

ECHOCARDIOGRAPHY SERVICES

Dr C

NAME: MR MICHAEL

REFERRING DOCTOR: A/Prof G

FAX NO:

SONOGRAPHER: S P

DOB:

ECHO NO:

HEIGHT: 168 cm

STUDY DATE: 14/12/2020

WEIGHT 58 kg

BSA: 1.6 m²

CLINICAL DIAGNOSIS: SYNCOPE – RUNNING. KNOWN MINOR CAD.

		<u>Estimated Normal Adult Range</u>
1. Aortic Root (sinuses)	4.0	(2.0 – 3.7cm)
2. Septal Thickness	0.8	(0.7 – 1.1cm)
3. Post LV Wall Thickness	0.8	(0.7 – 1.1cm)
4. LV Internal Dimension		
(End Systole)	2.8	(2.5 - 4.1cm)
(End Diastole)	4.4	(3.5 – 5.6cm)
5. RV Internal Dimension		(0.7 – 2.3cm)
6. LA Internal Dimension	3.4	(1.9 – 4.0cm)

STRESS ECHOCARDIOGRAPHY

STRESS ECG

Resting heart rate was 70/min and blood pressure 135/65 mmHg. Resting ECG showed sinus rhythm and borderline voltage criteria for left ventricular hypertrophy. The patient exercised to mid stage VI of the Bruce protocol (16 minutes 30 seconds) limited by breathlessness without chest pain or discomfort. The peak heart rate was 153/min (maximum predicted 153/min) and the peak blood pressure was 170/70 mmHg. There was 0.5-1.0mm of upsloping inferior ST segment depression at peak exercise and early recovery.

STRESS ECHOCARDIOGRAM

The resting study showed normal left and right ventricular chamber sizes and systolic function. Left ventricular ejection fraction was around 65%. No segmental abnormality was detected. In this left ventricular targeted study, only a basic screen of the other structures was performed. The left atrial size was upper normal and the right atrial size was normal. There was no valvular pathology with 2D imaging. There was trivial mitral and tricuspid regurgitation within normal limits. The aortic root was mildly dilated at 4.0cm.

Immediately after exercise, left ventricular chamber size was smaller and contraction was greater in all segments.

CONCLUSION

1. Very good exercise capacity limited by breathlessness without chest pain or discomfort.
2. Negative stress ECG.
3. Resting echocardiogram showing normal left ventricular size and systolic function. Normal wall thickness. Findings of the basic screen of the other structures as described above.
4. Negative stress echocardiogram for myocardial ischaemia.

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