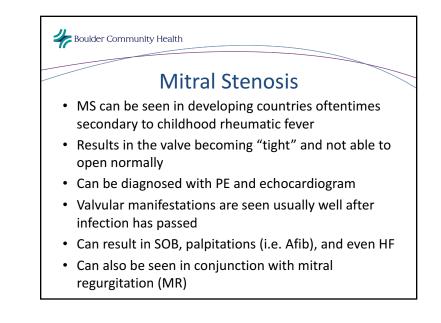


Boulder Community Health

Specific Valvular Disorders

- Mitral and aortic stenosis and regurgitation are four specific valvular disorders which are seen in varying populations
- Oftentimes, these disorders are seen together but can be separate as well
- All these conditions, if left untreated, can result in heart failure and possible death if severe in nature



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Therapy

- Medications to slow HR rate down (betablockers, Ca-channel blockers, digoxin) can be used if AF present
- Diuretics can be used for symptoms of SOB
- Balloon mitral valvuloplasty can be curative in certain cases
- If BMV cannot be performed, surgery is usually the only definitive therapy

Boulder Community Health Mitral Regurgitation Affects thousands of Americans Vastly undertreated Basically means the mitral valve has become "leaky"--blood spills backwards into the lungs rather than going forward into the left ventricle as a results of weak or "degenerated" mitral leaflets

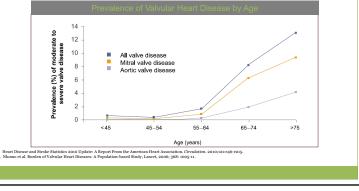
• Results in progressive shortness of breath, fatigue, and eventual heart failure

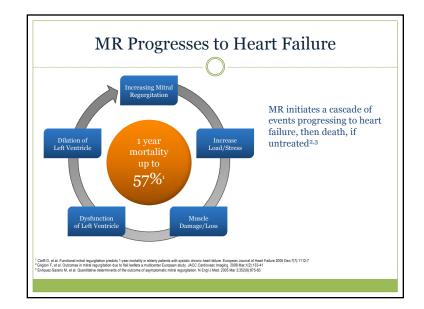
Mitral Regurgitation Etiologies Causes • Degenerative MR (also known as primary or organic MR) is usually due to an anatomic abnormality of the mitral valve itself, including the leaflets, and/or the subvalvular apparatus, such as the chordae or papillary muscles. Functional MR (also known as Normal Mitral Valve Degenerative MR: Prolapse Degenerative MR· Flail Functional MR secondary MR) is the result of left ventricular dilation, which can be secondary to ischemic heart disease. Left ventricular dysfunction leads to annular dilation and incomplete coaptation of the mitral valve resulting in MR.

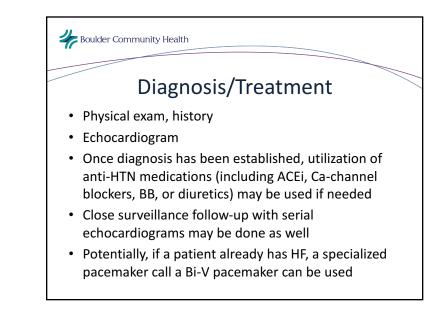
Moderate or Severe Valvular Disease Is Common and Increases With Age

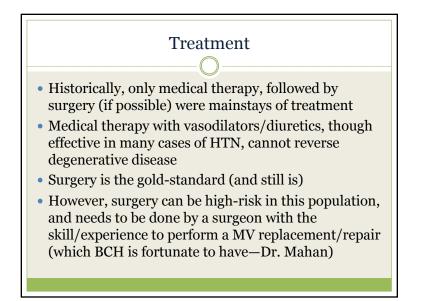
Mitral regurgitation is the most common type of heart valve insufficiency in the $\mathrm{US}^{1,2}$

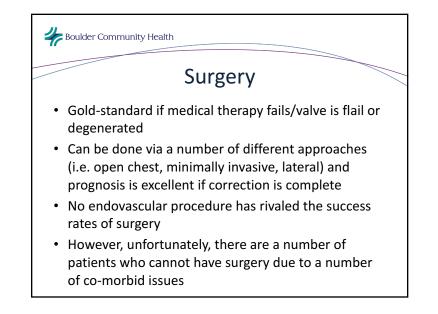
Prevalence increases with increasing age, from 0.5% for 18-44 yr olds rising to 9.3% for ${\ge}75$ year olds (p<.0001)



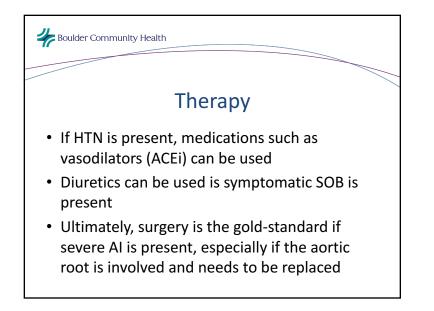


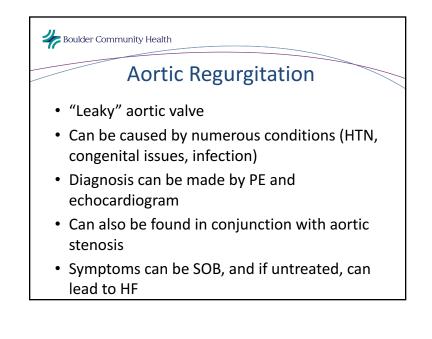


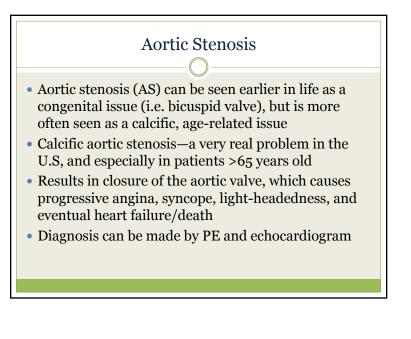


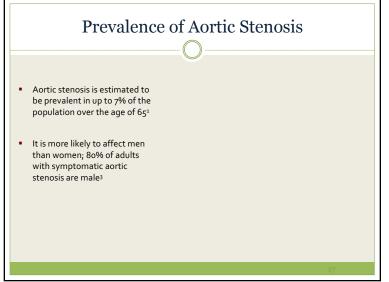




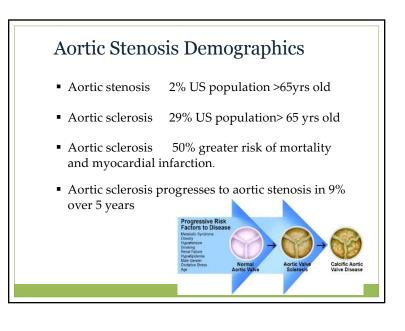


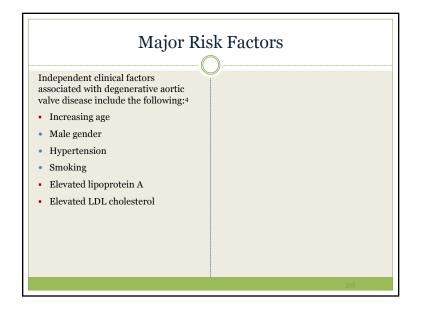


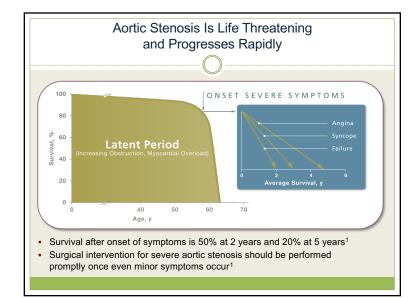


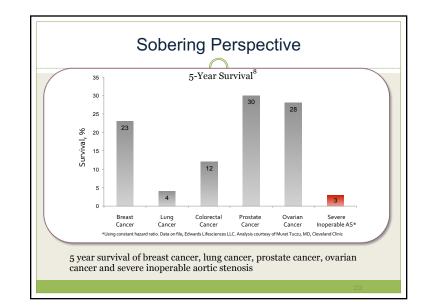


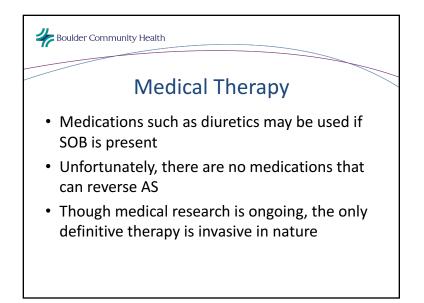


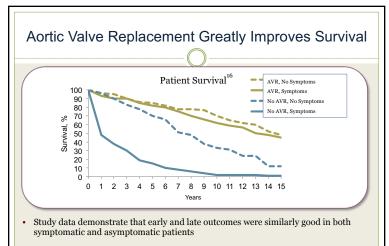












• It is important to note that among asymptomatic patients with SAS, omission of surgical treatment was the most important risk factor for late mortality

