

Clinic Case Study – Plural Effusion

Courtesy of Dr. Jing Sun, Gu'an Tong Xin Tang Clinics, Gu'an, China

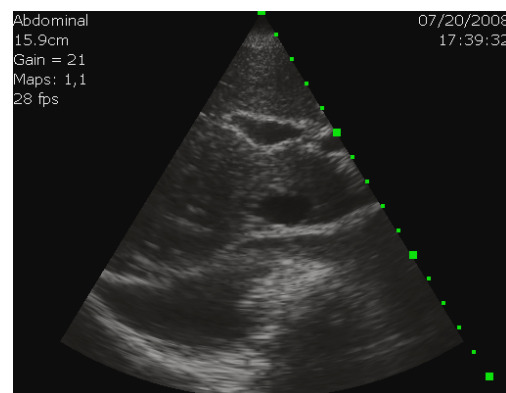
Patient History

The following case study was conducted at the Gu'an TongXin Tang Clinic, Gu'an county, Hebei province.

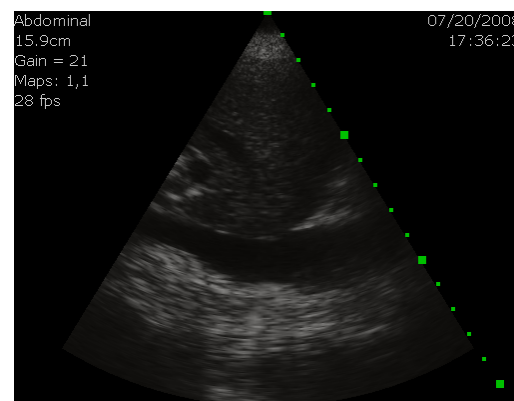
A 77-year-old female was presented at the clinic with a history of coronary heart disease for over 20 years. The patient had frequent palpitation and cough, difficulty in falling asleep, and inertia. The BP of the patient was 170/100 mm Hg and the HR was 108/min. Heart border was enlarged with irregular cardiac arrhythmia.

The ACUSON P10™ ultrasound system was applied on the patient and images were transferred to a remote site, where an experienced ultrasound doctor made clinical suggestions based on patient history and ultrasound images.

Image Findings



The ACUSON P10 system scan demonstrates pleural effusion.



The ACUSON P10 system scan demonstrates enlarged inferior vena cava.

ACUSON P10 ultrasound system

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Clinical Outcome

The ACUSON P10 system indicated pleural effusion and right heart insufficiency. In right-sided heart insufficiency, the right ventricle loses its pumping function, and the blood may back up into other areas of the body, producing congestion. Congestion affects the liver, the gastrointestinal tract, and the limbs. In addition, the right ventricle may be unable to pump blood efficiently to the lungs and to the left ventricle. It is suggested to combine with clinical indications (moist rate of base of lung on both sides) to judge if the patient has heart failure.

Ultrasound Solution

The ACUSON P10 system can be used for ultrasound tele-diagnosis in rural areas. Professional clinical suggestions from remote experts increases the confidence of the diagnosis and also provides a good means of learning and training for the rural doctors, to increase their diagnostic skills.

Standalone clinical images may have been cropped to better visualize pathology.

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