Myocardial diseases

- Hypertrophic cardiomyopathy:
 - high EF
 - it can contract but can't relax
 - Results in diastolic dysfunction.
 - it's a marked hypertrophy to the left ventricle +/- right ventricle, disproportionate hypertrophy of the septum
 - o causes:
 - HTN
 - most common cause
 - Concentric hypertrophy
 - S4 gallop present (since we have a left ventricular hypertrophy)
 - Hypertrophic obstructive cardiomyopathy
 - metel aortic stenosis murmur
 - fare2 ma3 el aortic enno gher location w no change in intensity w irradiation sob ta7et
 - kamen here fina nshouf mitral regurge ma3 hologystolia inurmui
 - HOCM
 - Hypertrophy more dominant at interrentricular septum rather than left ventricle.
 - This hypertrophy will obstruct the blood flow when preload declers so t dilation of peripheral dessels (e.g. during exercise)
 tresents with syncope and cometimes sudden death (due to

ventricular arr () (crias)

- Autosomal@bimhant usually
 - chromosome 14
- S4 Gallop not present & have fewer sign of backward heart failure like pulmonary edema, right heart failure, and hepatomegaly.
- It is the main cause of sudden death in a healthy playing child
- Symptoms:
 - Dyspnea is the most common presentation
 - Angia, palpitations, syncope
- factors that increase obstruction: (decrease the size of the ventricle)
 - Increase contractility:
 - Digoxin (empties more)
 - Beta agonist (goes faster)
 - Tachycardia
 - since ventricle fills during diastole and no more time to fill
 - Decreases preload:
 - valsalva or standing
 - decrease intravascular volume
 - nitrates and vasodilators
 - tachycardia
 - Decreases afterload: