

or structure to a normal state, after which there will be normal function and normal conduct.

There are many persons under the impression that because a man is what they term smart, that he is necessarily an intelligent man. Never was there a greater mistake. An immoral criminal fool may be, and very generally is, smart, clever ; and, indeed, it is necessary to be such to be a successful criminal. But all that does not give proof of intelligence, no more than does the memory of words. An intelligent man must necessarily be a moral man ; indeed the terms morality and intelligence are synonymous terms. Morality and intelligence are functions of the higher nerve centres in the cortical substance of the cerebrum. These centres are cells whose functions are to receive the forces carried to them from without by means of the afferent or centripital nerves, also called sensory nerves. and when these forces are received, to adjust them and store them up for use when required, then, by their emissive functions, discharge these forces to the muscles by means of the afferent or centrifugal nerves, thus causing muscular action or conduct. These higher intellectual nerve centres possess not only the functions of receiving forces, adjusting forces, storing forces, and emitting but they have also the functions of sensation and inhibition ; and in virtue of all these functions, these centres are the centres of intelligence and conduct, and all these functions will be good or bad as the structure of the *materia cogitans* be normal or abnormal.

It is an established physical fact that the higher the nerve centres, the lower the organization ; and the lower the nerve centres, the higher are they organized. This explains how rapidly a man changes from sanity to insanity, from being an intelligent man to be a fool. It is a very slight cause that will injure the structures of the cells constituting the higher nerve centres, and, consequently, disarrange their functions because of their low organizations. It is well known what a glass of brandy, a dose of opium, or a whiff of ether or chloroform will do with these nerve centres ; fortunately, the lower centres, because higher organized, are not so sensitive to these drugs,