Myocardial contraction and ventricular function in normal subjects evaluated with isotopic ventriculography and phase analysis Contracción cardíaca y función ventricular en sujetos normales evaluada con ventriculografía isotópica y análisis de fase.

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Normal heart contraction was studied in 20 healthy subjects (14 males and 6 female, mean age 33 years). Rest radioventriculography and phase analysis were used. Ejection fraction was 66 + / - 7% for the LV and 53 + / - 7% for the RV (p < 0.0001). Peak filling rates in the first third of diastole were 1.6 + / - 0.6 EDV/sec for the LV and 0.7 + / - 0.3 EDV/sec for RV (p < 0.0001). Time to peak filling rate normalized for heart rate was 180 + / - 52 ms for the LV and 203 + / - 60 ms for the RV (p = 0.05). Filling fractions were 23 + / - 10% and 9 + / - 3%, respectively (p < 0.0001). Segmental motility was normal in all subjects. Phase analysis revealed faster emptying of the left atrium with phase angles of 171 + / - 13 degrees in the LA and 185 + / - 12 degrees in the RA (p = 0.00007). This difference may be related to faster diastolic events in the left ventricle. Phase angles for the LV and RV were -8.75 + / - 3 and -9.44 + / - 5 degrees, respectively (NS). We conclude that activation occurs earlier in the left