Class 1/2 certification - Aortic Root Dilatation

	Aortic Root Dilatation				Cardiology review (note 2) to include: Echocardiography MRI required if Root >= 4.0 cm		
NO	TES:						
1)	May require OML (Class 1) or OSL (Class 2) whilst under investigation.						
2)	By a cardiological specialist. Cases of Marfan's Syndrome shall be individually assessed. There should be no symptoms. Risk factors reviewed including smoking and family history. Measurements should be made at end-diastole of 1) outflow tract diameter 2) sinuses of Valsalva 3) sinotubular junction 4) tubular ascending aorta. The largest measurement should be utilised. CT is an acceptable alternative to MRI but repeated studies increases radiation exposure.					Results acceptable (note 3)	
3)	The cardiology report will be reviewed by the Authority Medical Section (AMS) for class 1 and AME for Class 2. Applicants with Marfan's will need special consideration. It may be necessary to see the investigations in which case the actual tracings/films/ videos will be requested. In borderline cases a secondary review panel of cardiologists will be convened. An OSL may be applied to a Class 2 certificate.						
4)	4) The principal measurement to determine medical certification of pilots with aortic root dilatation is MRI. Indexing root area to Body Surface Area (BSA) standardises for large or small BSA. BSA indexed diameter (BSAID) = measured value x 1.73/ BSA(m ²). The following parameters to be used as a guide:					Certification based on clinical assessment, diameter and rate of	
		Bicuspid Tricuspid		spid	change		
		BSAID	Rate of change	BSAID	Rate of change	C	
	estricted Class 1&2 ss 1 OML/Class 2 Unrestricted	<4.25 cm <4.5 cm	<0.5 cm/yr <1 cm/yr	<4.5 cm <4.75 cm	<0.5 cm/yr <1 cm/yr	(note 4)	
Uni	it	>4.5 cm	>1 cm/yr	>5.0 cm	>1 cm/yr	Follow up (Note 5)	
5)	Follow up - at least annual echo >0.5 cm/yr.	zarulography. MRT	(or CT) is required at least	2 yeariy where BSAI	D >4.25 cm or rate of change		

