JAA Class 1/2 certification - Mitral valve prolapse and regurgitation

Mid-systolic click
or
mitral valve murmur

Flying may need to be restricted

(note 1)

If no cardiac or other symptoms (note 2):

Cardiology review (note 3) to include:
Echocardiography
Other investigations as necessary

Results acceptable to the AMS (note 4)

Certification proportional to echocardiogram and other findings (note 3)

Follow up at AMS discretion (note 5)

NOTES:

1) May require OML (Class 1) or OSL (Class 2) whilst under investigation.

2) Includes any cardiac symptoms, atrial fibrillation or other arrhythmias and any history of embolic events.

3) By a cardiologist acceptable to the Aeromedical Section (AMS). Trans oesophageal echocardiography may be required. Other investigations likely to include exercise and 24 hour ECGs. Certification criteria based on echocardiographic and other findings:

Minor regurgitation or Mitral valve prolapse only	Unrestricted Class 1/2
Requires evidence of no thickened leaflets or flail chordae and left atrial internal diameter less than or equal to 4.0 cm	
Moderate regurgitation	Class 1 OML / Unrestricted Class 2 (possible OSL)
Severe regurgitation	No JAR certification

The following may indicate severe regurgitation:
- LV internal diameter (diastole) > 6.0 cm
- LV internal diameter (systole) > 4.1 cm
- Left atrial internal diameter > 4.5 cm

Doppler indices such as width of jet, backwards extension and whether there is flow reversal in the pulmonary veins may be helpful in assessing severity of regurgitation.

4) The cardiology report will be reviewed by the AMS. It may be necessary to see the investigations in which case the actual tracings/films/videos will be requested. In difficult cases a secondary review panel of cardiologists will be convened.

5) Follow up at the discretion of the AMS - periodic echocardiography will be required.

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