THE

A MONTHLY JOURNAL OF BRITISH AND FOREIGN MEDICAL SCIENCE, CRITICISM, AND NEWS.

Canadian Iournal of Medical Science.

U. OGDEN, M.D., EDITOR. R. ZIMMERMAN, M. D., L.R.C.P., London, 171 Church Street Torontc, Corresponding Editor.

SUBSCRIPTION, S3 PER ANNUM.

All communications, remittances and Exchanges must be addressed to the Corresponding Editor, 171 Church St.

TORONTO, OCTOBER, 1880.

Selections : Medicine.

SOME POINTS IN THE PATHOLOGY OF TUBERCLE.

BY J. M. DA COSTA, M.D.

Readat the Meeting of the Pathological Society of Philadelphia, April 22, 1880.

In attempting to put together some thoughts in the pathology of tubercle, it will be necesary, however briefly, to refer to the unsettled tate of the question in the best medical minds the day. Immediately following Laennec, othing could have appeared more firmly fixed han the doctrine he so clearly enunciated. It as impossible to doubt tuberculosis as a specic disease. To have misgivings as to the nafire of consumption and its constant association th tubercular destruction was to appear to turn to barbaric darkness. Not to separate th clearness the different forms of tubercle as to forfeit all claim to be a pathologist. at we all know what has recently happened. he German iconoclast has been at work. Nody likes to speak now of tubercular diathesis, tubercle being a constitutional affection. for the most part, simply the result of a al inflammation; and cheesy matter, infective peess from absorption, irritation in structures ounding in lymphatic tissues, are the comcent phrases of the day, which satisfy most much now as diathesis, constitutional condi-^{1, specific} deposit, satisfied most not many ars since.

And the local view, if such it may be called, be adopted, has brought with it scores of infesting observations on the inoculation of prole; its artificial causation; its production he lung by inhalation of both tubercular

and non-tubercular substances,—observations which are warmly discussed, criticized, adopted, rejected, explained, explained away, and the uncertainties connected with which, quite apart from the other difficulties of the subject, are the cause mainly of the generally disturbed condition of the whole inquiry.

Underlying these observations, or at least closely connected with them, lies the vital question, What relation does tubercle bear to the inflammation? And it is this question particularly that I desire to examine with you a little more fully to-night, and concerning which I shall venture to offer the result of some researches and reflections.

As a necessary introduction, I shall have to examine the evidence on which we pronounce a mass to be tubercular; in other words, what its minute structure as shown by the microscope is. And, to avoid any confusion at the threshold of our inquiry, let me speak of that which we find in undoubted tubercle,—in the little, hard, miliary bodies, which may afterwards become aggregated into larger gray masses. In them we encounter three elements:

Medium-sized, rather shrivelled cells, not very regular in outline, consisting of finely-granular, dense material, with a nucleus small in proportion to the cells, or with several nuclei of similar character. They were once regarded as significant of tubercle, but are now supposed to be swollen epithelial cells which have undergone retrograde metamorphosis. Mixed up with them are cells less dense and like ordinary epithelium, small cells like leucocytes, and a great deal of granular material of doubtful origin.

ercle; its artificial causation; its production Giant cells. These consist of large, manyhe lung by inhalation of both tubercular nucleated cells, which are found at rather an