

without a praecordial vibratory murmur. Also, as already mentioned, blood pressure readings between the two groups did not differ significantly. This means that no difference in windkessel-function of the aorta can be assumed in explaining the presence of a praecordial vibratory murmur, which leaves left ventricular myocardial function as the most probable basic origin.

### References

- Beneken, J. E. W., and de Wit, B. (1967). A physical approach to hemodynamic aspects of the human cardiovascular system. In *Physical Basis of Circulatory Transport: Regulation and Exchange*, p. 7. Ed. by E. B. Reeve and A. C. Guyton. Saunders, Philadelphia.
- Bruns, D. L. (1959). A general theory of the causes of murmurs in the cardiovascular system. *American Journal of Medicine*, **27**, 360.
- de Monchy, C. (1966a). Studies on functional heart murmurs in children. I. The external carotid tracing of children with a precordial vibratory murmur. *Annales Paediatrici*, **206**, 356.
- de Monchy, C. (1966b). Studies on functional heart murmurs in children. II. The origin of the precordial vibratory murmur and the pulmonic systolic murmur in children. *Annales Paediatrici*, **206**, 408.
- Harris, T. N., and Friedman, S. (1952). Phonocardiographic differentiation of vibratory (functional) murmurs from those of valvular insufficiency; further observations and application to the diagnosis of rheumatic heart disease. *American Heart Journal*, **43**, 707.
- McConahay, D. R., Martin, C. M., and Cheitlin, M. D. (1972). Resting and exercise systolic intervals. Correlations with ventricular performance in patients with coronary artery disease. *Circulation*, **45**, 592.
- McKusick, V. A. (1958). *Cardiovascular Sound in Health and Disease*. William and Wilkins, Baltimore.
- Montoye, H. J., Willis, P. W., Howard, G. E., and Keller, J. B. (1970). Systolic pre-ejection period. *Archives of Environmental Health*, **21**, 425.
- Paulin, S., and Mannheimer, E. (1957). The physiological heart murmur in children. *Acta Paediatrica*, **46**, 438.
- Robinson, B. (1963). The carotid pulse. I. Diagnosis of aortic stenosis by external recordings. *British Heart Journal*, **25**, 51.
- Rushmer, R. F. (1955). *Cardiac Diagnosis*. Saunders, Philadelphia.
- Snedecor, G. W. (1967). *Statistical Methods*, 6th ed. Iowa State College Press, Ames, Iowa.
- van der Hoeven, G. M. A., de Monchy, C., and Beneken, J. E. W. (1973). Studies on innocent praecordial vibratory murmurs in children. I: Systolic time intervals and pulse-wave transmission times in normal children. *British Heart Journal*, **35**, 669.
- van der Hoeven, G. M. A. (1970). De analoge rekenmachine, een hulpwerktuig bij de bestudering van de bloedsomloop. *Polytechnisch Tijdschrift, E*, **25**, No. 12, 472.
- Weissler, A. M., Harris, W. S., and Schoenfeld, C. D. (1969). Bedside technics for the evaluation of ventricular function in man. *American Journal of Cardiology*, **23**, 577.
- Wennevold, A. (1967). The origin of the innocent 'vibratory' murmur studied with intracardiac phonocardiography. *Acta Medica Scandinavica*, **181** (1), 1.

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### Errata

'QT interval in right and left bundle-branch block' by S. Talbot, volume 35, p. 288 and 289.

- (i) The last line of the summary should read 'by subtracting 0.02 sec less from the actual QTc'
- (ii) First row, second column of the Table (mean QT in left bundle-branch block) should be 0.422 (SD 0.048).