



5-1-1967

Experimental Studies on Ectopic Atrial Rhythms in Dogs

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Recommended Citation

Moore, E., Jomain, S. L., Stuckey, J. H., Buchanan, J. W., & Hoffman, B. F. (1967). Experimental Studies on Ectopic Atrial Rhythms in Dogs. *American Journal of Cardiology*, 19 (5), 676-685. [http://dx.doi.org/10.1016/0002-9149\(67\)90472-9](http://dx.doi.org/10.1016/0002-9149(67)90472-9)

Appendix 6.13 of James W. Buchanan's dissertation [Chronic Valve Disease and Left Atrial Splitting in the Dog](#).

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EXPERIMENTAL STUDIES ON ECTOPIC ATRIAL
RHYTHMS IN DOGS

by

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J.H. Stuckey, M.D.; J.W. Buchanan, D.V.M.; B.F. Hoffman, M.D.

Summary: In the present experiments, activation of the canine atria from the region of the coronary sinus or A-V node did not result in inversion of the P wave in electrocardiographic leads II, III and AVF unless there was concomitant damage to atrial myocardium. The results obtained suggest that when the P wave is inverted in these leads, one should suspect that intra-atrial or interatrial conduction defects coexist with ectopic or retrograde activation of the atria.

The absence of change in P wave polarity in leads II, III and AVF or significant change in mean electrical axis of the P wave during activation of the atria originating in the coronary sinus or A-V nodal regions is thought to depend on the function of specialized intra-atrial conducting paths. Some problems associated with destruction of the SA node and recording reliable P waves from the dog have been discussed.