

李玉兰,李伟,李春容,杨霞,胡晓文,张桂珍,耿斌.超声测定正常胎儿心脏房室瓣环、腔室径及其与胎龄的相关性[J].中国医学影像技术,2012,28(5):961-965

超声测定正常胎儿心脏房室瓣环、腔室径及其与胎龄的相关性

Ultrasonic evaluation on atrioventricular valve orifice and cardiac chambers and the correlation with gestational ages in normal fetus

投稿时间: 2011-10-29 最后修改时间: 2011-12-27

DOI:

中文关键词: [胎儿心脏](#) [超声心动描记术](#) [房室瓣环](#)

英文关键词: [Fetal heart](#) [Echocardiography](#) [Atrioventricular valve](#)

基金项目:

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中文摘要:

目的 建立不同孕周时超声测定胎儿心脏各腔室径的正常值,探讨心脏测值随孕周变化的规律。方法 将胎龄为16~40周的552胎正常胎儿按照胎龄分为13组,应用高分辨二维超声心动图测量其房室瓣环径、二、三尖瓣距离(M-TD)及心脏各腔室径,计算正常均值,对各测定值与胎龄绘制散点图进行相关和回归分析,选择最优化方程。结果 胎儿期心脏结构各测定值随胎龄增加而增大,与孕周呈显著正相关($P < 0.01$);M-TD与胎龄呈线性相关,二、三尖瓣环径及其他心脏各腔室测值与胎龄之间呈非线性相关,曲线拟合显示二次多项式方程拟合度最优。结论 正常胎儿心脏房室瓣环径、M-TD以及其他房室腔各测值随胎龄而增大,与孕周呈显著正相关。

英文摘要:

Objective To establish normal values for fetal cardiac structures at different stage of gestation, and to evaluate the correlation with gestational ages. **Methods** Totally 552 normal fetus (gestational ages ranged from 16-40 weeks) were divided into 13 groups. The diameter of atrioventricular valve ring, mitral valve-tricuspid valve distance (M-TD) and the other cardiac chambers were measured with 2-Dimensional high-resolution ultrasonography, and the averages values were calculated. A scatter diagram was initially potted of each measured cardiac dimension against gestational age, and a regression and correlation analysis was made between each specific measurement with gestational weeks. The optimal equation was selected according to the regression equation parameters. **Results** In normal fetus, the measurement values of fetal cardiac structures increased as gestational age advanced. Linear regression curve that correlated M-TD with gestational age showed a gradual slop ($P < 0.01$). A quadratic polynomial curve that correlated the other cardiac chambers with gestational age was best fitted. **Conclusion** The atrioventricular valve orifice, M-TD and diameters of the other cardiac structures in normal fetuses increase gradually with pregnancy advancing, remarkably and positively correlate with gestational age.

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