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## Tables, Factors, and Formulas for Computing Respiratory Exchange and Biological Transformations of Energy Carnegie Institute of Washington

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By Thorne M. Carpenter

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An excerpt from the INTRODUCTION: THE number of investigators in the total metabolism of matter and transformations of energy in man, animals, and plants is rapidly increasing, as well as the number of individuals (principally clinicians) who are making practical applications of the methods used and the results obtained in these fields. The apparatus used and the methods of calculation applied necessitate frequently the use of tables and conversion factors. The tables most used are those in connection with the measurements of respiratory exchange, the reduction of gas volumes to standard conditions, computation of heat, and the standards of normal metabolism. At present these are published in various places and no adequate compilation of them exists. The purpose of this publication is to make available to investigators the majority of tables and conversion factors needed in calculations of results from measurements obtained by the several types of respiratory exchange apparatus, particularly the Regnault-Reiset and the combination of spirometer, valves, and breathing appliance, and to make available the standards of normal metabolism. The method of presentation is as follows:...

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