Contribution of peripheral chemoreceptors to ventilation and the effects of their suppression on exercise tolerance in chronic heart failure


Floras JS. Clinical aspects of sympathetic activation and parasympathetic withdrawal in heart failure. J Am Coll Cardiol 1995;22(suppl A):72A-84A.


**IMAGES IN CARDIOLOGY**

Echocardiographic diagnosis of a subvalvar aortic membrane

A 14 year old boy with an aortic systolic murmur complained of progressive shortness of breath on exertion over one year. Transthoracic echocardiography four years earlier had shown an aortic outflow gradient of 26 mm Hg. A repeat echocardiogram showed left ventricular hypertrophy and a gradient of 90 mm Hg across the aortic valve. He underwent cardiac catheterisation and was found to have a gradient of 60 mm Hg below the level of the aortic valve with no gradient at valve level. A repeat echocardiogram identified a subvalvar aortic membrane. He is now awaiting surgery to resect the membrane.

K K RAY
M HALIM
H SINGH
Echocardiographic diagnosis of a subvalvar aortic membrane

K K Ray, M Halim and H Singh

*Heart* 1996 76: 489
doi: 10.1136/hrt.76.6.489

Updated information and services can be found at:
[http://heart.bmj.com/content/76/6/489.citation](http://heart.bmj.com/content/76/6/489.citation)

**Email alerting service**

Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

Notes

To request permissions go to:
[http://group.bmj.com/group/rights-licensing/permissions](http://group.bmj.com/group/rights-licensing/permissions)

To order reprints go to:
[http://journals.bmj.com/cgi/reprintform](http://journals.bmj.com/cgi/reprintform)

To subscribe to BMJ go to:
[http://group.bmj.com/subscribe/](http://group.bmj.com/subscribe/)