



Athlete's Heart

Subjects diagnosed with athlete's heart commonly display signs that would usually indicate a heart condition if they were seen in a non-athlete:

- Bradycardia
- Cardiomegaly
- Cardiac Hypertrophy



LVEDD

- Large group (1309) elite athletes from 38 disciplines
- Women: (mean 48 mm)
- Men: (mean 55mm)
- LVEDD was between 60 and 70 mm in 14%
- Larger LVEDD seenin athletes with higher body mass and in those participating in endurance sports (cycling, canoeing)

























A 22 year old athlete who plays professional basketball (NBA) was evaluated for a second opinion regarding his abnormal ECG.

- In the pre-season had an abnormal EKG
- The team physician does not allow him to continue training
- The player's manager sends him for a second opinion

























Delayed Enhancement

LGE Typically Absent





A 24 year old athlete who plays a professional sport received his annual echocardiogram.

- In the pre-season his physician heard an abnormal murmur
- The team manager does not know whether the team should sign his multi-million contract











Guidelines: Chronic severe AR

- Asymptomatic patients and LV systolic dysfunction (LVEF<50%)
- Reasonable with normal systolic function but with severe LV dilatation (LVESD >50mm)
- Operative intervention to repair the aortic sinuses or replace the ascending aorta is indicated in patients with a bicuspid aortic valve if the diameter of the aortic sinuses or ascending aorta is greater than 5.5 cm

Athletes with VHD

- Moderate VHD are compatible with participation in most sports, with the exception of those with high static and high dynamic components.
- Athletes with severe VHD should be disqualified from participating in competitive sports until they have undergone the appropriate therapeutic procedure.
- Following valve repair or replacement, athletes can return to sports, although they should avoid high static and high dynamic sports.

















Clinical Presentation: ARVD

- Estimated prevalence 1 in 5000
- Patients usually young and health
- Males are affected three times more than females
- Symptoms vary from lightheadedness and palpitations to syncope and sudden death
- Symptoms may be exercise induced and can occur in athletes







