In this issue of *Heart* Dr. Bhattacharyya and colleagues (see page 370) looked at indications for exercise and dobutamine stress echocardiography in a series of 250 consecutive patients. Their findings support Appropriate Use Criteria (AUC) which help separate patients at high versus low risk of subsequent coronary disease events. Inducible ischemia was seen in 45.5% of those with versus only 12.7% in those without an appropriate indication for stress testing (p<0.0001). The authors suggest that AUC can reduce unnecessary stress testing in lower risk patients.

In an accompanying editorial, Professors Fonseca and Marwick (see page 357) have a different point of view, reminding us that AUC were developed in the USA using a consensus approach, not based on clinical outcomes. While it is encouraging that AUC help identify higher risk patients, there are many clinical settings in which a normal stress test result has value; for example, confirming that a conservative medical therapy approach is reasonable or reassuring an anxious patient. In addition, there is little evidence that AUC have improved medical practice with no change in the relative number of “appropriate” and “inappropriate” stress tests over the last decade. Future clinical trials are needed to resolve the question of whether PFO closure is superior to medical therapy for preventing recurrent cryptogenic stroke. Given the findings from this meta-analysis, these studies should include robust methods for detection of atrial fibrillation, as well as recurrent stroke, to ensure that our therapy for one disease does not create another.

Prenatal screening with ultrasound for major congenital heart disease (mCHD) now is routine at most medical centers. However, in a detailed analysis by Dr. Gardiner and colleagues (see page 375) only 31% of infants with transposition of the great arteries and 37% of infants with aortic coarctation are diagnosed before birth. In addition, prenatal detection rates vary widely depending on whether the hospital has an onsite fetal medicine unit, telemedicine access to a

**Kaplan–Meier survival curves comparing survival in patients whose indication for stress echocardiography was classified as appropriate, uncertain or inappropriate (p=0.01 for appropriate vs inappropriate; p=0.05 for appropriate vs uncertain).**

**Forest plot of risk ratios (RR) for atrial fibrillation. BMT, best medical therapy; RCT, randomised controlled trials.**
perinatal cardiologists or only sonographers supported by local obstetricians.

The authors suggest that creation of a database that links maternal screening with post-natal diagnosis of mCHD would allow hospital-specific interventions to improve prenatal detection rates.

The Education in Heart article by Professor Harvey White and colleagues (see page 424) in this issue focuses on myocardial infarction with a review of the underlying pathophysiology, diagnostic modalities and the universal definition of myocardial infarction. Summary boxes highlight other causes of elevated troponin values, the classification of types of myocardial infarction, and the clinical implications of the Third Universal Definition of Myocardial Infarction. Remember that Education in Heart articles offer CPD/CME credits if you answer the accompanying multiple choice questions.

The Image Challenge by Dr. Muthumala and colleagues (see page 434) reminds us that we need to pay close attention to simple diagnostic tests, such as the chest radiograph and electrocardiogram.

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