

عنوان مقاله:

Average values for real-time two and three-dimensional echocardiographic parameters of mitral and tricuspid valves in a healthy Iranian population

محل انتشار:

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خلاصه مقاله:

Background: The reliability and validity of echocardiography are critical issues. Day and age, defining normal cases necessitates expressing natural physiological differences, including ethnicity. **OBJECTIVE:** We are persuaded to evaluate average values in mitral and tricuspid valves in the Iranian population because only a few studies have been conducted to obtain average measures in echocardiography. **Methods:** This six-month study was conducted in a tertiary center's echocardiography lab. This study included ۸۷ healthy Iranian volunteers who had no health issues. The tricuspid and mitral valves were examined using three and two-dimensional echocardiography. The investigated indicators produced normal data. The cases were divided into six age groups with a ۱۲-year age gap. **Results:** The participants ranged in age from ۱۸ to ۹۰, with ۳۵ males (۴۰/۲ %) and ۵۲ females (۵۹/۸%). By comparing tricuspid and mitral valve indices, this study found a difference between men and women ($P\text{-value} < ۰.۰۵$). Furthermore, a difference in MV_{3D} , MV_{2CH} , MV_{PLAX} , MV_{3D} , MV_{FCH} , MV_{2CH} , MV_{ALAX} , MV_{2CH} , $MV_{TENTING AREA}$, MV_{AREA} indices at the mitral valve, and SAX_{TVFCH} , TV_{FCH} , TV_{SAX} , TV_{RVIF} indices at the tricuspid valve was observed in various age groups ($P\text{-value} < ۰.۰۵$). **Conclusions:** Our findings confirmed that gender and age impacted echocardiographic parameters, with a trend of decreasing measurements after ۶۵ years of age and the most significant dimensions obtained after ۴۲ years of age.

کلمات کلیدی:

Echocardiography, Mitral Valve, Reference Values, Tricuspid Valves, Healthy subjects

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