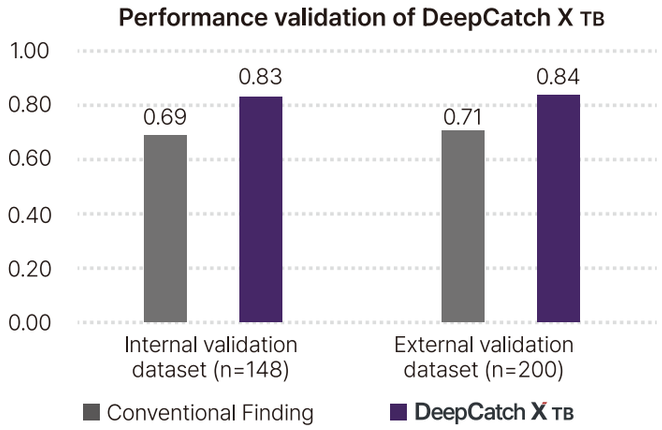
DeepCatch X TB

DeepCatch X TB can detect and monitor **ACTIVE TUBERCULOSIS.**





Lee, S., Yim, J. J., Kwak, N., Lee, Y. J., Lee, J. K., Lee, J. Y., ... & Yoon, S. H. (2021). Deep learning to determine the activity of pulmonary tuberculosis on chest radiographs. Radiology, 301(2), 435-442.

DeepCatch X Pulmo

Maximize diagnostic accuracy of emphysema

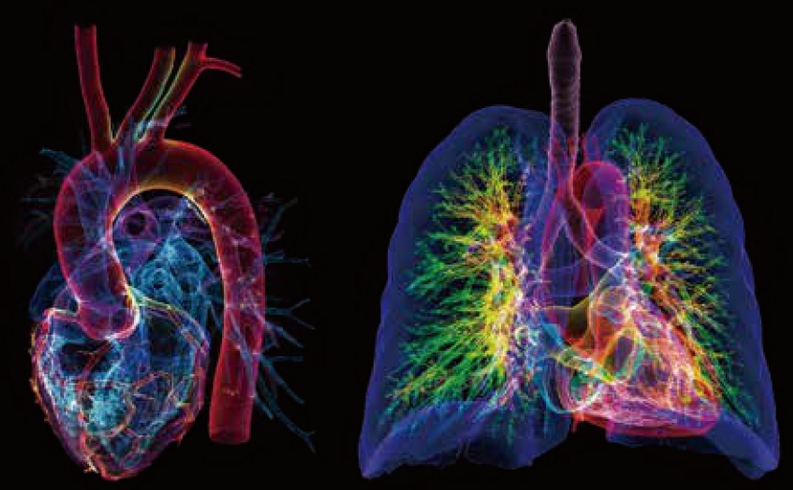
Screening for emphysema with an X-ray is the simplest method, but it lacks accuracy. Our advanced solution maximizes diagnostic accuracy and has been confirmed in both internal and external test sets, achieving outstanding AUC values of 0.90 and 0.87, respectively.



Digital Health Awards 2024
Best in class Quarterfinalist Health Equity
Saving Lives Every Second

Contact Us

W medicalip.com
E sales@medicalip.com
US +1 408.709.4470
KR +82.2.2135.9148



DeepCatch X

Aorta, Torso, Heart, TB, Pulmo

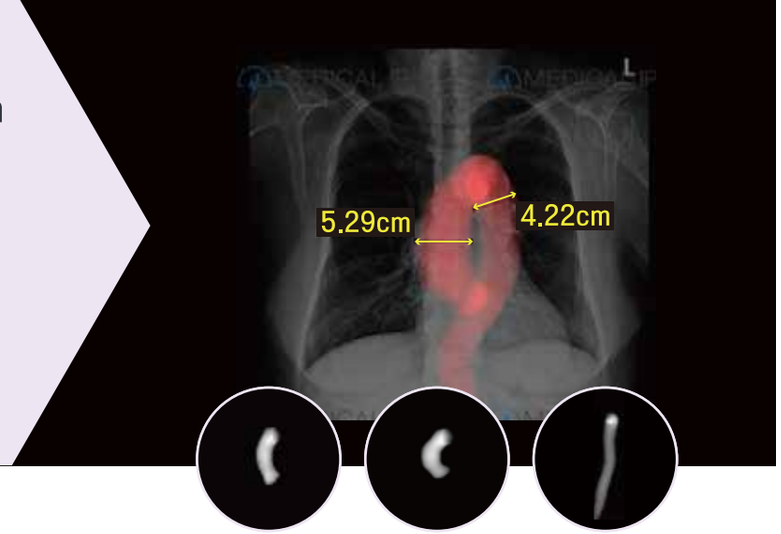
"Aorta, Torso, Heart K-FDA (MFDS) approved"

MEDICAL IP

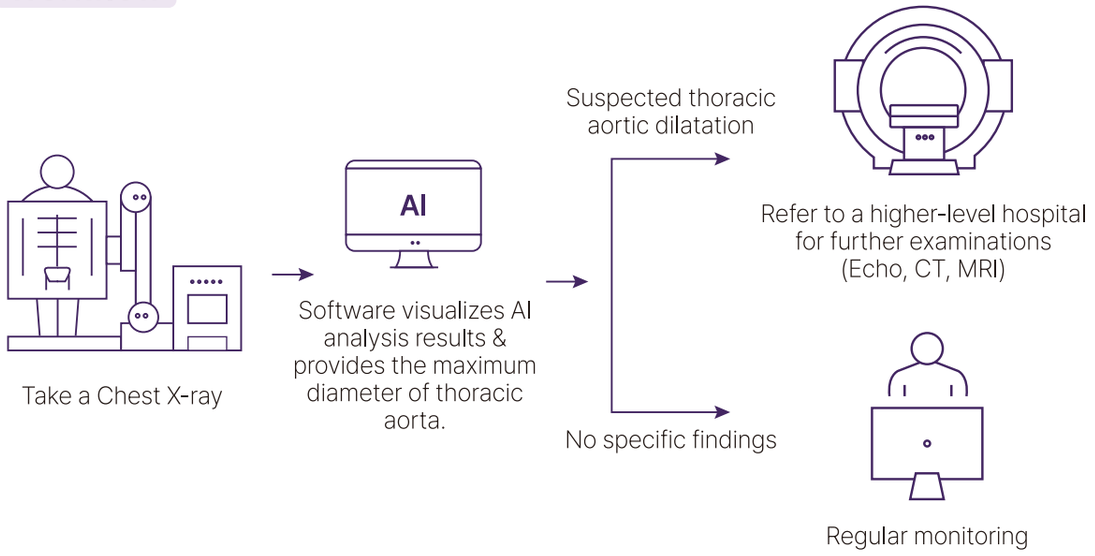
DeepCatch X Aorta

Detection of the maximum diameter of the thoracic aorta using a single chest X-ray.

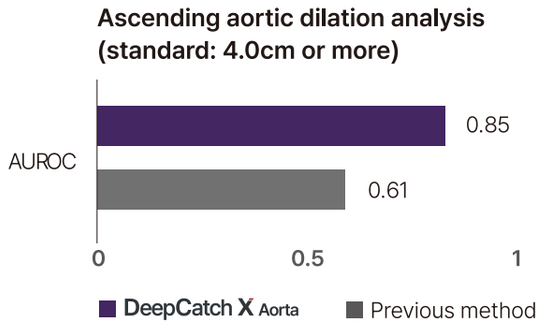
- Cardiovascular image analysis software
  - Ascending aorta
  - Descending aorta



Workflow



Beyond the Limits of X-ray with AI



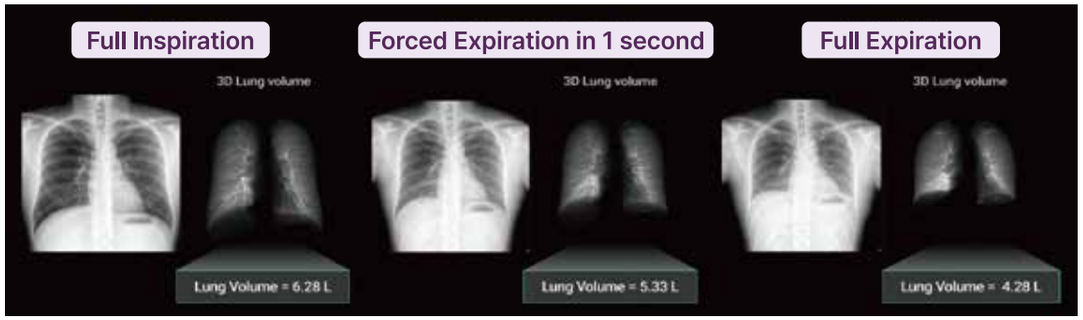
Descending aorta SSIM 0.97 MAPE 6.7%

On X-rays, several organ structures overlap, causing the aorta to appear obscured. **DeepCatch X Aorta overcomes the limitations of the two-dimensional X-ray images,** by combining artificial intelligence and computer engineering technology.

DeepCatch X Torso

Lung Volumetry

Instead of conventional methods such as plethysmography, **DeepCatch X Torso** can quantify 3D lung volume with only a single chest X-ray.



SSIM 0.99, R^2 0.99

Bone Suppression

Removal of part of the ribs and clavicle improves diagnostic utility of the physician by increasing visibility of soft tissue or lesions.

SSIM 0.99



DeepCatch X Heart

By calculating and displaying the heart area, heart volume, and CT ratio, the presence or absence of cardiomegaly can be determined.

MAPE 3.12%

