Abstract 35 Figure 1  Echocardiogram 2021: (a) Parasternal short axis; pulmonary artery, PDA shunt in color doppler on first image.

Abstract 35 Figure 2  ECG in 2021 showing atrial fibrillation

Uncorrected PDAs can lead to left atrial and ventricular dilatation with symptoms of congestive cardiac failure such as in our patient above who also subsequently developed atrial fibrillation. It is therefore important that the initial scan in these patients comprehensively assess for ACHD. The views obtained in the initial scan were suboptimal. The subsequent diagnostic scan was performed by an experienced cardiac physiologist with better image quality on the same patient. It is reported that frequently the skill of the sonographer and the completeness of the study determines the accuracy of an echocardiographic diagnosis (1). Some authors have highlighted the importance of scan conditions such as the patient’s size, compliance, associated co-morbidities as well as operator experience. Benavidez et al found that the presence of an experienced cardiac physiologist or imaging cardiologist during certain situations improved diagnostic accuracy, for example in our patient above where despite a normal echocardiographic study, a cardiac cause of symptoms was still a high possibility. (2)

Conclusion Diagnosing ACHD in symptomatic patients requires clinical suspicion and experience for an appropriate initial echocardiogram. ACHD suspicion therefore should prompt a referral to a specialist ACHD team with the appropriate level of experience.

Conflict of Interest none

Objective To summarize the experience of bronchial artery embolization in the treatment of tuberculous massive hemoptysis in the elderly.

Methods Six patients with acute massive hemoptysis aged 67 ~ 92 who failed to stop bleeding with medical drugs had a history of hemoptysis for 3 ~ 6 days and a hemoptysis volume of 500 ~ 600 ml at the onset. Firstly, the bleeding bronchial endings were blocked with gelatin sponge. If the effect was not good, the branches of bronchial artery were blocked with spring coil.

Results The hemoptysis of 6 elderly patients stopped immediately after operation, and there was no recurrence after operation.

Conclusion The use of gelfoam and coil in bronchial artery occlusion is an effective treatment for tuberculous elderly patients with massive hemoptysis, with low recurrence rate and high safety.

Conflict of Interest NO

Acute coronary syndromes & interventional cardiology

DEVELOPING INFORMATICS INFRASTRUCTURE TO CURATE DATASETS USING ELECTRONIC HEALTH RECORD DATA FROM FIVE NHS HOSPITALS FOR TRANSLATIONAL CARDIOVASCULAR RESEARCH

Introduction It has been challenging for researchers to access granular electronic health record (EHR) data at scale. The NIHR Health Informatics Collaborative (HIC) enables the sharing of routine EHR data across NHS hospitals for research. One emerging prospect is to use big data to traverse the translational spectrum. As an early discovery phase study, we estimated the effect of invasive versus non-invasive management on the survival of patients with non-ST elevation myocardial infarction (NSTEMI) aged 80 years or older (SENIOR-NSTEMI Study). As a later implementation phase study, we determined the relationship between the full spectrum of troponin level and mortality in patients in whom troponin testing was performed for clinical purposes (TROP-RISK Study).

Methods Five NHS Trusts contributed data: Imperial, University College London, Oxford, King’s and Guy’s and St Thomas’. We used Microsoft SQL to develop a dataset of 257,948 consecutive patients who had a troponin measured between 2010 and 2017. We extracted phenotypically detailed data, including patient demographics, blood tests, procedural data, and survival status. For the SENIOR-NSTEMI Study,