## RECENT ADVANCES IN OPHTHALMIC SCIENCE. THE BOYLSTON PRIZE ESSAY FOR 1865

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Recent advances in ophthalmic science. The Boylston Prize Essay for 1865 by Henry W. Williams

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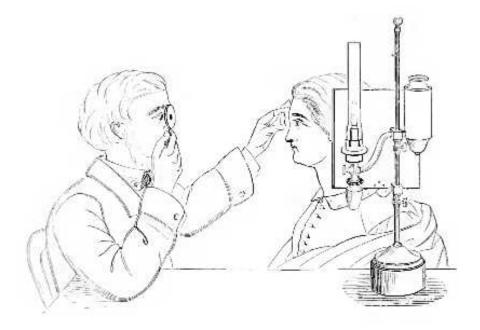
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HENRY W. WILLIAMS

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### RECENT ADVANCES

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### OPHTHALMIC SCIENCE.

#### THE DOVLSTON PRIZE ESSAY FOR 1865.

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#### HENRY W. WILLIAMS, M. D.,

OPETHALMED SUBGEON NO YEX FITY DESPITAL, BOSTON ; ENERGISTIT LECTURES OF OPETHALMED SUBGEON OPETHALMODISTICAL SOCIETY ; OF THE ANEXES OF OPETHALMODISTICAL SOCIETY ; EIC., EIC., ETC., ETC.

"Nimia oculi longitudo facit myopiam." - Boğutuave.



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THE Boylston Medical Committee, appointed by the President and Fellows of Harvard University, consists of the following physicians :--

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At the Annual Meeting, held June 1, 1965, the Premium was awarded to RESET W. WILLIAMS, M. D., for the best Dissertation on Recent Adrances in Ophthalmic Science, bearing the motto : "Ninia cendi longitudo facit myopiam."

By an order adopted in 1826, the Secretary was directed to publish annually the following votes :--

1st. That the Board do not consider themselves as approving the dortrines contained in any of the dissertations to which premiums may be adjudged.

2d. That in case of publication of a successful Dissertation, the author be considered as bound to print the above vote in connection therewith.

J. MASON WARREN, Secretary,

#### · PREFACE.

THIS essay, to which was awarded the Boylston Prize, offered by Harvard University for the best dissertation on "*Recent Advances in Ophthalmic Sci*ence," is not devoid of the faults incident to such a treatise, which, from the nature of the question proposed, embraces a variety of subjects, but ought not to exceed moderate limits.

It is hoped, however, that it may in a measure supply the demand, which becomes every day more urgent, for a work which, without being too elaborate, may assist the student and the general practitioner in acquiring a knowledge of the principles of the Ophthalmoscope and of its practical application, — and which may also elucidate, so far as is possible in a brief *résumé*, other important points in regard to which immense progress has been made within a few years, leading to a more correct understanding of the optical powers and functions of the eye, and of the results of aberrations from the normal standard. PREFACE.

I have endeavored, without introducing the niceties of abstruse mathematical calculations, to give a concise and clear exposition of the many new facts and principles, of which the recent demonstration, by Professors Donders, Graefe, Helmholz, and others, has conferred a fresh lustre upon Ophthalmology, and entitled it to a high place among the departments of medical science.

I am indebted to the accurate scientific knowledge and artistic skill of my friend, Dr. John Green, for drawings of the plates which so greatly enhance the value of the work : and I think it will be admitted that these illustrations. — especially those explaining the Ophthalmoscope, and those which relate to the functions of the eye in refraction and accommodation, — afford to the novice in these studies a more perfect demonstration of the principles involved, and of their application, than can be found in any work which has hitherto appeared.

15 ARLINGTON STREET, BOSTON, 1st January, 1866.

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