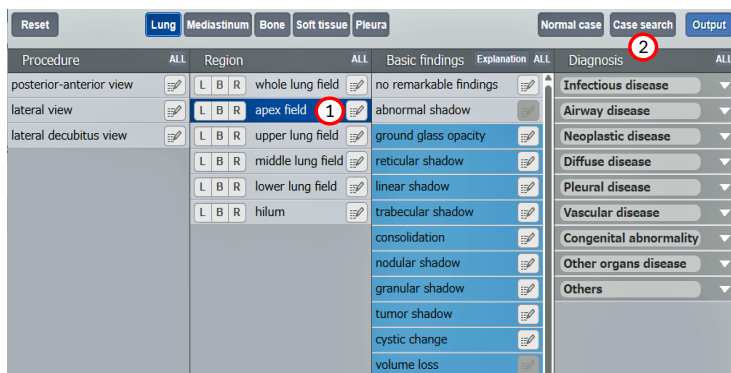
For example, if you want to understand diseases that frequently occur in the apex field, launch **Doc.navi** simultaneously,
select ① apex field on the navigation screen and ② Case search (the lower right).

The red frame shows that "pneumothorax" frequently occurs at the apex field. Let's look at various case images of pneumothorax.

simu.Doc Basic



Doc.navi



Case Explanation

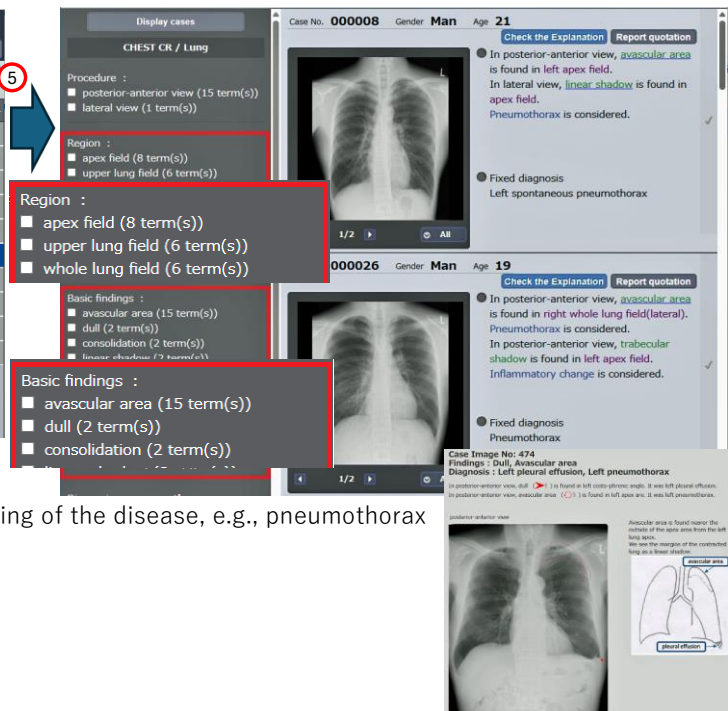
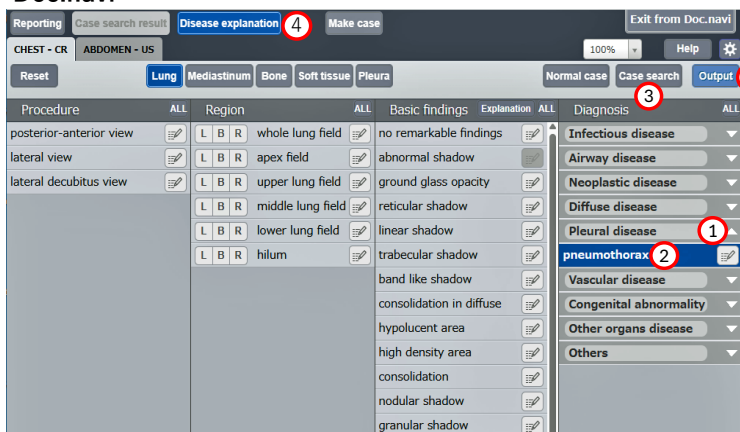
Chest X-ray images are categorized in area as "lung," "mediastinum," "bone," "soft tissue," and "pleura."
Please learn the typical case images of each of the diseases.

3. You can also use Doc.navi to understand the typical images for each of the diseases.

Click ①▽ ②Pneumothorax ③Case search to refer to case images (see figure below).

If you look within the red frame, you will see that the characteristic region of pneumothorax is the "apex field" and characteristic findings is the "avascular area" Then, you can proceed to the case images of various "avascular area" to further understand this findings.

Doc.navi



You can also refer to the "④Disease Explanation" for understanding of the disease, e.g., pneumothorax (Click ⑤Output after ④.)

Symptom explanation sheet : pneumothorax

■Diagnosis result
Pneumothorax is suspected.

■Sickness explanation

The lung is placed in the thoracic cavity. "Pneumothorax" is the disease in which the air leaked from the lung due to the lung injury accumulates in the thoracic cavity, and the air presses the lung, making it impossible to draw.

There are many causes of "pneumothorax". The "traumatic pneumothorax" occurs when a broken rib bone sticks the lung or the chest is strongly pressed in the accident. The pneumothorax by other causes (ex. other diseases or aging) is called the spontaneous pneumothorax.

A lot of cases of the pneumothorax have sudden onsets of symptoms including sharp chest pain, difficulty in breathing and unproductive cough without sputum. However, some patients don't have any symptoms. In severe cases, fatal symptoms including dyspnea and shock (the condition in which blood pressure is extremely low) can occur.

■Treatment policy

Patients with mild pneumothorax have rest and are followed up in outpatient clinic. If the volume of leaked air is large, we perform "thoracocentesis" in which we drain air from the lung by injecting a needle, or cut the chest and put a drain (a tube) and drain air.

4. It is critical of importance to understand the wide range of normal chest x-ray images

so that you are able to identify abnormal findings on chest X-ray images.

Many normal images can be seen in Doc.navi (see figure below).

You can also view Youtube "Diagnostic Imaging Online Course" 「Let's understand normal chest X-ray images」 ,

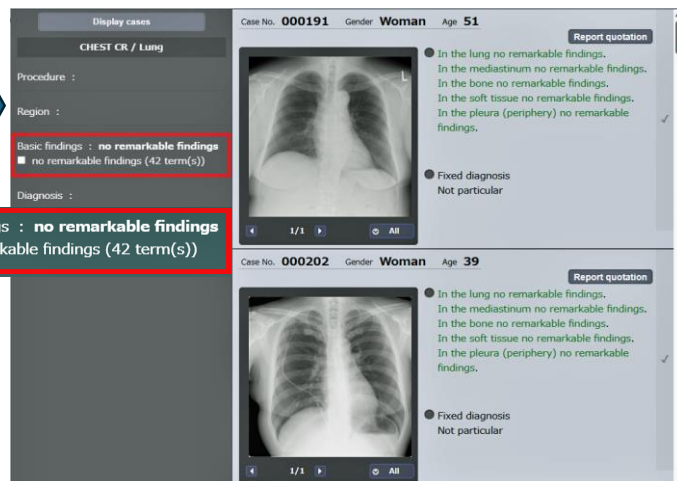
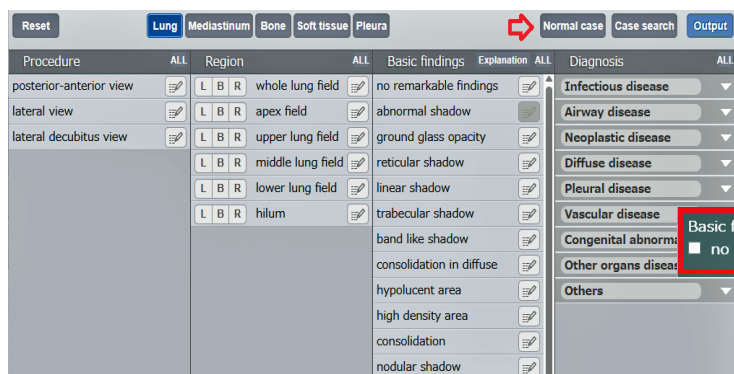
<https://www.youtube.com/watch?v=rB40srxrK3cc>

to understand

- ①Element of chest X-ray images
- ②Division of lung fields
- ③Normal structure and Border



Doc.navi



5. Once you master simu.Doc Basics, you will proceed to the next step to learn the process using simu.Doc Practice.

The number of question	Introduction	180 questions
	Beginner	340 questions
	Intermediate	360 questions
	Advanced	72 questions
Learning Target	Medical Students	Introduction & Beginner
	Medical Doctors	Introduction, Beginner & Intermediate
	Medical Specialists	All

6. Even you have once mastered it, you would forget cases that you do not often deal with, so please check your own understanding with simu.Doc & Doc.navi in a timely manner.

Doc.navi covers 120 diseases, about 500 cases, indicating the relationship between “Basic Region” “Basic Findings” & “Diagnosis”. Always keep Doc.navi on hand, and whenever you feel unsure while practicing image interpretation with simu.Doc, refer to Doc.navi to confirm any questions you may have. (The figure below shows a number of pneumonia cases being identified using Docnavi.)

Doc.navi

Case Explanation

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