

## **Aortic Valve Disorders**

Aortic Stenosis (AS)

Aortic stenosis is narrowing of the aortic valve. It may be congenital or acquired. If AS is present at birth (congenital), it can be severe, requiring surgical intervention early in life. Acquired AS is usually caused by calcification, sclerosis, and degeneration of the aging valve. It is often associated with atherosclerosis of the arteries, including the coronary arteries. A common congenital heart abnormality is the bicuspid aortic valve (having two valve cusps instead of the normal three). People born with this valve anomaly usually don't have stenosis in youth, but can slowly progress to AS over time. Rheumatic fever

and endocarditis may cause AS, but these are much less common. AS produces a systolic murmur, which is transmitted to the carotid arteries in the neck. The main symptoms are shortness of breath (dyspnea), chest pain (angina), fainting (syncope) upon exertion, and congestive heart failure (CHF). Because only severe disease causes symptoms, individuals who are symptomatic are not insurable. Severe disease requires valve replacement.

In underwriting, AS is classified as minimal (peak gradient ≤15mmHg), mild (valve opening >1.5 cm2 and peak gradient ≤35mmHg), moderate (valve opening 1.0 - 1.5 cm2 and peak gradient ≤50mmHg), or severe (valve opening <1.0 cm2).

Aortic Insufficiency (AI)

**Palpitations** 

Aortic insufficiency is the failure of the aortic valve to close properly, thus allowing the flow of blood backward into the left ventricle. Two common causes of AI are progressive degeneration of the congenitally bicuspid valve and progressive degeneration of the aging valve from calcification and sclerosis. As with AS, endocarditis (infection of the heart valve) and rheumatic fever are less common causes of AI. AI may exist for many years without producing symptoms. Eventually, palpitations, shortness of breath, chest pain, and congestive heart failure develop. It produces a diastolic murmur, which is widely transmitted over the chest. Aortic insufficiency (AI) is also referred to as aortic regurgitation (AR). Most severely regurgitant valves require replacement. Sometimes, repair is possible.

If your client has an Aortic Valve Disorder, please answer the following:

2. Please check	the type(s) of	aortic val	lve disor	der prese
Aortic stenosis _	· · · ·			•
Aortic sclerosis _			_	
Aortic insufficier				

No

Yes

