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# BALLISTOCARDIOGRAPHY

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# BALLISTOCARDIOGRAPHY

## *A Bibliography*

A compilation of references to papers, reports, monographs, reviews and books, of both domestic and foreign origin, which appeared during the period 1877-1964. The references were compiled by the members of the staff of Federal Aviation Agency and the bibliography is published under the joint auspices of FAA and NASA.



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## INTRODUCTION

The publication of this bibliography on *Ballistocardiography*, NASA SP-7021 (FAA AM 65-15) fulfills a long-standing requirement for a comprehensive and retrospective collection of references on a subject that is of particular interest to medical investigators and cardiovascular physiologists engaged in aerospace studies.

Ballistocardiography is a technique for producing a graphical representation of repetitive motions of the human body arising from the sudden ejection of blood into the great vessels with each heart beat. Standard ballistocardiographic techniques are emphasized in the references included in the bibliography, but attention is also given to several related methods that are used to record these phenomena and to the equipment and instrumentation employed in such investigations.

The format of the citations in NASA SP-7021 (FAA AM 65-15) was chosen to resemble, as closely as possible, the format that is now being used in the *Index Medicus* published by the National Library of Medicine, except that English titles of foreign language articles appear in parentheses instead of in brackets as they do in *Index Medicus*. In each case, an attempt was made to identify the language of the article, or the place of publication of the foreign language journal. Since the citations were gathered over a period of years and occasionally from sources which do not appear in standard indexes, complete information was not always available.

Citations are arranged alphabetically by personal author.

In a large measure, the comprehensiveness of this collection of references is due to information obtained from card files compiled and maintained by Dr. William R. Scarborough of the Georgetown Clinical Research Institute, Office of Aviation Medicine, FAA, supplemented by the private collections of Drs. Isaac Starr, Abraham Noordergraaf, and John L. Nickerson. Selection and preparation of individual references and general editing of the material was done by Dr. Scarborough, who received valuable assistance from Mrs. Claire Tedesco of the Medical Library Branch of the FAA Library. Final compilation and printing were completed under the supervision of NASA.

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