

some year or more ago, and I tried quinine but so far have not satisfactorily come to the conclusion that I gained any benefit by it. It may be that one does get some benefit, but I have not been able to satisfy myself on this point. In our treatment the question is after all, I believe one of vibration. We know that every atom has its own peculiar vibrations, and when two or more atoms are combined together, then we have a molecule which has its own peculiar vibrations and movements, a mean between the atomic vibrations, and now comes the questions whether these agencies may not start vibrations in the body in rhythm with the healthy molecular vibrations, just as goes on in normal health, or the stimulation of either the tubercle or other bacilli in this instance, or some of the products of their development so as to bring about health.

DR. ROBERT WILSON read a preliminary paper upon the use of the less active radio-active substances in medicine and gave a demonstration of apparatus.

G. P. GIRDWOOD, M.D.: Dr. Wilson is to be congratulated on the ingenuity of his apparatus. All these questions are problems which seem to me to be a little unworked out yet, and I confess that I have not had time to go into them at all. It is being done by other workers in the field, and Prof. Rutherford is one of them. We know that those rays, whatever they may be, coming from the X-Ray tube, are capable of producing certain effects and we find with a low tube we have certain effects, with a high tube others. In the low tubes we also get heat rays which with the higher vacuum tube do not seem to give the same effects. And here it is that we have the vibratory rays which are stopped by fluorescent substances and the rapidity of vibrations reduced. I am inclined to think that the general effects of these X-Rays are due more to mechanical vibration than to anything else. But this requires the test of time to prove.

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The following figures show the prevalence of quackery in the German Empire. In Prussia the number of persons who practise medicine without a legal qualification is 4,104, being in the proportion of 22.8 quacks to every hundred legitimate practitioner. From 1897 to 1902 while the population of Berlin increased by 30 per cent., the number of quacks increased by 57 per cent. There are in Germany 835 "nature healing" associations with a total membership of 111,887. In the course of three years 392,000 pamphlets setting forth the excellence of that system of quackery were distributed, and in 1902, 3,056 public addresses in praise of it were delivered. One of the journals devoted to the propagation of nature healing has a circulation of 112,000 copies.