

# The Synapse

*As recently as 25 years ago very few patients over 65 were admitted to the intensive care unit in the UK on the grounds of age; but then cardiac surgery was still a fledgeling speciality.*

Perhaps the most far reaching change has been the extended indications for surgery in the face of a low mortality. The knowledge that coronary artery disease is a substrate for myocardial infarction, the single most important cause of premature death, has resulted in the aggressive treatment of this condition in the absence of symptoms. The substantial waiting list for coronary

angiography in spite of an ever increasing output is a clear sign that referring physicians appreciate the implications of IHD. Approximately 25% of patients undergoing angiography are referred for surgery (Department of Cardiac Services, 2005a). Thus cardiac operations have increased from 300 in 1995 to 537 in 2004, with over 80% of work involving coronary revascularisation (Department of Cardiac Services, 2005b). Last year, in my practice alone, 27% of patients were over 70 and there were 9 octogenarians. Cardiac surgery is not alone in providing for the expectations of an ageing population. The older patient presents the surgeon with increased technical challenges and the entire caring team are often faced with a difficult rehabilitation programme. Although overall mortality remains around 1.5% the over 70's suffer greater morbidity, with more than twice the incidence of CVA than their younger cohorts (Manche, 2001). Carotid artery disease may necessitate concomitant endarterectomy, a service we are providing with increasing frequency. This

In an effort to improve long term graft patency we have extended our use of arterial conduits in CABG (Zacharias et al, 2004). Over 98% of patients receive an internal thoracic artery graft, usually to the left anterior descending, and over 25% last year also received a radial artery graft, usually to an obtuse marginal artery.

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Angeliq

de Anne Z. Lattès

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# The changing practice of cardiac surgery

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The technique of performing grafts without the use of cardiopulmonary bypass, OPCAB (off pump coronary artery bypass) remains controversial. We carried out this procedure over a period of 3 years in selected cases, starting in 2000, but have since discontinued it because we could not demonstrate any clinical advantage over the standard technique in our practice. A recent study raised concern over medium term graft patency (Khan et al, 2004).

Another area of change is in the field of

valvular heart disease. Aortic regurgitation is now considered an indication for surgery, especially in the younger patient, before ventricular dilatation sets in. Similarly mitral regurgitation is being treated earlier with the aim of avoiding atrial fibrillation, pulmonary hypertension and heart failure. In this context we are offering repair when the clinical situation and the mitral valve pathology are suitable. Modern techniques of over-reduction of the posterior annulus (Calafiore et al, 2004) as well as specially shaped rings that alter the

dynamics of the posterior left ventricular free wall now play a role in our repairs.

In the sixties thoracic surgeons ventured into the territory of the heart and great vessels. The following decade saw the emergence of coronary revascularisation. Our new challenges are dictated by an ageing population in whom correction of a cardiac problem may make the difference between simply living and enjoying life to the full. As surgeons it is our duty to respond to these demands of our modern society. 