The question is raised whether prolongation of right ventricular systole in atrial septal defect is the result of elevation of pulmonary systolic pressure and depression of pulmonary diastolic pressure. Data possibly supporting this view are presented.* The lack of comparable splitting of the second sound in ventricular septal defect may be the result of the absence of a comparable situation with reference to pulmonary systolic and diastolic pressures.

A poor correlation between right ventricular pressure and delay of the pulmonary closure sound in pure pulmonary stenosis was observed, contrary to the findings of Leatham and Weitzman.¹ However, other variables, such as a wide age range and wide spread of heart rates (from 58 to 150 per minute) at the time of right heart catheterization may have clouded the correlation.

REFERENCE


---

*Ed.: Despite demonstrable correlation of the ratio of pulmonary systolic and diastolic pressures with the degree of splitting of the second sound the proximal cause of prolongation of right ventricular systole may be increased in the right ventricular stroke volume.
Correlation of Heart Sounds with Ejection Dynamics of The Right Ventricle
A. CALHOUN WITHAM

Circulation. 1958;18:997
doi: 10.1161/01.CIR.18.5.997

The online version of this article, along with updated information and services, is located on the World Wide Web at:
http://circ.ahajournals.org/content/18/5/997.citation

Permissions: Requests for permissions to reproduce figures, tables, or portions of articles originally published in Circulation can be obtained via RightsLink, a service of the Copyright Clearance Center, not the Editorial Office. Once the online version of the published article for which permission is being requested is located, click Request Permissions in the middle column of the Web page under Services. Further information about this process is available in the Permissions and Rights Question and Answer document.

Reprints: Information about reprints can be found online at:
http://www.lww.com/reprints

Subscriptions: Information about subscribing to Circulation is online at:
http://circ.ahajournals.org/subscriptions/