



## Mid systolic murmur

Read the QR code and iPax AS will open. Tap the screen, and the chestpiece icon on the screen will move to that area and you can hear the sound of that area. Please use earphones to listen to the sound.



## Aortic stenosis : AS

1: Touch your fingertip on A, and the chest piece icon will come up. (PCG of aortic stenosis (AS))

2: In A (aortic area), you can hear a mid-systolic ejection murmur (same as KIKUZO, this is a typical AS murmur, it suggests the third of six grade (III/VI of Levine's classification). An ejection sound may occur from either a congenital bicuspid valve or in association with a narrowing aortic valve (Diagram of bicuspid aortic valve). If you can hear the clear S2 at A, that indicates valve is still mobile. With severe aortic stenosis (AS) with a mobile valve, the S2 may be paradoxically split due to prolonged left ventricular ejection. Advance stage of AS with fibrosis and calcified aging, the S2 at A is absent.

3: Cardiophonetics is "daGAAA-ta"

4: When you touch your fingertip on P, you can hear a slightly decreased volume sound and murmur audible over P. You can find PMI by moving the chest icon. (Diagram shows a pathological findings of AS)

5: If you hear a longer murmur, indicates more severe stenosis.

6: Then, when you move fingertip to T and M, more decreased volume sounds and murmurs are audible.

7: Mechanism producing murmur is a result from atherosclerotic change of aortic valve. Generally, the murmur is easily transmitted during systole, when heart muscle is being stiff, during systole.

Reference; Tsunekazu Takashina Auscultaide guidebook, Publication Telemedica Inc.

