TCT AP Seoul 2013

Surgical AVR Remains the Procedure of Choice for Most AS Patients

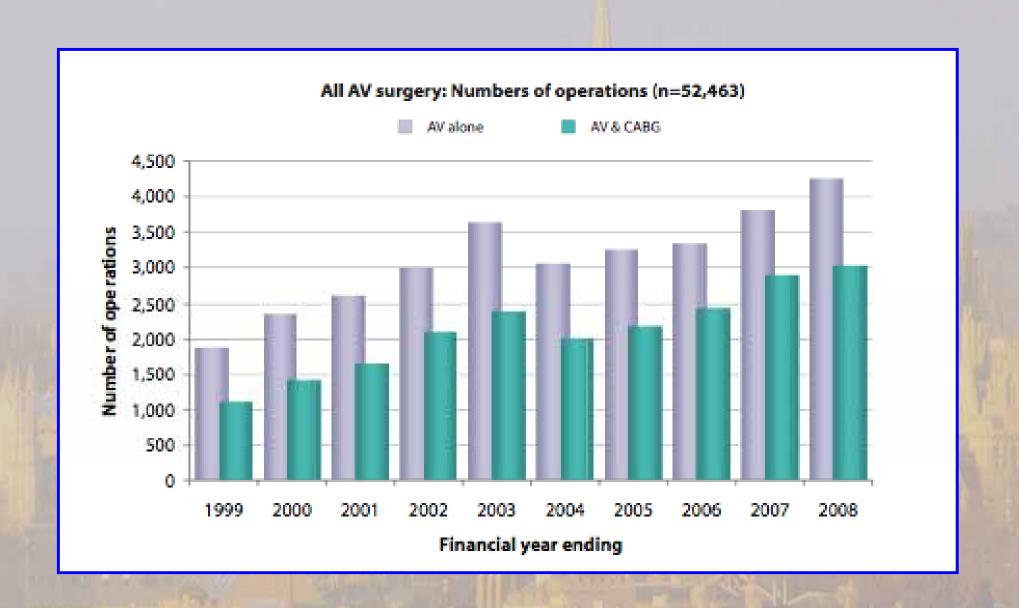
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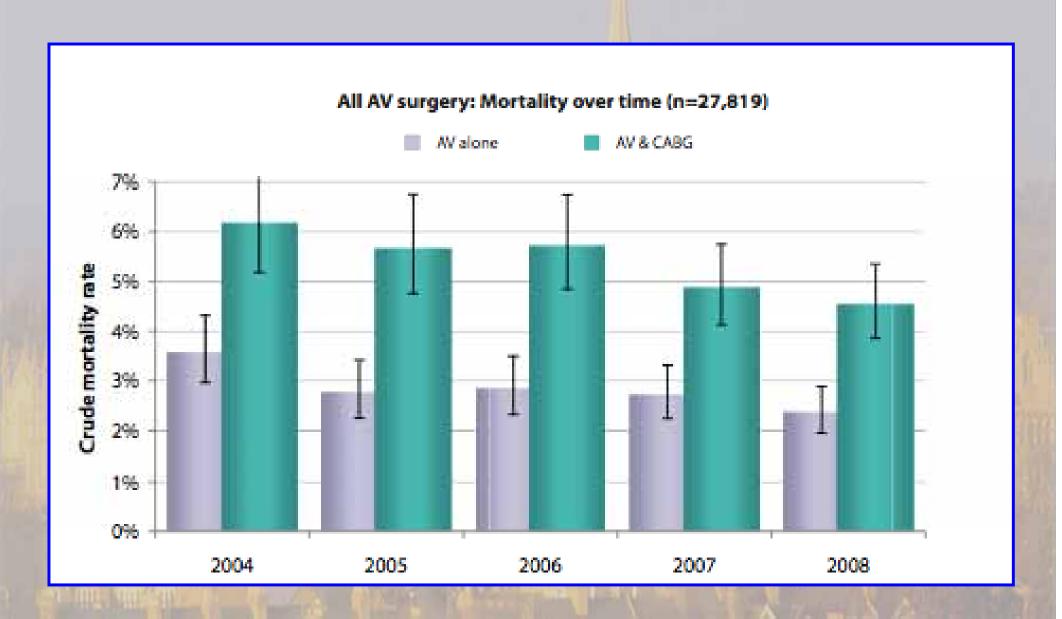
Conflicts of Interest:

- (i) Clinical: Cardiac Surgeon
- (ii) Commercial: Consultant to Medtronic, Abbott, AstraZeneca, Novadaq, VGS,
- (iii) One of 25 ESC/EACTS Guidelines Writers on Myocardial Revascularization
- (iv) Chairman Surgical Committee of EXCEL trial

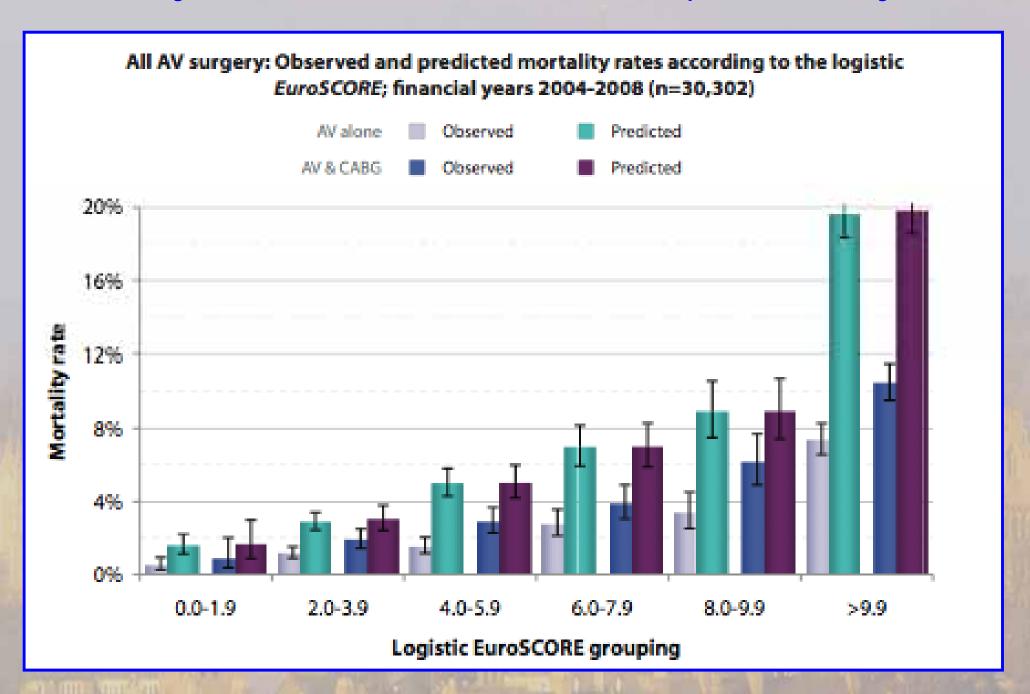
I solated sAVR (+/-CABG) have doubled in UK over last decade



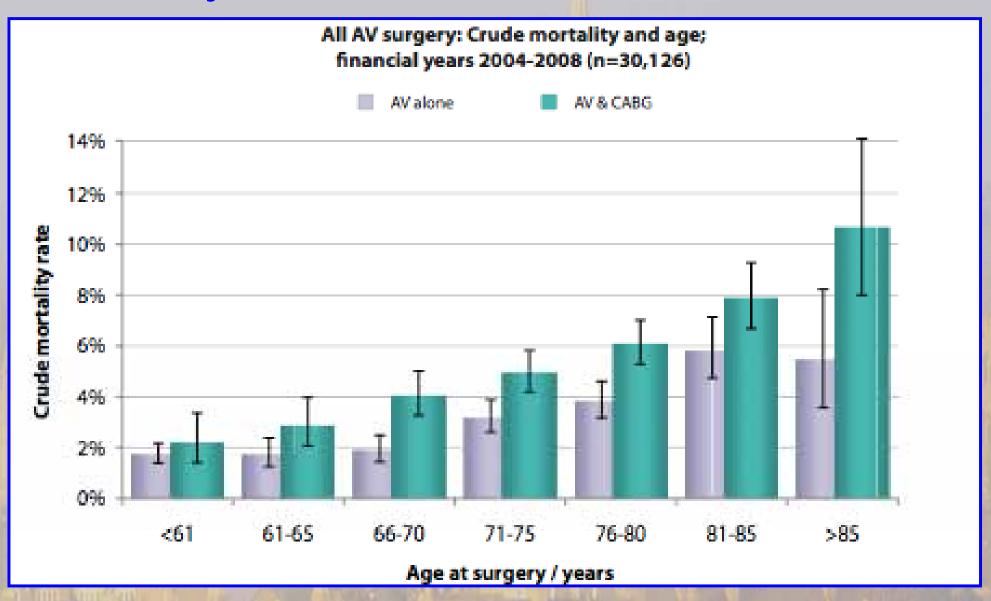
Mortality of isolated sAVR has decreased from 3.5% to 1.8% (2010) of sAVR+CABG has decreased from 6% to 3.6% (2010)



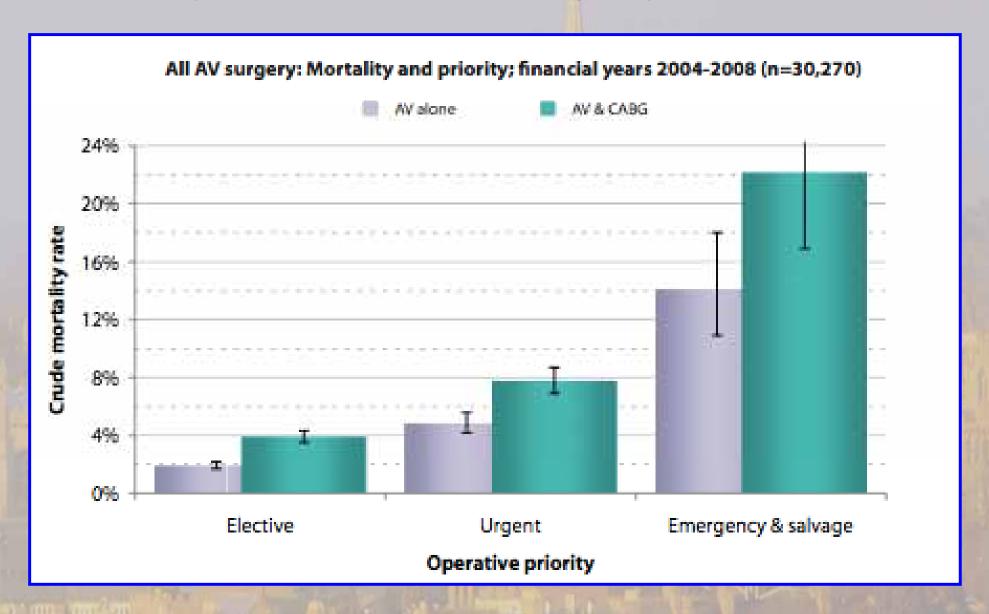
Mortality for sAVR (+/-CABG) <50% of predicted by LE



Mortality and Age oMortality of sAVR (+/-CABG) is strongly age related oMortality increases x 3 from low 60's to > 80's

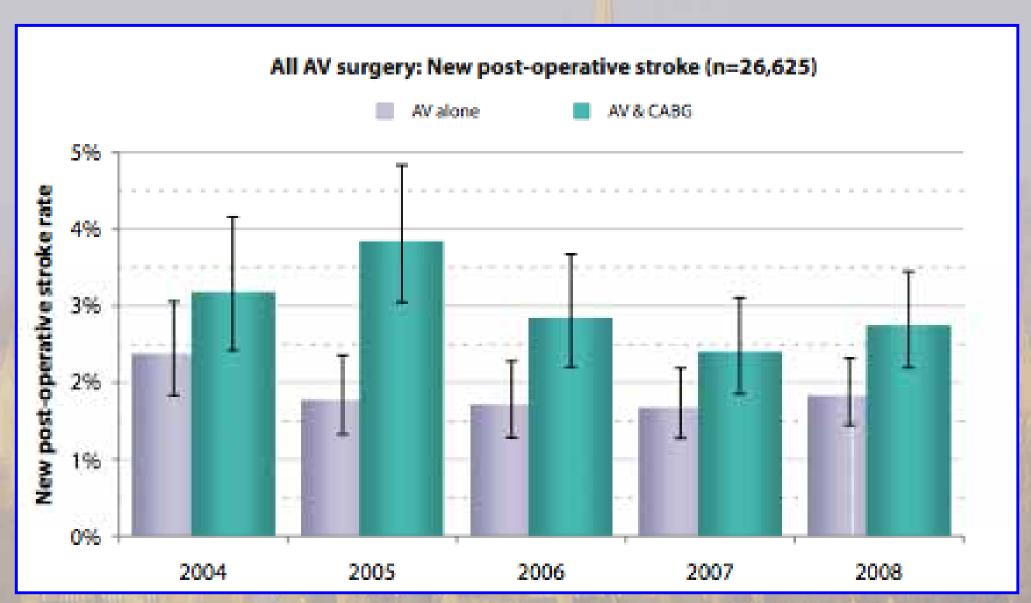


Effect of Urgency of Operation on Mortality oMortality increases x2 if urgent oMortality increases x 6 if emergency

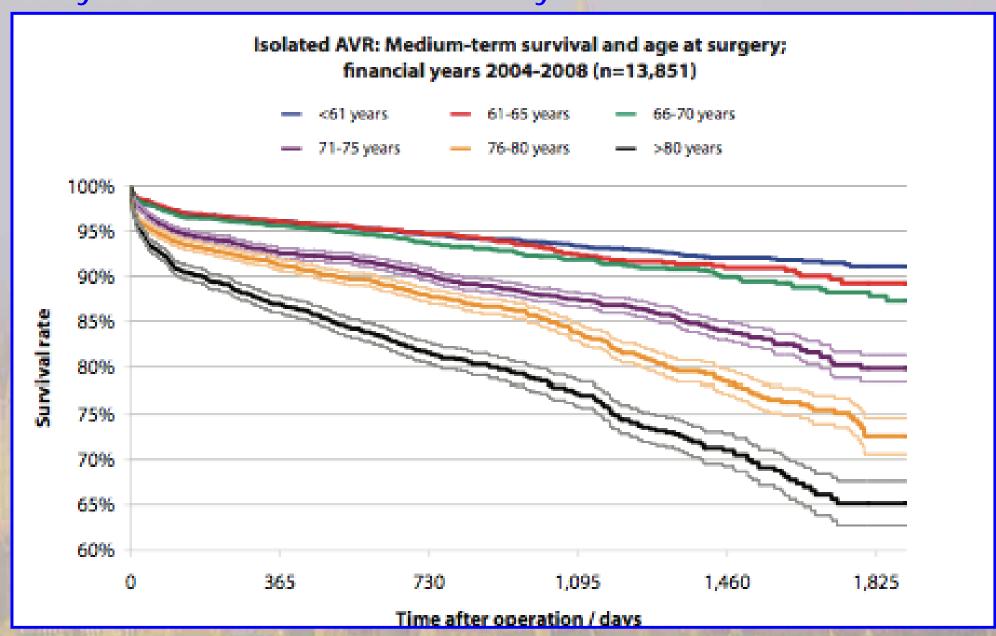


STROKE

- oRisk of stroke for isolated sAVR has decreased from 2.4% to 1.8%
- oHigher risk of stroke with sAVR+CABG at 2.6%
- oPARTNER Trial stroke risk: 2.4% sAVR vs 4.6% TAVR



Medium term survival after sAVR is strongly age related o5 year survival is >90% for 60yo o5 year survival is 65% for >80yo



EXPERT REVIEW

A systematic review on the quality of life benefits after aortic valve replacement in the elderly

Leonard Shan, MBBS, BMedSc,^a Akshat Saxena, MBBS, BMedSc,^b Ross McMahon, MBBS,^b Andrew Wilson, MBBS, PhD,^c and Andrew Newcomb, MBBS^{a,d}

CONCLUSIONS

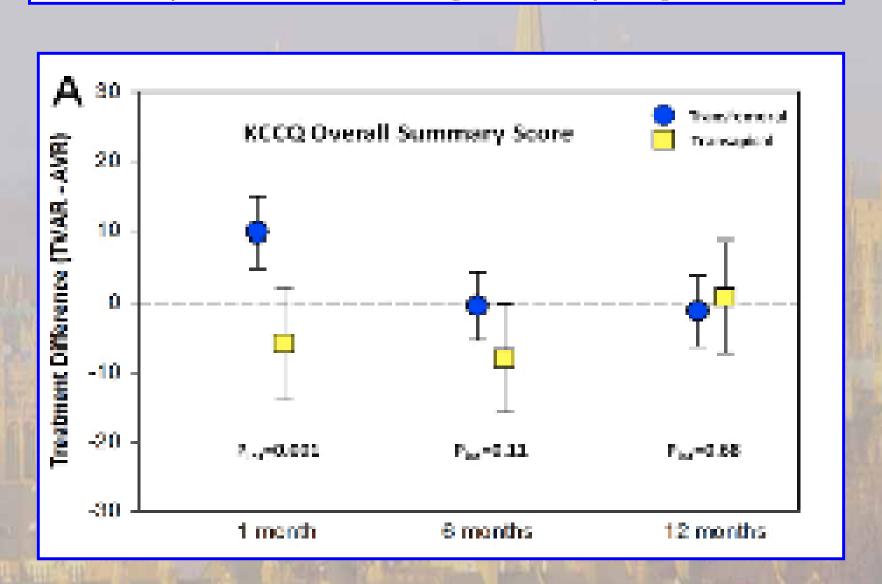
The main findings of this systematic review are that elderly patients have

- (1) improvement in cardiac symptoms after AVR
- (2) equal or better HRQOL compared with an age-matched population
- (3)equivalent or superior HRQOL compared with younger AVR patients
- (4) significant functional gains after surgery

Health-Related Quality of Life After JACC 2012 Transcatheter or Surgical Aortic Valve Replacement in High-Risk Patients With Severe Aortic Stenosis

Results From the PARTNER
(Placement of AoRTic TraNscathetER Valve) Trial (Cohort A)

Matthew R. Reynolds, MD, MSC,* Elizabeth A. Magnuson, SCD,† Kaijun Wang, PHD,†



TAVR in low/intermediate risk patient: questions

	TAVR	Surgical AVR
Immediate Survival	98%	98%
Long-term survival	?	Age dependent
Neurological Injury	?	<2%
Paravalve leak	20% mild/moderate	<2%
Durability	Good for > 3-4 years	>90% at 10 years
Need for pacemaker	5-20%	<5%

Summary and Conclusions

- oConventional surgical AVR (+/-CABG) can be performed with
- ✓ Low mortality
- ✓ Low risk of stroke
- ✓I mprovement in life expectancy
- ✓Improvement in Quality of Life measurements
- oThese findings also apply to elderly especially in terms of
- ✓I mprovement in life expectancy
- ✓Improvement in Quality of Life measurements
- oRisk of surgical AVR strongly influenced by
- √Age of patient
- ✓ Urgency of operation

