another distinguishing feature. You will find that parts of the brain. the limbs are very much warmer where the muscles are paralyzed, and lessened in warmth upon the opposite side. There is then a double effect upon the temperature; increase upon the side of the with disease of one-half of the spinal cord.

affecting one-half of the spinal cord.

of one-half of the spinal cord, you will find that where the loss of movement exists. there is usually a feeling of stricture about onehalf of the body at a level with the seat of the DISORDERS IN THE KIDNEYS, LUNGS, AND HEART,

CONE OF ANAESTHESIA.

Typeræsthesia and one of anæsthesia. Nothing of diseasc. his kind is present in hemiplegia depending upon

As regards the temperature in the limbs there is upon disease of the medulla octongata, or other

GENERAL SYMPTOMS.

When there is disease in the medulla oblongata, lesion, and diminution upon the opposite side. But or pons varolii, there are general symptoms which these are not the most interesting features of such are of great interest, not so much for diagnosis, as You will find that the face is warmer upon for prognosis. They are important in deciding the side of the lesion, and that is because the fibres upon the chances for restoration to health, and the of the sympathetic nerves going to the blood-vessels chances of death; and also the means of treatment of the head are divided upon that side of the spinal are not the same as when the disease exists in other There is higher temperature in the face, parts of the brain. These general feature higher sen oility, and greater redness of the eye that, according to the seat of the disease in the base There is also a symptom to be observed of the brain, there are nerves implicated which show in the eye; and that is dilutation of the pupil upon where the disease exists. Supposing it to be in the side of the lesion. These are effects which we almost the entire length of the base of the brain. know will follow galvanizing the sympathetic in the from the origin of the optic bands down to the neck. All these effects are found in connection spinal cord, you will find that all the nerves which take their origin in that part are more or less im-The face that the muscles are contracted is in plicated in the disease. If you know what these consequence of the greater afflux of blood to the nerves are, you can easily understand what the part; it is not due to changes occurring in the symptoms will be. I will simply mention that as nerve centres, but to the local fact of being fed fur the third pair of nerves is implicated, certain results more abundantly than in health. Hence they are will be manifest in the eye, and you will find the in a state of greater tonicity, as it were; but there pupil affected, and the motion of the eye will be is no trace of paralysis on either side of the face. affected. Other nerves are implicated, and the That fact will serve as a diagnostic feature between effects are exceedingly complex, but they are in the form of hemiplegia depending upon disease of perfect harmony with the known functions of the one half of the spinal cord, and hemiplegia depend- nerves, having their origin at the base of the brain. ing upon disease in the base of the brain. Besides So the diagnosis may be perfectly clear, and you there are a great many symptoms of disease in the will find as a rule, that the paralysis, instead of base of the brain which do not exist with disease being upon the same side, as in the case of disease of one-half of the spinal cord, is upon the opposite I now pass to other facts. In cases of disease side of the body. If there is loss of feeling, it is

But there are other features: there are disorders At that place there is something that can be re- which take I lace in many of the organs of the body. cognized which is very interesting indeed, and The urinary secretion is disturbed; sometimes inwhich is in harmony with the view regarding the creased immensely, with or without the presence of ongin of nerve-fibres. As the lesion in the spinal sugar. When sugar is present, the quantity of cord necessarily destroys some nerve-fibres which urine is not so much increased as w'en the do not supply the motor-trunk, there is a zone of sugar is absent; but it may be considerably increas-paralysis of sensibility at the level of the injury in ed in quantity. We may have them in both forms the cord. Some of the sensory roots are involved: of diabetes—insipidus and mellitus. These two hence the loss of sensibility in that circumscribed forms of diabetes are found in connection with all legion. We have hyperæsthesia below and above diseases in the base of the brain, but they may the seat of the lesion, and a small zone of anxis- exist in connection with disease very far from the thesia at a place where the lesion occurs, so that brain. To my knowledge, these forms of diabetes the body is separated into three zones—two of never exist when the spinal cord is the seat of

There are many other features. I he e shown disease in the base of the brain. You an aiready that lesions of the pons varol i, or medulla oblongsee that diagnosis can be easily established, and you ata, affect the lungs almost at once. That is the see this much more clearly as I come to speak fact in most cases in which the lesion is made in of the symptoms of hemiplegia depending either animals. I may say that it is frequently so in man.