

**ATLAS FOR  
ELECTRO-DIAGNOSIS  
AND THERAPEUTICS**

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Atlas for electro-diagnosis and therapeutics by F. Miramond de Laroquette

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# ATLAS FOR ELECTRO-DIAGNOSIS AND THERAPEUTICS

BY

F. MIRAMOND DE LAROQUETTE, M.D.

MÉDECIN PRINCIPAL, CHEF DES SERVICES D'ELECTRO-RADIOLOGIE DE L'AFRIQUE DU NORD  
À ALGER; ANCIEN MÉDECIN DIVISIONNAIRE AUX ARMÉES

AUTHORISED TRANSLATION BY

MARY GREGSON CHEETHAM

DAME INFERMIÈRE MILITAIRE; MÉDAILLE DE LA RECONNAISSANCE FRANÇAISE

WITH FOREWORD BY

ROBERT KNOX, M.D.

HON. RADIOGRAPHER KING'S COLLEGE HOSPITAL; DIRECTOR ELECTRICAL AND RADIO-  
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ROYAL FLYING CORPS HOSPITAL



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1920

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*To the memory of Professor THÉODORE GUILLOZ, of Nancy, who died during the war, a victim to science, my friend and instructor in medical electricity, I dedicate this little book, in which he had wished to collaborate.*

*I beg Professor A. NICOLAS also to accept the homage of it in remembrance of the cordial welcome I received in his laboratory at Nancy, 1905-1906, when studying for the certificate in advanced anatomy.*

*I submit it, lastly, to my colleagues in physiotherapy, French and Allied, whose task continues to grow in importance, and who all devote themselves so ardently to-day to the noble duty of human reparation.*

F. MIRAMOND DE LAROQUETTE.



## FOREWORD

THE English reading people owe this volume to Miss Mary Cheetham, who has placed a rendering of the original text at their disposal.

The author has given great care and the fruits of a large experience to the compilation of this book. The practitioner who is engaged in diagnostic and therapeutic work will find within its pages a great deal of valuable information. The text is concise and practical, offering many opportunities for refreshing the memory on important anatomical and histological points which are so essential in dealing with practical details in routine work. It should be of great value to the practitioner who proposes to submit himself for examination in Radiology and Electrology.

The translation into English of a work by a distinguished French author is, we trust, an indication of the closer rapprochement in scientific circles which may be not the least important result of the recent co-operation of the two countries in the field.

It is with profound regret that we learn of the sudden death of Miss Cheetham on the eve of publication of this book. It is difficult to speak too highly of the translation: the language is clear, terse, and concise; the style is easy, and the book reads as if it had been written in English and not merely translated. It is a matter for real regret that such a sympathetic co-worker is lost to the scientific world.

ROBERT KNOX.

38, HARLEY STREET, W.,  
*February, 1920.*

## AUTHOR'S PREFACE TO ENGLISH EDITION

APRÈS s'être dévouée de longs mois dans les formations sanitaires françaises, et y avoir mérité les plus émouvants témoignages de gratitude, Miss Mary Cheetham a voulu au lendemain de la guerre être encore utile aux malades et aux blessés.

C'est dans cette pensée qu'elle a consenti de traduire mon "Atlas d'Electrodiagnostic et de Physiothérapie" qu'elle avait eu entre les mains dans un hôpital de France. Je lui reste fort reconnaissant et je souhaite de tout cœur que l'ouvrage si heureusement traduit par elle et confié aux grands editeurs, Baillière, Tindall et Cox de Londres, rende service aux glorieux blessés des armées et de la marine anglaises.

Le Docteur Knox de Londres, les Professeurs Waterston de St. Andrews, et Bryce de Glasgow ont bien voulu s'intéresser à ce travail: je les prie de trouver ici l'expression de mes sincères remerciements.

J'adresse à ma traductrice, Miss Mary Cheetham, l'hommage d'une respectueuse gratitude.

MIRAMOND DE LAROQUETTE.

ALGER,  
*décembre 20, 1919.*

## INTRODUCTION

THE examination of the electric reactions of the organs of the peripheral motor nerve system is a precise method of diagnosis, of which the utility is greater than ever to-day, and the need more frequent, on account of the many therapeutic and medico-legal problems to which the wounds of war give rise.

Every wound, every serious traumatism, involves, indeed, even without grave injury to the nerve trunks, modifications more or less marked, quantitative or qualitative, of the electric response of the nerves and muscles. The measure of these modifications reveals better, perhaps, than any other procedure the degree of injury or the integrity of organs. It is indicated for the majority of wounds in battle or in civil life, as much for the direction of treatment as for the estimation of impairment.

There are very many doctors even in normal times, and still more at the present moment, who have to practise or to interpret this kind of examination, for which a precise knowledge of the anatomical elements in question is above all necessary. The author and the editor believe they are doing good service to-day\* in placing at their disposal this atlas-manual, in which are presented, in such a way as to be seen at a rapid glance, the normal anatomical data that we ought to have well in our mind in order to conduct an electro-diagnosis, or to draw our conclusions from it. The anatomical plates which constitute the chief feature of the book have been drawn partly after the works of Cruveilhier, Ranvier, Testut, Poirier, Nicolas and Paul Richer, and partly after radiographs taken from the living; and the very brief text has been

\* The greater part of this book was arranged, or designed, in 1913 and 1914; but the circumstances of the war and the fulfilment of more urgent duties have delayed the publication of it until now.