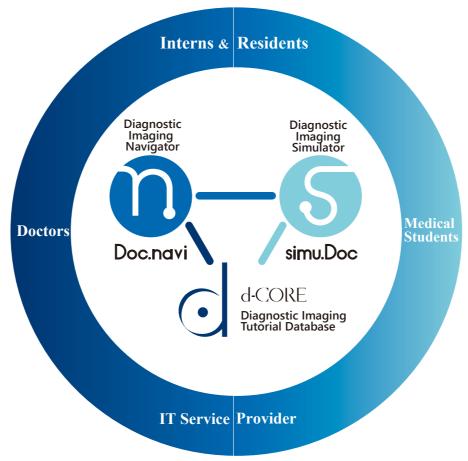




Diagnostic imaging knowledge service built around a tutorial database called d-Core.



Diagnostic Imaging Tutor





Diagnostic **Imaging** Simulator

Imaging Case Database



We also provide a training application to acquire the interpretative process using case images that give maximum learning performance. This tool called simu.Doc helps everyone from interns and residents to medical specialists learn or relearn accurate diagnosis of medical imagings that requires both specific knowledge and for improving skills

Learning materials for medical students

Teaching materials for medical instructors or physicians who train interns and residents for skill improvement

Diagnostic **Imaging** Navigator



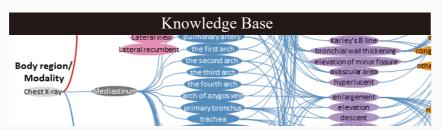
Our d-CORE supports users in procedures, •Supports medical such as identifying diseases, creating medical records and explaining diseases to patients. You'll learn both efficient clinical management and win patient confidence while supported by the latest medical technology based on the knowledge and for supporting experience of specialists.

diagnostic imaging

 Supports needs in community medicine and telemedicine



Information coming in from the diagnosis flow process is provided by linking knowledge bases with imaging case databases.



The knowledge base is constructed based on a huge case data by extracting and grouping elements such as the "region", "basic findings", and "diagnosis" necessary for diagnostic imaging and then linking the respective elements. Thus, an evolution from data to knowledge has been achieved by Semantic Web technology that gives meanings to information.

An example of the diagnostic flow using d-CORE





About 250 cases for Abdominal Ultrasonography

The imaging case database is constructed by extracting highly useful cases and adding information such as patient's gender, age, definitive diagnosis and reports given through correlation with the knowledge base to anonymized case images. This greatly expands usage for a wide range of applications.

Number of cases as of October 2024.

A wide range of knowledge and experience essential for diagnostic imaging are available.





(Under Development)

Diagnostic Imaging Navigator

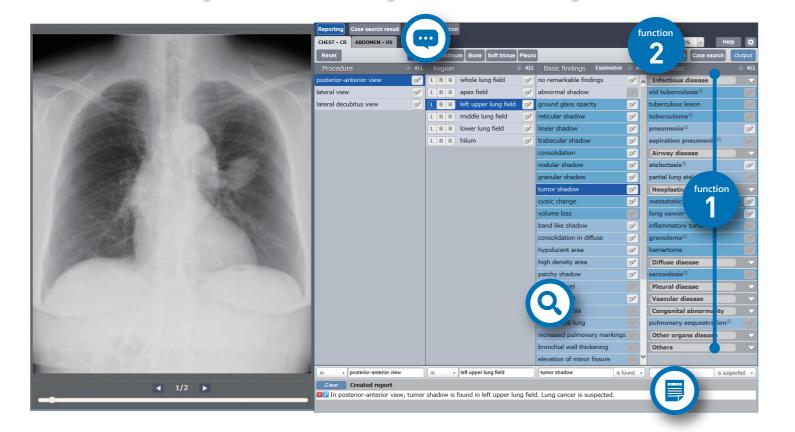


Doc.navi supports users who need to improve their skills for diagnosing highly specialized modern medical imaging. You will also discover both more efficient clinical management and win patient satisfaction through our Doc.navi support.

More accurate diagnosis by listing possible diseases

Easy to take follow-up actions by presenting the possible diseases

More efficient diagnosis by retrieving and showing suspected cases instantly





Diagnostic imaging navigation

Doc.navi guides users to select a very likely or high-probability diagnosis step by step from "procedure", " region", and "basic finding".



Function 2

Imaging cases search

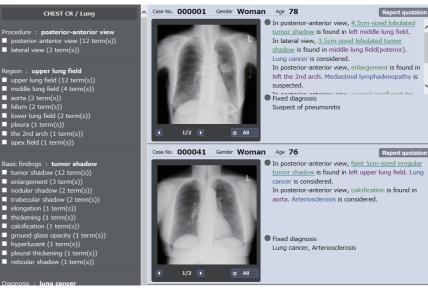
Selected and useful case images have information on "patient attribute", "definitive diagnosis", "medical record" and "specialist's explanation." A search of imaging cases can be instantly made from "basic finding", "diagnosis", etc. to compare with your patient's image. This helps you make a smooth and efficient diagnose.

Case explanation

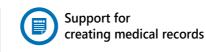
Each case imaging contains specific explanations with comments by specialists about how they figured it out.







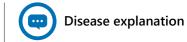




Medical records are automatically and immediately prepared by selecting "region", "basic finding" and "diagnosis". This function shortens the time and trouble needed in creating your diagnosis and medical records.



Makes diagnosis easy by reviewing medical imaging for definite signs that identify a disease or problem.



Simple explanations for "diagnostic results", "explanation about disease", "treatment plan", "precautions", etc. are displayed that can be printed out for patients.



Eirou Sakai, M.D., Ph.D.

Chief of Radiation Department and Director (Palliative Medicine) Vice Director, Hyogo Prefectural Kakogawa Medical Center

Medical imaging with poor image detail and wrong interpretations in medical image reading can prove harmful to patients. The quality of diagnoses given by interns and residents and supportive reading by radiological technologists depends on the individual. I do believe that Doc.navi will support users by improving their overall capacity to read and interpret medical imaging.





- This is a real professional tool for accurate diagnosis that supports making prompt decisions for patients
- When interpreting a medical image is difficult, the sample cases displayed here guide us in making a correct diagnosis
- Easy and supportive when explaining diagnostic results to patients since it shows them case images
- Make preparing the medical records simple and quick
- Makes it easy to understand the concepts and procedures of diagnostic imaging
- A great help in post-graduate training for recalling clinical findings learned while an intern or resident

Diagnostic Imaging Simulator



Build up your skill in pinpointing abnormalities and interpreting symptoms from medical imaging by simulating the diagnostic know-how of medical specialists and supervisors.

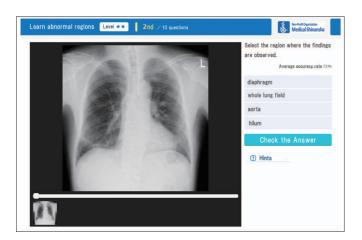
Educate yourself online -anytime and anywhere!

The most effective cases selected from leading university hospitals in Japan

Build up your skill in pointing out abnormalities and interpreting symptoms from medical imaging



Advice for "Basic" You can repeatedly drill yourself on the basics through practice questions. A self-assessment function gives your performance levels.



Cases: [Lung] interstitial pneumonia Select the problem you want to solve :corrected :hoorrected

Typical exercises by the difficulty level

- 1 Select any difficulty level of the contents to learn.
- 2 Select an answer from 4 or 5 choices. Hints may help you.
- 3 Check answers and explanations with "Check the Answer"
- Check your record and rank after answering all questions.
- 5 You can try the exercise again by just clicking "Again."

Check your performance and

the correct answers right

after finishing all questions.

Specific exercises by the topics

- Select "Findings" and "Cases" to learn.
- 2 Select an answer from 4 or 5 choices. Hints may help you.
- 3 Check answers and explanations with "Check the Answer."
- Answer all questions then check your record and performance.

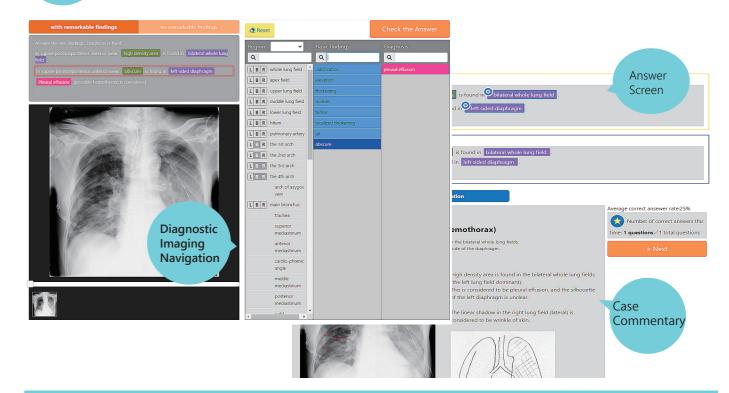
Check your level and achievement from your own record list.

You can repeatedly learn on specific cases.





Clinical diagnostic imaging is shown on the screen. Simulating diagnostic experiences improves your image interpretative skill.



Exercise flow

- 1 Set the scope of questions, difficulty level, and other items on the initial screen.
- 2 Check cese images and select terms from the Diagnostic Imaging Navigation.
- Compare your answers with correct answers and explanations.
- Answer all questions and then check "Record" to review your performance.

Advice for "Practical" Set a degree of difficulty that matches your own level By narrowing down answers using
Diagnostic Imaging Navigation
you can acquire the necessary thinking
for diagnostic process

After checking your answer, deepen your understanding by viewing the case commentary



Naoki Mihara, M.D.,Ph.D. Diagnostic Radiologist & Director Former Director of Medical Information Department, Hiroshima University Hospital

Master the knack of picking out abnormal signs in medical imaging on sight!

The role of medical imaging is becoming increasingly important in modern medicine. It is essential to acquire image interpretation skills to change them into meaningful information. Medical imaging contains much information, so I would like all medical professionals to learn how to interpret images by applying systematic learning methods.

To achieve this, by looking at many cases, you can understand what normal images look like and then check for abnormal images. We hope that "simu.Doc" will be a valuable tool for acquiring skills in accurate image interpretation.

Terms of service and license agreement

Diagnostic Imaging Navigator & Diagnostic Imaging Simulator

Both Doc.navi and simu.Doc. online services are available on an annual or semiannual contract basis. We assume that typical users will include medical doctors, interns and residents working in hospitals and clinics to become medical specialists as well as students in medical schools or technical colleges. You can access our website "https://www.medicalshinansha.or.jp/en/inquiry/".

Diagnostic Imaging Tutorial Database "d-CORE"

Non-exclusive user license for d-CORE is available to interested groups and/or businesses, especially for those producing and developing content and applications for madical services in the IT area involving the health and medical sectors. If you want our license agreement, please contact us via our website "https://www.medicalshinansha.or.jp/en/inquiry/".

Diagnostic Imaging Tutorial Database "d-CORE" editorial supervisors—

Chest Radiography



Naoki Mihara, M.D., Ph.D.

Former Director of Medical Information Department, Hiroshima University Hospital

Japan Radiological Society, Supervisor

• Abdominal Ultrasonography We will develop this in partnership with you. We appreciate your cooperation.



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Disclaimer: This "Diagnostic Imaging Tutor" is not meant to replace one's clinical expertise but rather it serves as an adjunct to enhance the knowledge and skills of medical students or professionals quality diagnosis.



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