

be expected to be most common. The lip and breast, both common seats have a very simple developmental process. I think then that we can dismiss Cohnheim's idea of Carcinoma springing from embryonic inclusions as not explaining in any way the origin of cancer.

Finally in the theories of causation we have the parasitic theory of origin. This parasitic theory has had and still holds a strong position, as being the actual causative agency in Carcinoma. There is, indeed, in many respects, a close resemblance between cancer and infective diseases, *e.g.*, their local commencement and invasion, their glandular metastasis and finally their generalized dissemination. But the tissue reaction against bacteria is always of a more or less inflammatory character, not as in cancer an atypical reproduction of the epithelial structures of the part. Cancer thus differs from all, or nearly all bacterial diseases in the changes being essentially in the epithelium. Several bacteria have been described in cancer, but none as yet have the slightest grounds for being considered causal.

Within this past few years attention has been directed to the closer relationship which exists between protozoal life forms and disease particularly of epithelial tissue. As instances of this I may point you to the lesions of the coccidium oviforme in the bile ducts of the rabbit, or to the animal parasite which causes molluscum contagiosum. Many observers have found what they consider to be animal parasites in the cancer cells, and some have even traced their life cycles. But the appearances which have been interpreted as protozoal life forms are capable of other, and to my mind, more accurate interpretation as being not life forms at all, but nuclear degenerations, cell invaginations or enclosed leucocytes. Further in the bodies of animal parasites we have certain chemical constituents, either chitin or cellulose. Neither of these have yet been detected in Carcinoma, though several careful chemical investigators have attempted to detect such. Though there are then some points in favor of the parasitic origin of cancer, it does not seem to be altogether plausible. Certain it is that we would have to have a special parasite for each variety; for experiment has clearly proven that we cannot produce cancer of another form than that inoculated (or in reality