

**RADIUM THERAPY IN
CANCER AT THE MEMORIAL
HOSPITAL, NEW YORK
(FIRST REPORT, 1915-1916)**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649686049

Radium Therapy in Cancer at the Memorial Hospital, New York (First Report, 1915-1916) by
Henry H. Janeway & Benjamin S. Barringer & Gioacchino Failla

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**HENRY H. JANEWAY & BENJAMIN
S. BARRINGER & GIOACCHINO FAILLA**

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RADIUM THERAPY IN CANCER

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NEW YORK

(FIRST REPORT: 1915-1916)

BY
HENRY H. JANEWAY, M.D.

WITH THE DISCUSSION OF TREATMENT OF CANCER OF THE
BLADDER AND PROSTATE

By BENJAMIN S. BARRINGER, M.D.

AND AN INTRODUCTION UPON THE PHYSICS OF RADIUM

By GIOACCHINO FAILLA, E. E., A. M.



NEW YORK
PAUL B. HOEBER

1917

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PREFACE

The somewhat detailed character of the present report has been determined by the urgent need of more accurate descriptions of the methods of applying radium to malignant tumors in different situations. The great majority of available reports indicate the total amount of radium employed, but details regarding concentration of radium to the unit of surface, the exact nature of filtration, the exact periods of repeated applications, and the successive steps of the therapeutic result, are incompletely presented or entirely omitted. Consequently it has been impossible for the reader to duplicate the method or to obtain the necessary information to guide him in his own work. Unfavorable results are experienced in all large radium clinics, but under exactly what circumstances such results may be expected, or how they may be avoided, has seldom been stated. Such information, it is believed, may be obtained from many of the case records of the present report.

It has become more and more apparent that the successful use of radium in cancer, requires careful consideration of each particular type of the disease in each organ as separate problems, in which different methods must be devised and different results expected. Hence the various forms of cancer are separately considered, and the indications, methods, complications, and results are given briefly for each.

In our experience the use of radium emanation has greatly increased the efficiency of radium therapy as compared to the use of the metal itself.

For a satisfactory understanding of these advantages as well as the principles of application and filtration an acquaintance with the physics of radium is indispensable. It has therefore been deemed advisable to include in this report an introduction explaining in detail the physical considerations relative to the therapeutic application of radium.

The author desires to express his indebtedness to Dr. Samuel Brown, to whose efficient services in making and changing the applicators and in following the patients much of the success of this work is due.

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