general effects—drankenness, sudden death, the condition induced hy the habit of drinking, acute and chronic alcoholism; secondly, of the organic affectious thus brought on; and thirdly, of the inflaence of alcoholism upon the duration of bfe, npon posterity, and in reference to the degeneration of the human species.

In connection with delirinm tremens, which to the physician is the most important of the abnormal conditions brought on by alcohol, on account of its frequency and gravity, and of the judgment necessary in its treatment, two questions have been mainly agitated of late; viz., whether the disorder is due to a cimulative poisonoas effect, or to the sudden abstraction of an accustomed stimulus, and what is the line of treatment proper to be parsned. Unfortunately M. Racle passes both these questions over almost entirely, so that we are left in the dark as to the opinions of the profession in France in regard to them.

The remaining portions of this essay are extremely concise; they are devoted to different medico-legal and hygicale matters. M. Racle speaks of temperance societies as having been found very useful in America, "where they have multiplied sinco 1813." Without any desire to undervalue these institutions, we must remark that their importance was at one time much overrated. Where a mutual supervision is exercised by the members, such compacts may be of advantage; but the mere signing of a pledge, in a noment of enthusiasm, has in numberless instances proved utterly nugatory against a temptation so hesetting as that of intoxicating liquors. A tacit but practical acknowledgment of this fact is to be found in the circenmstance that the opponents of intemperance bave almost entirely nhandoned this method of instring reform.

Although this essay of M. Racle's can hardly lay claim to the title of an exposition of the subject of alcoholism, it presents n very excellent *résumé* of it, and will at any rate he suggestive to those who may desire to investigate the matter more deeply. J. II. P.

ART, XXVIII — A Treatise on Medical Electricity, Theoretical and Practical, and its Use in the Treatment of Paralysis, Neuralytia, and other Diseases. By J. ALTIAUS, M. D. Philadelphia: Linksung & Blakiston, 1860, pp. 354.

Atmocan a very large majority of those who are engaged in medical or surgieal practice-have, in the course either of their preliminary or of their professional education, acquired some general ideas as to the phenomena of electricity, yet their knowledge of its laws is, for the most part, much too superficial to enable them to employ it therapeatically. The object of the volume before ns is, as its title indicates, to assist the profession at large in making use of this most powerful agent in the treatment of disease; and its author may congratalate himself apon having materially contributed to the advancement of medical science.

Dr. Althaus has arranged his subject nnder five heads, in as many chapters. He first describes the different forms of clectricity—static or frictional, dynamic, including galvanism and clectro-magnetism, and animal; next, its physiological effects upon the living organism and its component parts; in bis third chapter he discusses the apparatus for its medical application; fourthly, he treats of its use in diagnosis; and lastly, of its therapenatical employment. Atmospheric electricity and lightning form the subject-matter of a hrief appendix.

Under the head of electro-physiology, Dr. A. has given a very interesting resume of the results arrived at by Weber, Mattencei, Schönhein, Du Bois Remond, Nohili, and others. 'The most interesting portion of this chapter, and the most important, is that relating to the electrization of the nervons and museular systems. Dynamic electricity is the form employed in these researches, as well as for remedial purposes, on account of the convenience of generating, regulating, and localizing it.

Daniell's battery, consisting of zinc plunged in salt or acidalated water, and copper in n solution of salphate of copper, is the one preferred hy Dr. Althaus for medical nse. It would require a greater space than we have here at command to pass in review the various forms of apparatus invented by Crnikshank, Middeldorpff, Ellis, Breton, and others, for galvanization, or the application of the continuous current of galvanic electricity; or those of Clarke, Duchenne, and others, for Fundization, or the employment of localized induction currents. Among the former, Pulvermacher's chain has obtained much favour in this country; among the latter, we helieve that the magneto-electric apparatus of Davis is most generally used.

In his fourth chapter, on the nsc of electricity in diagnosis, our author quotes the opposing views of Dr. Marshall Hall and Dr. Todd, as to the influence of cerebral discase apon the degree of irritability of the maseles; he coincides with Dr. Todd in the opinion that in this respect cases of paralysis may he divided into three classes:--

"1. If the excitability of the muscles—or rather the polarity of the motor nerves—he *increased* in the paralyzed limh, the case is one of *cerebral paralysis*, connected with an irritative lesion within the eranium.

"2. If the excitability of the muscles he nearly or totally lost, we have in all probability either *lead palsy* or *traumatic paralysis*; but it must he kept in mind that certain hystorical and rheumatic palsies of long standing present the same peculiarity; and that it also may he found in cases of disease of the hrain and the cord.

". If paralyzed muscles respond readily to the electric current, there is no lead in the system, nor is the connection hetween the motor nerves of the paralyzed muscles and the cord interrupted; but if such cases are of long standing, they are due to brain discuse; and if they are of recent standing, they are generally instances of hysterical, rheumatic, or spontaneous paralysis."

Chapter V., on the therapeutical uses of electricity, is, for obvious reasons, the most important one in this work.

The medical employment of this remedy is chiefly for the relief of affections of the nervous system—loss of power, spasm, neuralgia, and anesthesia. But, as Dr. Althans remarks, these coaditions are merely symptoms, capable of heing produced by widely different disorders; and their causes must be carefully made out before electricity is resorted to.

As might reasonably he expected, cases of paralysis from intra-cranial disease are not very often amenahle to electricity, which promises much more, we are told, in "eases of hysterical paralysis, rheumatic paralysis, lead palsy, iacomplete paralysis of the lower extremities, connected with disease of the urinary organs; cases of spontaneous paralysis, in which it is impossible to distinguish the cause of the losion. Finally, cases of perverted nutrition and atrophy of the muscalar substunce are almost always beneficially affected by the application

Cases of paralysis from hrain disease may, as pointed out by Dr. Todd, he divided into three classes, according to the state of the muscles of the part or parts affected. If these he relaxed and non-resistant, a carefully localized on at the outset, interference in this way would he uscless. If, however, the incidity anceceds a period of wasting and relaxation, there are cases in which the antagonist muscles may he electrically excited with advantage.

Varions local palsies are enumerated by Dr. Althans as likely to he henefited by electricity. The massles of the eye, and those supplied by the facial nerve, may have their function restored in this way. Hysterical aphonia seems to have jielded readily to Farndization. Wasting palsy, hopeless ander any other form of local treatment, may perhaps he arrested, or even corrected, by the judicions, and persevering nee of electricity. Intestinal atomy, and paralysis of the hladget, when not due to any cerebral or spinal lesion, may in like manner he olvinted. Dr. Althans states that he has relieved cases of amenorthom by means of electricity, and quotes the similar experience of Golding Bird. Dneheane, and others : Becquerel, however, did not find it effective in a single instance. We are inclined to object to this merging together of all cases in which the entamenia are wanting in view of the purely symptomatic character of this circamstance; perhaps there is no almormal phenomenon which needs to he more carefully traced back to its source than this, in order to a judicious choice of treatment. Among spasmodie affections, chorea and writer's cramp nre mentioned by anr anthor as having heen rélieved by electricity, which he thinks might also prove beneficial in this form of wry-neck, in tetanhs, and in hysterical cramps.

Anesthesia, as regards either special or general sensibility, is amenable to improvement in varions degrees ander the nse of electricity. When of a hysterical form. Dr. Althans regards it as speedily carable by this agent, which is also very valuable in many cases of insensibility from poisoning.

Neuralgin, when caused by woands or structural lesions of the nerves, of the passages through which their coarse lies, or of important organs, affords hardly may chance for the successful operation of electricity. When, however, it seems to be a mere morbid exaltation of sensibility, or is of n rhenmatic character, Faradization may be resorted to with advantage.

In regard to the surgical uses of electricity, we think Dr. Althans speaks a good deal in the manner of a medical theorist. Perhaps more is to be looked for in this way in the treatment of nearrisms and varices than in any other department of practice, nuless it be in the prevention and care of bed-sores. The time may come when lithotomy and lithotirity are superseded by the galvano-electric current, but the results hitherto ntinined have not heen such as to indicate its near approach; nor do we think that the neutral cantery is any less painful when the source of the heat is clanged. From the past history of surgery, as well as from the practical experience of the present day, we may learn that the utmast cantion is to be maintained in abandoning principles and methods which have heen alrendy tested with success, for those which merely bold out brilliant hopes. As a general rule, the simpler the means used the better; we ennot do away with the elements of noncertainty in the material npon which we have to work, hat we can narrow them lowa in the appliances to which we resort.

The little volume which has now been discussed will undonbteilly he of great service to medical men. To those who simply wish to employ electricity in exceptional cases, it will affer dan excellent manual; to those who are desirons of pushing their investigations further, it supplies ahundant references to the literature of the subject, as well as a clear exposition of its fundamental priaciples. J. II. P.

Anr. XXIX.—Proceedings of the American Pharmaceutical Association, at the Eighth Annual Meeting, held in Boston, Mass., September, 1859, with the Constitution and Roll of Members. Boston: Press of Geo. C. Rand & Avery, 3 Cornhill, 1859.

Turs is the eighth exposition of the annual labours of an institution now permanently organized and placed upon a successful basis of operation. In the year 1852 the pharmacentists of the United States, following the example of their medical colabourers for the public weal, determined to co-ordinate their efforts, with the view of advancing the science under their especial cultivation; of promoting harmony and good feeling among those whose interests were similar; of correcting abuses which have hnng over the occupation of dispensing and vending medicines, and of securing generally the elevation and prosperity of the profession of pharmacy. In this enterprise they have been eminently snccessful, and, jndging from the last and the present annual record of their proceediags, seem to be becoming more enthusiastic and effective each succeediag meeting. They have demonstrated effectively that in union there is strength, and that it is only necessary to continne their nseful undertaking to secure the highest respect and commendation from the community. With the view of pointing out the scope and the utility of the lahours of our pharmacentical cooperatives, we shall devote what space is at command to the examination of the present volame of proceedings.

The volume is printed in handsome style, and consists of 416 pages, commencing with a report of their minutes. From these we learn that the meeting at Boston, as heretofore, was well attended, *jrfysfice* members having been