THE CAUSES OF CANCER

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In, —I have worked for some years at the question of the etiology of cancer, and, with this object in view, far and wide in the broad field of literature I have searched and examined. I published a paper on cancer in the JOURNAL in April 1883. In August of the same year, I suggested, in a letter to the JOURNAL, that cancer should form one of the subjects of inquiry by the Collective Investigation Committee; and I am glad to see that, in the able hands of Mr. Butlin (see JOURNAL, July 11th, p. 5), there is now some likelihood of the matter being thoroughly inquired into.

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In criticising my conclusion that the fecundity of women and the prevalence of high nervous tension should be classed as strong predisposing causes of cancer, Mr. Butlin states that there is absolutely no proof at present that very fruitful women and highly nervous people are "peculiarly" liable to cancer. Now, statistics which I have quoted, collected by Moore, showed that cancer of the uterus was most common in women who had borne fine children, and Scanzoni determined the same fact; and, with regard to the question of nervous persons, it is generally admitted by surgeons that a close connection exists between mental shock and the appearance of mammary cancer. This fact is frequently referred to in the pages of surgical text-books. It does not, therefore, seem extravagant to hold that nervous persons, in one respect at least, are more fiable to cancer than others whose nervous systems possess more stability. Mr. Butlin may, of course, have some reasons for refusing to accept the applicability of these statistics to the case in point, but in my opinion they seem to be conclusive enough; and there is, moreover, the concurrent testimony of Birkett, West, and Velpeau, of the special liability of the breast and uterus to undergo malignant degeneration in married women who have borne children. Mr. Butlin, however, qualifies his criticism by the insertion of the phrase "at present;" and here I am quite in accord with him, inasmuch as the statistics above referred to cannot be described as having the freshness of youth; indeed, according to my reading, there have been no published observations dealing with this matter for many years; and, bearing this fact in mind, I would suggest that the Collective Investigation Committee might, with advantage, institute an inquiry based upon the relative frequency of cancer in the case of married and unmarried females.

Turning, now, to the discussion of the hereditary theor

institute an inquiry based upon the relative frequency of cancer, I think there is no statement which cannot be disposed of showing that cancer is in any respect more hereditary than, for instance, small-pox, scarlet fever, or measles. In both cases, nothing more is transmitted than a predisposition to suffer from the diseases in question. A man is predisposed to scarlet fever by virtue of his humanity; but this predisposition—which, of course, may vary in degree—may or may not become manifest. He may never be exposed to the infection, or, if exposed, may pass scatheless through the risk. A man is not the subject of scarlet fever, in spite of the predisposition to the disease which he may inherit, until the appearance of the usual symptoms by which it is characterised; neither is he the subject of cancer, in any sense whatever, in spite of cancerous progenitors, until some organ or part becomes the seat of a malignant growth. Therefore, it is impossible to speak of cancer as being hereditary in the usual acceptation of this term. Bach man and woman inherits a predisposition to become cancerous after a certain age is reached, and this is largely under the influence of certain causes which, perhaps, it is true to describe as exciting. Similarly, then, as scarlet fever does not arise de novo, and without the presence of the germ of this disease, so the predisposition to cancer, of degrees of which it is quite possible to conceive, will presumably be found not to exhibit any activity except under the influence of one or more causes with which it invariably seems to be so closely allied. Thus it seems rational to conclude that, even in persons whose cancerous disease is said to be hereditary, some amount of care in the avoidance of deleterious habits might have had the effect of maintaining the predisposition to the disease in a condition of really masterly inactivity. For instance, Dr. Stallard states that in San Francisco carcinoma of the stomach is very predominant amongst the male population; and he attributes t Turning, now, to the discussion of the hereditary theory of cancer, I think there is no statement which cannot be disposed of showing that cancer is in

## THE FIRST APPENDIX TO THE "MEDICAL DIGEST.

Sir, -Considering that during the past four years much has been written on

in.—Considering that during the past four years much has been written on medical science, it has been suggested that it would be acceptable to many if the first appendix to the Medical Digest were to be issued at the end of 1885, instead of at the close of 1886, as originally proposed.

I wish upon this point to elicit through your Journal the opinions of those interested in the subject. A post-card addressed to myself, or to the publishers, Messrs. Ledger, Smith, and Co., St. Mary Axe, E.C., expressive of such opinions, and noting, at the same time, any needed corrections in the edition of 1882, will oblige, yours truly,

20 Boundary Road South Hammstead N.W. oblige, yours truly, 60, Boundary Road, South Hampstead, N.W.

PRACTICE IN NEW ZEALAND

THE Edinburgh Medical Missionary Society's quarterly paper publishes the follow-

DEFINITION ACTION THE SIGNARY SOCIETY'S QUARTERLY PAPER PUBLISHES THE FOllowing paragraph.

OPENINGS FOR CHRISTIAN PHYSICIANS IN NEW ZEALAND.—The following extract from a letter, written from Waipukurau, near Napier, New Zealand, will, we hope, be read by some young Christian medical men who are on the outlook for a useful, as well as inviting, sphere in which to practise their profession. We shall be glad to hear from any such. Our friend writes:—

"I wish some steady young doctors would come out to this part of the colony. It would be a great benefit if these doctors had some regard for recipion. At present, we are here in need of a medical missionary or a medical

colony. It would be a great benefit it these doctors had some regard for religion. At present, we are here in need of a medical missionary, or a medical man who would occasionally conduct religious services. His station would be, at present, an outlying one, where there is no medical man within 45 miles, and where a minister preaches only about four times a year. The district is well able to give a suitable man £300 a year. There is another district in the Wairarapu, near Wellington, where the people are prepared to give £300 yearly, in addition to his practice, for a good Christian medical man, and between his practice and the amount promised, he would have at least £500 a year. If you know of a young medical man who has a character for piety, or even a regard for religion, you would greatly oblige me by bringing these openings under his notice. In this country, we need men of Christian principle."

The address of the Edinburgh Medical Missionary Society is 56, George Square, Edinburgh.

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A System of Practical Medicine by American Authors. Edited by W. Pepper, M.D., assisted by Louis Starr, M.D. Vol. II. General Diseases (continued) and Diseases of the Digestive System. London: Sampson Low, Marston, Southeard Printers, 1989. Searle, and Rivington, 1885.

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