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THE-JOURNAL-OF INEBRIETY

Incorporating The Archives of Physiological Therapy

T. D. Crothers, M. D., Epitoke 28 190

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LISTERINE

The original antiseptic compound

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Listerine represents the maximum of antiseptic strength in the relation that it is the least harmful to the human organism in the quantity required to produce the desired result; as such, it is generally accepted as the standard antiseptic preparation for general use, especially for those purposes where a poisonous or corrosive disinfectant can not be used with safety. It has won the confidence of medical men by reason of the standard of excellence (both as regards antiseptic strength and pharmaceutical elegance), which has been so strictly observed in its manufacture during the many years it has been at their command.

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THE JOURNAL OF INEBRIETY

Incorporating The Archives of Physiological Therapy

VOLUME 2

WINTER. 1907

NUMBER 4

INEBRIETY-ITS CAUSATION AND CONTROL

The Second Norman Kerr Henoval Lecture

By R: Welsh Branks, alte, M.D.

H. W. Inspector Under the Indocutes Art.

edge a personal responsibility in reabstamer or otherwise, must acknowle * Read before the Society for the Study of In-correty at London, Oct. 7, 1997. himself and his weaker friends from unsound and a moral duty to protect gard to the care and treatment of the of alcohol. Every sound man, be he total abstinence or the moderate use their individual opinions regarding national welfare quite regardless of intelligent interest in questions of portance to all persons who take an well be considered of extreme infor any means calculated to reduce of the condition and persistent search cient justification for a careful study tion with these conditions is suffiexercised by habitual drunkenness in disorder and crime, its mere associaeach of us regarding the influence Whatever may be the opinion of tion which is so closely associated mon-sense lines to remedy a condiinte measures, it is a matter of daily the disgrace, rum and danger which been made by them on broad comsurprise that no organized effort has eineed of the necessity for more def how many practice persons are con cept on the grounds of ignorance and drunkards is not easy to explain, exapathy of the general public regard the foregoing conclusion the apparent to result in material relief of expen stanelpoint of any measure calculated scalled upon to subscribe towards the alcoholic taker or abstainer, who is more, every householder, whether an accompany mebriate habits. Further misconception. ing the treatment and control diture. When full weight is given to maintenance of social wrecks, must see the value from an economic Knowing as I do

THE JOURNAL OF INSERRETY is published querterly in the months of March (Spring), June (Sammer), Spriember (Autuum), and December (Winter) at 50 cents at copy, \$2.00 a var. Subscribers not receiving their copies by the end of these months should limited springly by the publisher. At it is the wish of most subscribers to receive unbruken volumes THE JOURNAL is sent until ordered discontinued. This notice may be given at any time. Entered as second-class matter, April 10, 106, at the fost Office at Boston, Mass.

half million of persons have banded with all the exils of civilization. such interest is awakened to a suffiquestion has been wanting, and I lear est in the drink problem. Up to the country with a view to the ultimate source the dranking habits of our is estimated that some three and a meet with approval and support from to induc them with the certainty that that little progress will be made until present time general interest in the from, or in addition to, general interbandial take a real practical interest Although in the United Kingdom A the broad-minded. detailed treatment of the subject will makers the necessity for action, and cient extent to impress upon our law

of abstinence, and fully realized the milled by prejudices, and in order drunkard might be instituted, untramregard to the question of personal philanthropists and scientists, without necessity for conjoint action between a cold blooded common sense inquiry body of persons who would engage in totalers and otherwise-to form a view, he invited all and sundry-teemajority. With these objects in that some interest in the subject might habits, in the hope that a study of the inchricts. Constituted thus, and conunprejudist society for the study of into the matter of the drunkard-and should wield an enormous power for ducted on these principles, our society Dr. Norman Nerr was an advocate kindled among the moderate and eventually succeed in

this original scheme still governs its who are still aparthetic. The motives awakening sympathy among those which directed its foundation were logical, psychological, medicolegal many years past, under Dr. Norman ness with which it has tackled the and ethical aspects of the inchriate and published bearing upon the patho osthodox or reactionary attitude. For for the possible assumption of an unconstitution justifies me in speaking existence. In any case the belief that actinizable, and no better purpose can ness with which it has warranted its problem. We have heard a great deal work. Many papers have been read offices, the Society has done excellent him in secretarial and presidentia guidance of those who have follower freely and without tear of exection be found to control its continued founder. out the intention of its principal title in so doing, and thereby carried study of the subject, the completebe congratulated upon the thorough the whole, therefore, our Society may fairly well how opinions differ. On learned much-at any rate, we know Nerr's direction and under the able about heredity, and ought to have

So thoroughly has the scientific position been ventilated that I am conscious of my mability to add much of value to what has already appeared from time to time, not do I propose to attempt the impossible. My unique position, however, as the only man in close touch with all inchriates under legal detention in England justifies me in assuming that some record of my personal observa-

der collective conditions. Mabitual may escape motice when reliance is of mental or physical variation from wards I may perhaps be permitted to mate association with his kind. Afterthrough something like 25 years inticome evident and unmistakable implaced upon isolated cases, often be in mass: definite characteristics which the normal, numerous advantages are theoretical, contention. In all forms otherwise of scientific, more or less sary for adequately dealing with the efforts fall short of what is required. indicate the principles which govern scribe the inebriate to you as I have to practical work, endeavoring to demyself to matters which relate strictly rule. I therefore propose to comme proved no exception to the general gated from normal individuals, have drunkards, studied as a class, segreobtainable from the study of cases and the additions which are necesthe treatment and control of drunkround, studied and weighed binn, the be useful in support or directions where such

In the meantime, a few words may seem desirable to indicate my interpretation of the word inchriate lest misapprehension arise, and subsequent remarks be taken as applicable to persons who do not merit inclusion. Viewed from an alcohol-drinking standpoint, all classes of society may be divided into those who take alcoholic takers may again be subdivided into (a) strictly moderate, the careless and occasional excessive drinkers and (e) habitual drunkards.

of the public funds, or commits dispends his savings to the detriment moral means; if these fail he beinated from consideration for preand may therefore be practically elimis still on the right side of the line cerned merely passing attention will ally excessive drinker and the habit cration—the careless and occasion the moderate drawer, we have the consequent upon many weakened is possible that degenerative changes tory, to bring him to his senses. of control more penal than reforma crime when under the influence of comes a nuisance to the community requires education into sobriety by ent purposes. He is a person who pulses, and power of judgment, be sense, power of control over inperhaps to some extent, in mora power to remain subar, if he ract that the former retains type and the habitual drunkard is the difference between persons of that suffice then we may also dismiss him stonally excessive definiter is conhal drankard. As far as the orealast two subdivisions left for consi-Chiminating the total abstance an niac is concerned, these terms ebriate, chronic alcoholic, or dipsoma mains outside the class in which we eventually bring him into our bands vivial incettings, or banquets, may drink; he needs coercion in the shape desires to exercise it. Lacking however, as a habitnal drunkard, m are especially interested. but 'antil these changes occur he re "drinks." bank-holidav sprees, con The essentia

is a man who may or may not desire

exceedingly simple one, and as sach

My conception of a definition is an

is commonded to you. An inchriste

ally congenital, sometimes acquired defect in mental mechanism, genersource of all the mischief, is inherent trouble we have to fight and the condition we have to study, the more I am convinced that the rest more I see of habitual drankards, the take place in his mental state. The not unless and until some changes to live soberly, but in any case can meriting the term inchriate, would alcohol the same persons, instead of ing influence. In the abstinence of might otherwise have remained hidprominence certain defects which cause of habitual inchricty. Is merely of all the 8.000 or more I have known. meiancholic tendencies or excentric passionate individuals, persons of morality, excitability or abnormally do-weels, profligates, persons of lax bave proved unreliable in other ways. den, but for its exposing or developand have fought to this end and am convinced that all who possess a made himself so; on the contrary. If Monhol, far from being the chief am inclined to think that sufficient man is quite incapable of realizing. I ness, the strength of which, a normal failed in a struggle against weakhonestly desired to have a sober life. their condition have urgently and rium to appreciate the seriousness of sufficiently developed mental equilib-I do not believe that any drunkavel. They would have been called neervoluntarily and of intention. medium which brings into

existing defects. In other words, I the absence of some measure of predefined, is ever really acquired in the ness of power to resist impulses which methiation, or to the inherent weak credit has never been given to the ever, in my opinion, that the man nuits himself to include occasionally habitual drunkard, even if he peras to the probability of any normally an seeptical-very sceptical indeedstrictest sense of the word—that is, in whether habitual inchricty, as above seems to me exceedingly doubtful that his power over himself remained either, been unconscious of advancing transit from one condition to the individual has, during the course of through persistent earcless habits, the ety has apparently been acquired successful. When confirmed include renders his siruggle for victor and honesty of an inchrang's tight against possible existence of unrecognized regarded as a safe one, because of the potent to disturb the equilibrium of without the intervention of nerve in a fair measure of eareless drinking constituted individual becoming a unaffected long after it had gone. It of our hardest thinkers and hardest This, I think, explains why so many without apparent detriment, during a who has taken alcohol regularly mental detect, there is no doubt whatnervous and mental mechanism shock or other influence sufficiently slavery: he has honestly believed impulses and power of judgment equilibrium, power of control over of the most perfect tests of menta long life, has applied to himself one Although the experiment cannot be

> they are at present. In State and cercases at close quarters, a position of all classes and of all types of enables us to make a detailed study of 1879 and under the Act of 1898, and prison recidivists, mostly addicted posed of individuals who are habitual with the lowest stratum of humanity. any time in the history of the world under the Habitual Drunkards' Act criminals, frequenters of police courts that sad and hopeless laver comtified reformatories we have to deal conclusion have been greater than when the chances for observation and country. In fact, there has never been which is not shared by any other very least. to me to alter the position in the sider themselves safe does not appear The fact that the unsate also conwise, they are safe, and they know it is no reason for them to be otherworkers are moderate drinkers; there The control of inchriates

to violence, brawling and immorality more expensively conducted retreats criminal complication. Again, in the and middle class retreats; mostly are the persons who have volunselected cases may be considered, for sonal history of moral conduct. These general ruck, on account of better cent, and usually without taint or artisans or their wives, they are dehave been received into the lower tarily applied for admission, and better than those previously menour present purpose, some degrees education, social position, and a perare capable of segregation from the are committed to these institutions A small uninority of persons who Still better in many ways

Without a thorough knowledge of

ner of treating the subject is necesdistinguished peculiarities. This manfeatures in obscure or modified form cases or from the discovery, after son of their association with bad milder cases being classes as variawell developed, severe example, the ease amounts to a pen picture of a the causative poison is the same to distinguishing characteristics are abothers more definite. In these cases would not be recognized but for the nearly every common ailment. For monly met with in mild attacks of sarily owing to the variations comdisease may exist without many such and afterwards show how the same those characteristics which are near in the first place to a description or and that the types are extremely not limited to any one class or sex that our possibilities for study are sexes. It will therefore be evident dies and wealthy persons of both treats contain members of good fantthemselves. The most expensive rewe find tradesmen, professional men tions of the same condition by reawords the description of every disall intents and purposes. In other sent, notwithstanding the fact that fact that they are found among is epidemic, cases often occur which instance, when an intections disease ly always present in a typical case ic disease to restrict his attention of a monograph relating to a specifvaried. It is customary for the writer have sufficient means to maintain and persons of no occupation who careful search, of some unknown

My conception of a definition is an exceedingly simple one, and as such is commended to you. An inchriate is a man who may or may not desire to live soberly, but in any case cannot unless and until some changes take place in his mental state. The more I see of habitual drunkards, the more I am convinced that the reat condition we have to study, trouble we have to fight and the source of all the mischief, is inherent defect in mental mechanism, generally congenital, sometimes acquired. Mechol, far from being the chief cause of habitual inebriety, is merely the medium which brings into prominence certain defects which might otherwise have remained hidden, but for its exposing or developing influence. In the abstinence of alcohol the same persons, instead of meriting the term inebriate, would have proved unreliable in other ways. They would have been called ne'erdo-weels, profligates, persons of lax morality, excitability or abnormally passionate individuals, persons of melancholic tendencies or excentric. I do not believe that any drunkard. of all the 8,000 or more I have known, has voluntarily and of intention. made himself so; on the contrary, I am convinced that all who possess a sufficiently developed mental equilibrium to appreciate the seriousness of their condition have urgently and honestly desired to have a sober life. and have fought to this end and failed in a struggle against weakness, the strength of which, a normal man is quite incapable of realizing. I am inclined to think that sufficient

credit has never been given to the honesty of an inebriate's fight against inclination, or to the inherent weak ness of power to resist impulses which renders his struggle for victor, unsuccessful. When confirmed inebriety has apparently been acquired through persistent careless habits, the individual has, during the course of transit from one condition to the other, been unconscious of advancing slavery; he has honestly believed that his power over himself remained unaffected long after it had gone. It seems to me exceedingly doubtful whether habitual inchriety, as above defined, is ever really acquired in the strictest sense of the word-that is, in the absence of some measure of preexisting defects. In other words, I am sceptical-very sceptical indeedas to the probability of any normally constituted individual becoming a habitual drunkard, even if he permits himself to indulge occasionally in a fair measure of careless drinking, without the intervention of nerve shock, or other influence sufficiently potent to disturb the equilibrium of nervous and mental mechanism. Although the experiment cannot be regarded as a safe one, because of the possible existence of unrecognized mental defect, there is no doubt whatever, in my opinion, that the man who has taken alcohol regularly without apparent detriment, during a long life, has applied to himself one of the most perfect tests of mental equilibrium, power of control over impulses and power of judgment. This, I think, explains why so many of our hardest thinkers and hardest workers are moderate is no reason for then wise, they are safe, and The fact that the unsider themselves safe d to me to alter the p very least. The contro under the Habitual I of 1870 and under the enables us to make a of all classes and o cases at close quarte which is not shared country. In fact, there any time in the histor when the chances for conclusion have been they are at present. I tified reformatories w with the lowest stratu that sad and hopele posed of individuals w criminals, frequenters and prison recidivists. to violence, brawling

A small minority are committed to the are capable of segres general ruck, on aceducation, social posit sonal history of mora selected cases may be our present purpose. better than those tioned. Still better are the persons wh tarily applied for have been received and middle class artisans or their wiv cent, and usually v Criminal complication more expensively co

aiterwards endeavor to show that th certified inchriate releginatories, and the same course; deal first with ease I can hardly do better than follow regard to my present subject I think andoabtedly escape recognition. In severe types, the milder ones would such as those admitted to states or men or woman commits an oftense thereto from centrs of justice. If a reformatories are all sentenced mitted to state and certified inebriate with in ordinary life. The eases ac iore among all inebriate cases me milder cases in retreats, and there present in modified form among the same special peculiarities are usuall and can be proved to be a habitual drunkenness and disorderly behavior ment, or is repeatedly convicted of instead of a sentence of imprisontention in an inebriate reformatory magistrate to order a sentence of dedrunkard, our law permits a judge or rollowing table relates to these cases of 2.275 committed to special care details concerning the mental states to submit for your information some under this power, and I now propose have been committed to detention and is a text for my subsequent previous to Dec. 31st. 1006. The remarks: exhibit is punishable by imprison-Many habitual drunkards marked symptoms

tion into four groups-insane, very will show that upwards of 62 per defective, defective, of average menfigures placed against each section It classifies all the cases in ques-A brief glance at the

	-	•	15	7	
Total Admissions	Of average mental capacity—on admission, or after six months detension	Defective—as above, but less market- eccentric, silv, dull, senile, of sub- ject to heriodical paroxyans of un- governable temper.	Very defective - imbeciles, degene- rates, epiteptics	Insane—certified and sent to asylums.	Classification According to Mental State
1757	.781	1000	315	21	Number in each Class.
79TT	1111	ā.	62.6	16.1	Percentage to Total Number of Persons Admitted to Reformatories.

may say, at the outset, that the capacity. In regard to the latter I that only a little over 37 per cent. can or defected in varying degrees, and cent, have proved to be either insane be described as of average mental erably smaller had I not been mal standard in ordinary life; in for the purpose of this classification standard of mental capacity adopted and we are not. Every effort to fine distinctive peculiarities, or even hints atories, none are so definite as those study of inmates of inebriate reformpeculiarities encountered during a Among all the characteristics and an indictment for exaggeration anxious to avoid the least chance of here shown would have been considother words, that the percentage by what would be considered a noris an exceeding low one, if judged these people are habitual drunkards of any other common condition ease. There are no other genera which would point to a reason why ascribable to mental defects or dis

of other affections, the fact that cercharacteristics in many mild attacks ic variation met with in other dis-When we remember the symptomatcent, and suspected in the remainder. is clearly obvious in 62 or 63 per enness is mental defect or diseasefundamental cause of habitual drunksively satisfied all in close touch with the main influences' which conclutal aspect of inebriety occupies such portance. in milder cases becomes of little imin reformatories, and not so apparent are associated with the worst cases tain distinctive peculiarities, which eases, and the absence of definite an amount of defect or disease which inmates of reformatories that the search for other agencies have been we do find and the negative result of tion, it becomes necessary to refer a position of importance in causaunder our notice. If then, the menthe midst of all the cases which come made, the same characteristics can and sent to asylums during their cluded except those actually certified fied as insane, none had been information of habits of drunkenness bearing each is likely to have in the reformatories, and reflect upon the defect and disease found in inebriate briefly to the various forms of mental be found, although modified, even in reformatory sentence. At least four Among the fifty-one persons classicauses, apart from those assowith psychic or neurotic abpresence of the conditions es, has failed utterly. The viously demented; a fourth class which gradually merged into mania others were in an excited state. to be suffering from delusions when actually sent to asylums were found the cases included in this group as which might have been sent without actually sent to asylums, not those therefore, only represents the cases The number of cases in this group police-court history, or (2) in a state either actually insane during their mania; and a sixth were the subjects epileptic, with violent attacks of were melancholic and suicidal; a fith first admitted to reformatories: any misuse or too liberal constructy of inmates of this description were fore certain that (1) the large majoridetention as inebriates. It is, therethree times, during their period of and subsided, in some cases two or of recurrent mania, which developed a third section contained persons obtion of the word "insane." Some of

INEBRUETY-ITS CAUSATION AND CONTROL sufficiently definite evidence of delusubjects of mental disease in fairly tion, or melancholic state, to render sion, hallucination, maniacal condicondition of the more obvious symp advanced form, but have escaped been considered insane-that is, the or five times this number have justly tween asylum and reformatories more, if certification is resorted to more than a brief period. Furtherdetention in an asylum probably for toms, and the difficulty of finding certification owing to the transient ferring our inmates to and iro bepossible, we should always be transwhenever such a course becomes

which they were repeatedly imprismental disease was the condition for = oned - mental disease merely masked hordering on insanity, and (3) that tremely difficult to determine; their and insanity in these cases is exthis, when good information has been able to piece it together, supplies too previous history, so far as we are relationship behavior, excitement, or melancholy, disturbance, as evidenced by criatic pointed to the existence of the brain definite conclusion. Notwithstanding little reliable information to wattrant perience indicates that the mental mens, or to shock after shock to the coholic epileptiform convulsions and persistent alcoholism, to repeated alto tissue degeneration produced by disease, in some cases, may be due habitual drunkenness. accompanies every sentence of the den discontinuance of alcohol which nervous system arising from the such recurrent attacks of delirium tredence of approaching mental disornot insane as the result of alcoholisfied that the majority of our insance drinking. But, for all that I am satprisonment imposed during heavy enness was merely precursory eviism, and that the preceding drunkbecause of their tendency to insanity. gard to such types as are hereafter to for the cause of drunkenness in rebe discussed I think that there can Whatever we may determine to the commencement of have become alcoholic ındulgence. between has nearly always Ordinary exdrunkenness The exact

not in any sense to be studied or a symptom of mental disease, and jority of units in this group are conties of both are the same, varying treated in any other light. The "very cerned, that drunkenness is merely be no doubt, so far as the large maonly in degree. "Defective," in the considered together; the characteristhe above table may reasonably be defective" and "defective" groups in age standard of mental capacity, but sense used here, includes every persient paroxysms. Certain peculiaricertifiably insane during short, tranof insanity, or only now and then insufficiently so to justify a certificate is found to be much below an averson admitted to reformatories who ties in cranial conformation, general ment. The smaller number of cases cases included in the two "defective" genital defect. Nearly all the 1,375 been recognized as evidences of conphysique, and conduct have long brain degeneration produced by perwanting are probably instances of capped by imperfect brain developjority of them started life handimorally certain that the large macharacteristic peculiarities, and it is sections of our table have given eviadded to original defect that diffivons disease senility or other cause. sistent alcoholism, advancing nerwhere evidence of early defect is lence of possessing some of these culty arises in appostioning the true It is when degenerative changes are significance of each.

Unfortunately for any hope of clear distinction, there are many in-

indental formation have also been haps the most conclusive evidence of abnormalties in shape of pallat and mis-shaped, eyes irregular, and some are often found asymmetrical, nose flabby, expressionless face. Features thin-face congenital, with high-cheek irregularity in upper or lower jaw after case of developmental arrest or small or mis-shaper, heads, and case our defective inebriates, abnormally stunted growth can be found among cal signs of arrested or distorted ence among inmates of certain physipoint of view, is the common prescongenital defect, from a scientific placed upon other indications. Perapproximate diagnosis must be inquiry is negative, and reliance for enough; but too often the result of cases during infancy and childhood is be traced, and the life history of from birth. When antecedents can of defect existing at or resulting and immorality than with the signs by a subsequent life of drunkenness more prominently when sent to regenital detects, who are marked enough to warrant a certainty of conmates with family history strong abnormalties are to be found in mennoted. In short, the same physical beady eyes, softage jaws and dull. repulsive, masculine type, with a tenbut more common still is the heavy; ears, and shifty, hunted expression bones, deep-placed eyes, projecting known, formatories with the damage caused There are plenty of examples of the to violence and brutality, the evidence is strong Many instances 21

of judgment. Of all the three charover impulse; and (3) defective power moral sense; (2) imperfect contro moral sense is, perhaps, the most acteristics, impaired development of characteristic mental symptoms obtunately, the grounds for proof are city when under control. But, notcongenital basis for the impaired many physical signs to indicate a need little comment; they illustrate servable in these cases may be conment of drunken habits. The chief ceded or succeeded the commenceall, the main point is not so much than a suggestion of something apsality of congenital defects. Unforprepared to insist upon the univerwithstanding my opinion I am not character, conduct, and mental capaall of them. Although there are so recognizing something wrong with trained eye will have no difficulty in and facial indications of congenital somewhat imperfectly the cranial tographs accompanying this lecture in less degree, because the defect is ent among idiots and imbeciles, only impaired mental development of sidered under three main heads, (1) not as whether, if it exists, it is prewhether the defects are congenital or the most evident peculiarities. Afte not definite enough to justify more condition of inmates in these groups of reformatories. defects found in this type of inmates tally defected inebriates as are presproaching a congenital basis for all to be obtained from a study of their by far the most practical evidence is less severe. The sketches and pho-Even the un-

vious to drunken habits. The early is most likely to have existed precases, and the one of all others which apparent in the largest number of bility of congenital origin. Odd and tom is marked has justified a probahistory of all cases where this symping like other people. There is often peculiar from birth, these persons chorea, or other neuroses; as chilhave always seemed incapable of actpear to be unable to tell the truth, wage-carning occupation. They apcapacity to learn the details of a and as adults unemployable from indren they have proved meducable. reason why they should do so. They and cannot be made to see any moderate amount of are filthy in habits, and require others in matters relating to conduct. care in the least for the opinion of when under detention. They do not supervision, even force to ensure a history during childhood of fits. nor can they be induced to see any cleanliness

(To be continued)

should be obeyed. reason why dictation from others

choose to adopt is justifiable, so long tution is justifiable, any course they and an uniriendly attitude is maninecessity of obedience, to moral law, stand the ethics of social life, or the sense, they cannot be made to undertheir conduct. Deficient in moral as they can show to their own satisexercise refining influences. These faction some so-called reason for legally, irresponsible. persons are drunkards because they fested towards all who endeavor to are anti-social; they are incapable of a direct result of mental defect, for sound first and an incbriate afterthat these persons are mentally unclasses to no unconsiderable degree: numbers of the habitual criminal be otherwise. They help to swell the the advantages of even attempting to being otherwise, or of appreciating which they are virtually, if not wards, and that their drunkenness is There can be no doubt, whatever, Drunkenness is justifiable; prosti-

potency as opium." "Few drugs are so variable in their Another damaging admission:

are pain, then excessive secretion. or its derivatives are administered methods and substances must yield mic use of morphine; all other nothing comparable to the hypoderit as promptly as possible, there is indication, and it is desired to relieve rhage, and fever. If pain alone is the restlessness, sleeplessnes, hemor-"The indications for which opium Lesser pains may be

THE USE OF OPIUM IN PREFERENCE TO ITS DERIVATIVES

By H. C. Abbott, M.D. Chicago, Ill.

reader study Dr. Currier's prize essay. tion of the alkaloidal side that the suggest as the best possible presentasairs on the above topic, it is sup-Andrew F. Currier, and we would that could reasonably be said upon posable that this would bring out all having offered a cash prize for es-The New York Medical Journal The first prize was awarded to

any opiate at all? And why not

enough to justify morphine why use

of the extract?

For excessive secretion, paregoric.

the bowels by flushing, disinfecting, remove the cause of irritation, if in Is that his best effort? Doesn't he solve the indeterminate dose of that and save the time required to dismake the suppository of morphine

alkaloid out of the encumbering dirt

opium." But if the pain is not vic pangs by suppositories of soothed by opinin galenies, "and pel-

and quantity of effect from his dirty that the uncertainty as to the nature able to introduce the minimum, as to phine, etc., when it is deemed desiruse of morphine, codeine, apomorfore, an immense advantage in the much inert material; "there is, therealkaloids compelled the ingestion of in vogue before the advent of the as presenting the doctrine for which quantity, into the body." crudities constitutes a further objechis journal pays, he forgets to add Dr. Currier says that the opiates Naturally,

> pine? Or hydrastine? Does any doesn't he know the value of atrotion-excess be the main indication stopping fermentation, and if secre-

do not quite like to take this as cor-

remedy for excessive secretion? journal rely on paregoric as his best reader of the New York Medical

and reliable Dover's powder?" somma, what can surpass the old quire a book. Does anybody nowrect. numerous antipyreties, eliminants of us seek to find and remove the trust not, preferring to believe that all lever, restlessness or insomnia? We adays administer Dover's for either many things that a reply would revasomotor equalizers, to use an opi-Fever? tive and less perileus agencies tack them directly with more effeccause of these symptoms, or to at-"For fever, restlessness and With hydropathy, the

atc. Restlessness? Our last case was due to an unspoken desire on the part of a sensitive, retiring child to go to college. An opiate, Insommia? Opiates.

Dover's powder has its uses, and when replaced by morphine and emetine we get its benefits as never in the old, uncertain crude form; but it is not as a remedy for the three in dications mentioned.

For hemorrhage Dr. Currier mentions cotaruine, which he decent like; and leaves us in the impression that he relies on crude optum as a hemostatic. Well, we hope we do not fall into his hands with a per 70% bleeding if that he his hemostate therapeuties. Cotaruine has proved valuable in Telvie hemorrhages in too many hands to be condemiced to even Dr. Currier's failure. But opium as a hemostatic when we have atropine, ergotin, digitalin, and the many direct and effective agents in that line?

Grant that opium is a valuable hemostatic. Do we not need our blood-stanchers to be prompt and decided in their action? Then why give the slow and uncertain galenies when we get from a morphine hypo our desired action at once? The only hemostatic effect we can get from either is vascular relaxation, and sometimes a full, overpowering dose of morphine will afford this, as in post partim cases, when attopine is not at hand.

If that he the best presentation possible for crude opiates that a cash

prize can elicit, the case is weak indeed.

calculi, etc. Mechanical relief for int applications of the therapentic prominent, as it is in most of the atropine if the spasmodic element is strangulated vissues with gangrene the pains of constriction or compresworst forms gallstone and renal certainties, the alkaloids. tinal pains - would you lock up the restored? Vasomotor relaxants for as a result if the circulation is not irritant in the bowels and stop perilocally. Evacuants for gastrointesinflammatory pains, with heat or cold sion-would you trust opinii for cactin. So with any severe, continunation of morphine, hyoseine and causes—the maximum of relief with compares with the alkaloidal combifor inoperable cancers no opiate gias, or for assmeno-rhea? Even autotoxenic headaches or neuralstalsis? Would you give opiates for which was an utter impossibility as exils comes from that combination ous pain from similar irremediable only. This can not be done with the drugs. What further prizes await the the minumum of drug and of habit crude drugs, because their action is combined, on the basis of their path of him who utilizes the definite investigator lie exclusively in the long as physicians stuck to erude uncertainties. founded safely and permanently on not unitoria, as to quality of to dranknown action on the human econ uniform active principles, alone and Take on the other side the beauti tity; and no certainties can ever be For pant

DELIRIUM TREMENS

By A. L. Benedict, A.M., M.D.

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parent than real." though its occurrence coincides terms, and states that the condition cians attempt to differentiate these mania a potn, although some physiuses the term as synonymous with nary alcoholic intoxication. Tyson does not mean the delirium of ordities are agreed that delirium tremens present consideration. All authoridition is largely the excuse for its and the difficulty in defining this conthe definition is an important matter tohowed by mania a potu, so that the bauch by a person previously temalcohol. (In the other hand, a derather with the sudden withdrawal tinued action of alcohol on the brain. alcoholism, ascribed to the long-conis "a special manifestation of chronic relation of the illness to the withdrawal of alcohol may be more apperate, however prolonged, is never In the discussion of any disease,

It may be questioned whether a primary debauch might not be profonged sufficiently to result in dehirium tremens. For instance, one of my acquaintances is considered by his intimate friends to have been more or less drunk, continuously for several years, unless through an unintentional oversight, remedied as speedily as possible, on awakening in the morning. But, of course, such, a

se, state is not usually meant by the er word debauch, so that Tyson's state-nent is practically correct.

what are commonly known as tanks, diagnose delirium tremens while the even during the habitual course of tion, may develop during a spree or ought to be included in the definimens, at least in the mild form which produce delirium tremens, but, then, after a primary or isolated debauch true that the cessation of drinking alcohol may not be inverted. It is to which drinkers are particularly mens practically always occurs after patient was profoundly nareotized or would be practically impossible to ordinary sense. At the same time, it who do not get drunk at all in the sonal experience goes, dehrium treneither does the intoxication itself. of any reasonable intercurrent affection, as pneumonia the condition appears after sobriety the alcohol has been withdrawn to intoxication. Thus, delirium tre-So far as my somewhat limited per-Tyson's logic as to the withdrawal of precipitates the attack is forced by an interval, or after a reform by a tank has been established for a distinct some extent and, in many instances in the exhibarated stage of ordinary Sometimes the abstention We may also question whether length, does not

hable, typhoid iever, etc. Sometimes a mental shock or surgical injury is the precipitating factor.

a pretiv clear statement can be made and excessive use of alcohol is necesits withdrawal is the etiologic rector as to the question whether alcohol or and, some hat, according to the use necessary as a precursor, vary though the duration and extent of velop delirium tremens. if the intergeneral nutrition, hygienic surroundwidely. as in debruan tremens, cessively without getting drank, are the tank who drinks steadile and exdrinker with short intermissions, and usually immune. But the periodic not over 30 e.e. of alcohol a day, is moderate, steady drinker, consuming health; on the other hand the very vals between sprees are sufficient to periodic drinker does not usually detions and exposures appropriate to sprees and who suffers the deprivaevery day, and who soes on frequential is the man who drinks more or less promptly develops deliging from the person who most certainly and most delirium tremens at some time. The pretty certainly destined to develop All things considered, it seems that a complete On the one hand, the ording to idiosyncrasy production of delirium restoration to A prolonged

It may also be stated that alcoholmay not be the sole factor in preparing the system for an attack of delirium tremens. Fusel oil, wood alcohol, absinthe and other ingredients of alcoholic beverages very likely co-

operate. So, too, unquestionably, are the semi-starvation, gluttony and malfermentation in the alimentary canal, all of which are likely to occur in drunkards, not to mention other hygicnic faults, such as irregular sleep, exposure to cold, etc., or the various organic diseases to which drunkards are specially liable.

come accustomed to rely. At least drug on which the system has beinstances, solely the withdrawal of a cause is iniquestionably, in many eiting-or let us say precipitatingalways question whether other, more the word solely is correct in the causes of delirium tremens. The ex-On the other hand, an emotional practical sense, though we may ring at the close of a spree, or in the injections or inflammatory intereur necessitated by freezing or injury, an pretty liberal amount. to continue the use of alcohol in where on account of the fear of demidst of continued heavy drinking rent disease, though usually occurtion or other surgical operation shock, frost bites, violence, amputasubtle factors are not also present. himum tremens, the patient is allowed precipitating lactor and may act frequently seems to be the prime So much for the predisposins

precessions product in the commonly and correctly considered as a junctional cerebral crisis, due to some form of toxaemia, not directly exception. While necropsics have recalled many lesions, both in the brain and cord and in the visceral generally, no one of these, nor any

combination, is recognized as essential. Stengel, for instance, ignores the entire subject, in his systematic pathelogy. Neither is there any known metabolic basis of the disease, although it should be borne in mind that pathologic physiology is still in its infance.

to introduce features, for the sake of tory, scientific definition of delirium a crude way that we can speak of as to exclude from the category esmaking a striking clinical picture, so icatures and on the other hand not hand to include all characteristic aicoltol as the cause, it is obviously an etiologic basis since it is only in sentially identical but not strictly care must be taken in framing a tremens. In any such case, great impossible to formulate a satisfaclogic basis and we may almost say of symptomatic definition, on the one With this lack of a definite patho-

low tension.

typic cases. The common conception of delirium tremens presupposes a history of quite chronic alcoholism and we must not let our prejudices as total abstainers, lead us to include as chronic alcoholism, the daily use of a glass of beer, for example. There is usually to be found the further factor in the history, of sudden withdrawal, or else some physical or psychic shock or strain, including the strain of an intercurrent disease like pneumonia.

The typic case, besides delixium and tremor, manifests hallucinations, especially of serpents of some similar reptile, or, at least, of some loath-

s essen some vermin, or something else of a ignores horrible nature, and there is present stematic fear and horror of the object seen in the hallicinations. There may also disease, the hallicinations of sound, solor, in mind touch, taste, etc. Physically, independently of any organic disease, in fectious, inflammatory or degenerate patholicities, that may or may not be present say of ent. a weakness involving both only in muscles and glands and e-petially peak of marked in the heart, there being briously usually a weak and rapid pulse of

ing that, unless there is reformation clearly recognized that there is an technical term, but it should be of extending the literal meaning of a ings, a state of apprehension of danrespectable private practice. Both as delirium tremens and the mild at mild degree. At any rate, whatever essentially identical condition, of personal opinion as to the propriety nations, abrogation of intelligence or ger, bad dreams or slight nocturnal common to observe, following a dein private and hospital practice, it is common disease, at least in ordinary tack must be recognized as a warn be treated on the same general line lirium tremens or not, is a matter of we say that such patients have deother marked symptoms. weakness, insomnia, nervous twitch ing, considerable cardiac and general banch or period of excessive drinkto this definition is a relatively undelirium but without distinct halluci our nomenclature, these cases must Delirium tremens fully conforming Whether

of habits, typic definium treatens may be expected later.

tion, but an illusion due to the convision of snakes is not an hallucinagestion of the torthous and snaketour. That the expanation does not impressions of objects of similar conof these vessels could lead to sensory planation of how even a congestion more expert physiologist the exlike retinal vessels. I will leave to a room, or otherwise humoring the enter, of driving them out of the which the patient saw the snakes pasting paper over holes through of ophioscopia and from the fact that hold is evident from the actual ratity patient's delusior's sometimes causes is that the blood corpuscles, whose more rational objective explanation the hallucination to vanish. A much seen by anyone form the basis of a shadows can actually and easily be visual illusions According to one theory, the

never noted hallucinations of snakes; cases of delirium tremens. I have general, sometimes andividual. With rats, horses, dogs, cats, and human would simply see such animals. The playing cards on the coling. Somehallucmanons beings have been the most frequent scribed his halluculations as of redpatient, himself an drishman demerely as naimals. In one case, the Cariously enough in about fifty beings are usually individuals hous, figors, etc., the patient 1100 seen as individuals, sometimes Domestic animals are somehallmemations have been the patient saw

headed Irishmen, but appearently recognized none as individuals:

a halfueination of one particular kind oscopia is not invariable but. note that the symptom of ophilirium tremens, I exclude the mild that in saving that I have had an excondition. It may be stated here us very far from even the commonly sees snakes, inevitable logic carries that the debrium tremens patient from the serio-comic lay conception delirium tremens, but if we depart of animal is necessary to constitute unless my experience has been enon the contrary relatively rare, symptomatology, it is important to cases without hallucinations and that accepted medical conception of this of others. Simply as a matter of agnosis rested on the joint of inion in practically every instance, the diperience of about 50 cases of deexceptional. It is a curious fact that practice, it would seem that it is not experience in hospital and penal of those who have had much greater tirely exceptional and, from inquiry esting and which is once formulated and lectures, comic journalism, the pia is especially important when we into a statement by authority, peran idea which is striking and inter-Probably no one would insist that original tendency to ophioscopia, we reflect that temperance literature sists in spite of everyday experience. gestion that the alcoholic ought to constantly before the laity, the sugstage, and medical warnings, keep The relative infrequency of ophioscosee snakes. Even if there were no

should expect that auto-suggestion would lead to it in the great majority of instances of delirium tremens, but this is not the case. The very pretty theory about the tortuous blood vessels of the retina not only lacks scientific possibility but is even unsupported by clinical experience.

scientific possibility but is even unsupported by clinical experience.
But, the fact that we must drop the word snakes as a popular synonym for delirium tremens, implies something much more important than the discarding of an individual symptom with it must go all that is implied in that other popular synonym, the horrors.

cluding that due to a hallucination, is founded on false information, inwhether the danger actually exists or hension of a danger, equally logical states of mind, one a logical appre--phobia, apply to two quite different word fear and the Greek ending engenders in many minds. Both of peculiar horror which this animal may poison or constrict him as the vidual is apprehensive that a snake implies, not so much that the indi-For example, the word ophiophobia dread, independently of any danger. the other a morbid aversion and in favor of a brother officer who had heroism he had witnessed, declared asked as to the greatest instance of coward of another. An army officer an imaginary danger may make a little or no fear in one person, while these kinds of fear vary greatly in to his post. Morbid, irrational averdied of fear, in battle, while sticking You will note that our English Actual danger may inspire

auto-suggestion sion is also of many grades. For great majority instance, I dislike to see, and much more than tremens, but more, to touch a corpse, or a toad, more the very pretty yet this aversion can be overcome uous blood yes, when necessary, and produces no not only lacks after-effects further than a feeling of uncleanness, quite in keeping with uncleanness, quite in keeping with the ancient Jewish ritualistic conceptions.

after-effects jurther than a feeling of esting evolutionary explanation. is quite widely diffused among most indigenous snakes than toward a marked toward the small, harmless tirely irrational and is even more fossil one, nor even willingly put my but I would not touch a snake, even a tific pleasure in viewing them in zoos. much so as to interfere with a scienis decidedly unpleasant, but not so tion. Similarly, the sight of a snake uncleanness, quite in keeping with races and is susceptible of an interhand on a picture of a snake or a the ancient Jewish ritualistic conceplarge and really dangerous snake. It life-like model. This aversion is en-

independently of previous idiosyncramight even say that it should occur mens, it ought to be limited to this symptomatology of delirium tregerous animals at a distance or bedogs, run-away horses, etc., not it he ing to the object seen or the circuminspire rational fear or not, accordlatter kind, of morbid aversion. We saw tame cats or dogs or even danwould naturally be afraid if he had obvious that the hallucination should which he has a morbid fear. It is should be limited to some object of tic tendencies or, at least, that the hallucinations of tigers, Yons, savage stances. For instance, a patient hallucinations of any given patient . If fear is an essential part of the

tions which would remove their danclearly stating any such qualificasees dangerous animals but without hind bars. ger, he is not airaid, perhaps because that they are chimeric. their is a subconscious realization Sometimes the patient

ations of rats, without experiencing ever, in which patients had hallucinsons, aside from any possible danger. more or less abhorrent to many pertients who have had hallucinations either physical fear or horror, without either kind of feat were they should have had hallucinations essential part of delirum tremeus: to snakes, etc., and if feat were an idiosyncratically mothid with regard Moreover, I am quite sure that pa without ophiophobia, if he is naturpatient may even have ophioscopia from personal experience, is that a snakes by an aversion. There is a ally not prevented from handlers seeing and handling the snakes of took great pleasure and interest in story of a bibulous scientist who Rats, mice, cats, bugs, etc., are found various rare specimens, but I his hallucinations, among which he cannot vouch for the truth of this one or two instances, how-My impression, not a case in which the patient thought pleased by his hallucinations, as in

of cases of delicium trentens with rescopia, the following classification adopted. medical experience, unless an excluabundantly confirmed by general from actual experience, though it is SIVE Excepting with regard to ophioto fear, may be established symptomatic definition is

sufficient to drive the patient to suisnakes, repulles, insectio etc., causcide or possibly death from terror, degrees from acute mental agony. ing loathing and aversion, of various down to a mild dislike. 1. The halfuemations are of

cal lear of physical danger. horses, etc. with more or less logilions, tigers, savage dogs, run-away The hallucinations are of

of no definite personality. tence, but pays no special attention things that have no present existhem. In other words, he sees but is not particularly affected by gard to rats, dogs and human beings to them. I have noted this with redixerted, interested or distinctly 3. The patient has hallucinations 4. The patient is more or less

tion might be made for hallucinathe hospital and was beside the bed that his pet dog had tracked him to crawling upon him. often imagines that the snakes are tions of hearing, touch, smell, etc. In typic ophiophobia, the patient A somewhat similar classifica-

general conception of delirium tretions at all, so far as can be judged mens, there may be no hallucina by the attendants or recollected by 6. In cases conforming to the

of autointoxication, brought on by the prolonged use of alcohol, preciplirium tremens would be a condition the patient. itated by some physical or psychic shock or strain, including the nega-Thus, the proper definition of de-

and larger or smaller aneurysms, sions, including valvular defects than effect of delirium tremens; and origin and marking cause rather pneumonic foci, the lesions of tydraw a rather sharp line between corded the findings at necropsy in chronously with delirium tremens. which are equally, though not synsecondly, cardiac and vascular lelesions of more or less independent alcoholics and has endeavored to scholasticism that has tediously reinjured in the past by a pseudoto remind this scientific body that metabolic condition which produces be regarded as causes of the general etc., which may with some reason, renal congestion or actual nephritis, thirdly, hepatic sclerosis, chronic be of independent origin; and results of alcoholism, or which may phoid or other infection and similar the cause of temperance has been delirium tremens. It is unnecessary In the viscera generally, we may

usually of animals. toward debrium with hallucinations. a disturbance of mentality tending ness, especially of the heart, and by hol itself, marked by general weaktive one of the withdrawal of alco-

gitis, or some other definite lesions cerebrum, but an actual lesion, at merely a chemic disturbance of the occur without these lesions, or vice be found, but delirium tremens may of the meninges or encephalon may standing alcoholism, pacchymeninor ischaemia. In cases of long least to the extent of a hyperaemia versa. It is plausible that there is not

find coincidental lesions of syphilis, many instances we should expect to which, indeed, in a sociologic sense, ills that human flesh is heir to. In is largely due to alcoholism. find in alcohol the cause for all the

dular failure. In two of my cases. due to hepatic, renal and other glanmens and the nervous symptoms differentiate between delirium treconsidered as uraemic. sicians delirium tremens, it seemed considered by the attending phynervous specialist might have been epileptiform convulsion, and is alive after three years. This recovered, at least in general health, was immediately fatal, the other has albumin and casts in the urine. One contracted livers and there were history, the cases were rather to be to me that, in spite of the alcoholic differences that I could detect. able to distinguish from that of ered it a perfectly typic case of epithe acute attack, and at first considlatter case I saw in the beginning of grand mal, but which presented no lepsy. In many instances, it is difficult to Certainly, there was an which a Both had

never had delirium tremens, but had and had had for several years, wellprevious attack of delirium tremens on the ceiling, had had at least one hallucination was of playing cards the urine at death contained 7 per evidence of renal disturbance, but died from the effects of hepatic father, a confirmed beer drinker, had marked hepatic sclerosis. sclerosis. The son had no urinary Another patient, the one whose

cent. of sugar. Necropsy could not

may be, perhaps, a confusion with hyperthyroidism. tusion obviously being rather with tremens with such disease, the conconfusion or association of delirium iunction. Hence, there may be a cially in the direction of excessive to have thyroid disturbance, espe-Female alcoholics are ratuer apt Similarly, there

cause it tends permanently to disno gross lesions of the liver, kidleaky valves that keeps on beating. the degenerated, dilated, organ with positive or negative, is worse than that stops under a nervous influence. turb tunction. or under the microscope, but bethat we can see with the naked eye cause of the change in structure that the latter is serious, not beserious as an organic lesion, and ance is, for the time being, just as to the fact that a functional disturbnot be out of place to call attention tional failures. In passing, it may terized by precisely analogous tuncneys and other glands, are characlirium tremens in which there are perfectly possible that cases of dethe morbid anatomic sense. and it certainly is not an entity in perversion of physiologic function. in the sense of having a definite delirium tremens is a chitical entity rather in the conception of the In such cases, there may be a dif-It is questionable how far opinion in diagnous, or The normal heart

sists in the accumulation of toxins. We now know that uraemia con-

> eliminate these toxins. and ultimately, tissues, sometimes in the case of disease of the thyroid tical with, uraemia. There are simcoma and convulsions are closely largely of hepatic origin, or at least canuria including the climination of is not infrequently associated with of one, sometimes of another, someof the effect of alcohol upon function delirium tremens is merely a phase glands. It may very well be that entirely concerned in their failure to and that the kidneys are mainly or forms if the liver were competent in the blood. these substances or their precursors to the excessive accumulation of its congeners, and plainly pointing ---intestinal putrefaction and indi--or shall we say, distinguished by times of several glands. So, too, it suprarenals and other ductless ilar analogies or possibly identities related to, perhaps essentially idenwhich would take on less toxic

mens may be an entity, as it has other disturbances of function, in different from those produced by not, are these poisons essentially placed, whether one particular drug delirium tremens always due to the tion, produces in certain cases, a peaside from its direct physiologic a: investigation by those favorably the other hand, it is worth while to commonly been considered, and, on same poisons and, whether it is or is in the system. In other words, is tinct from those otherwise produced culiar form of autointoxication, disconsider carefully and by systematic I do not deny that delirium tre

> provided, concerned in metabolism. cluding organic disease, of the vamous glands, ductless and duct

and casts, indicating renal disturbance: for its adequacy in regard to ing intestinal toxaemia; for albumin factory clinical diagnosis can be which this satisfying but not satisdecided. I wish to urge as a practical methods, to determine the presence physical examination, blood examinhepatic disturbance; and the general sible indications of diabetes and total elimination of waste; for posexamination of the urine for indicatmade, should not prevent a careful lirium tremens and the ease with matter that the expectation of deation and various other diagnostic However these questions may be

patient warrants. fects, so far as the condition of the or absence of other glandular de-

toward the underlying condition. rately and as efficiently as may be utmost importance that our therapeutics should be directed as accuthe other hand. But it is of the toxication, diabetes, hepatic scleroorganic or functional disease of the one hand or uraemia, intestinal incall the case delirium tremens on the mens or not, or whether or not we honored conception of delirium tregeneral nature mentioned, it makes sis, renal functional failure, etc., on whether we adhere to the timevery little practical difference Granted that we find evidence of

MALT LIQUORS IN INFLAMMATORY DISEASES OF THE

By Charles A. Kinch, M.D.

Visiting Dermatologist to the New York City Children's Hospitals and Schools The skin covers the entire body, be an equal number of sebaceous New York glands. The corium is highly was cular. According to Sappey, the papillae number about 150,000,000 and every one has a capillary loop capillary system, as in blushing of blood necessary to fill this great without drawing blood. The amount the corium with the finest needle or two. It is impossible to wound

its sole function. Its total superfiby Krause at 2,380,000. There must or sudoriporous glands is estimated ence with this excretion invariably from the kidneys. Total interferliquid equal to about two-thirds that from the blood in an amount of exudes peccant material derived cies is about a meter and a half. It but covering and protection is not causes death. The number of coiled must make a great draft upon the blood content of the internal organs

Acne is probably the most fre-

would be disastrous. increased blood pressure and accelface. If it were not accompaging by alone, but of all the cutaneous surcration of the heart the results Blushing is not the flush of the face

tation of the dermal capillaries of epidermal cells, and rosacea a dilaglands, psoriasis a hyperplasia of the is a catarrhal inflammation involving acne, psoriasis and rosacea. Eczema affections of the skin are eczena, sluggish condition of the sebaceous both derina and enticle. Acne is a The more common inflammatory

grave disturbance within. We recognize a neurotic, a gouty and a dianomenon, a "danger-signal" of some is usually a symptom, an epiphecovery by itself, and this because it thickened, passing into the chronic tules may form. The skin becomes ever present on the skin, and pusbecomes infected with the bacteria in character and dries in friable yeloff, and there remains a moist raw epidermis and form vesicles beneath dation may loosen portions of the them loses its coherence. The exuare swollen, and the cement between tion is interferred with, and there is corium with exudation and diapedebranes. tion similar to that of nincous meinlowish crusts. The raw surface soon surface. Its exudate is mucilaginous scaling. The prickle cells of the rete Eczema is a catarrhal indammain the horny layer, corninca-Eczema does not tend to re-The epidermis is soon cast There is congestion of the ous liquors. Indeed, we are more upon faulty action of some of the the measles in full bloom in a day or two with an acute outwith his friends, and returned to me and regimen by a mixed-ale party his release from medical espionage last chronic patches. He celebrated heved of an acute eczema and spent case of a hotel waiter whom I reon the whiskey. I well recall the strenuous on the beers and ales than to forbid the use of malt or spirituwho takes or prescribes malt liquors all treatment." But wee to the man remedies and measures are taken to lowered vitality, and that while remembered that it is a disease of enunctory organs, it must ever be as adults, is often directly dependent

It is the practice of dermatologists for either tonic or stimulant effects!

betic eczena. Nervous prostration is tions alone. Bulkley in the Archives attentions to the outward manifestaurine. In other words, we have to often preceded or accompanied by "While eczema in children, as well whole matter in one sentence of Pediatrics, has summarized the treat the patient and not confine our a patient to the physician, who, if he dermatitis of the genitals will drive erythematous eczema and severe pains in adults not infrequently are children and rheumatoid and gouty an attack of eczema. Bronchitis in is wise, will look for sugar in the associated with this complaint. Dry

cases positively harmful. Only in viously of no avail, and in most tems alcoholic preparations are obanemia we may sometimes prescribe the digestive and reproductive sysparatus, or impoverishment of the verted function of the genital apof the bowels, some irritation or permingled with epithelial scales. This blood. For functional disorders of may be indigestion, or constipation corrected some internal disorder. It the plug and gland are thrown out breaking down. They fester, and condition has been aptly called clogged with inspissated sebum sebaceous glands. little avail until we have found and occurs, often with softening and finds these areas, and induration blood stasis. Pus infection easily ing tissues with congestion and "constipation of the oil-glands." like a solinter. Local treatment is of Irritation is set up in the surround-Acne is primarily a disorder of the The ducts are

ilation the tonic idea should pervade promote exerction and assist assim-

Psoriasis

number. Scaly patches result, often cells are enlarged and increased in tivity in the malpighian rete. The Psoriasis shows its principal ac-

vancing stages, and to cause active the trouble in the congestive and ad-

break on hands and face looking like

the whole summer in clearing up the

whose faces are disfigured with this meets in the streets and trolley cars, but one cannot help remarking the eczema. Patients of the latter class large number of young people he more often consult the physician, certainly disputes the honor with quent of all diseases of the skin. It olism of some sort, and that the patients on a strictly vegetarian diet, phates, and indican. He places his amounts of urea, uric acid, phosmin and sugar, but with reference to a quantitative determination of the the daily quantity and density, and ment. The urine should be frethat psoriasis is due to faulty metabappears. effects are, as in eczema, to increase lightest wine or beer, absolutely. Its and interdicts alcohol, even the avoiding meat, eggs, fish and milk, ological ingredients, such as albuquently examined, not only for pathshould always be considered in treatgeneral condition of the patient ley's paper in the Section of Cutantreatment sometimes. But arsenic of mercury will hasten the arsenical non-congestive forms. The addition pear in perfect health. state of pallor, the redness distimony. He quite rightly insists dilute nitric acid, and tartrate of anlected cases, with acetate of potash, eous Medicine, A. M. A., last year, cure many cases of the declining and exists. But after death, and in a mined by points of pressure or inwill remember his success in secific. Those who have heard Bulkand mercury are by no means spescar. It occurs on people who apcongestion of the corium always co which if wounded, bleeds. Some to be found beneath the scales tribution, since their sites are deter jury to the skin. A thin pellicle is of curious forms and capricious dis Psoriasis never leaves a Arsenic Will

NUTRITIVE VALUE OF ALCOHOL

Rosacea

accompanied by a heated feeling and

redness of the face.

These active

cially of the acid type, is very often

flushes the face. Dyspepsia, espe-

A full meal or a glass of wine

are very apt to be accused of tipccous glands break down into pussuperadded and some of the sebain a broad ring. Oily seborrhea is ed, and then the checks and the chin capillaries. The nose is first affectwith permanent dilatation of the ed, give way to a passive congestion hyperemias, too many times repeatmust remember, as George Henry specked with large veins, and very whiskey nose is slightly red or nose is dark red and swollen, and the say, is bright red and shiny, the beer disease. Thus the vinous nose, they consumed from the character of the sumed to tell the variety of liquor of "gin-blossom." Some have asequitation and automobiling. Malt breathing, walking in the open air. sweets and measures to promote the the curtailment of starches and tary treatment of rosacea involves the cup that inebriates." The diein drinking tea as from indulging in get a red nose as easily from excess of the alcohol and the malt extracliquors are injurious both on account intake of oxygen, such as deep Fox succinctly puts it, that "one can Not altogether true. For we Sufferers from this complaint The affection has the name

Syphilis

gumma. These exposed surfaces present in the initial lesion, the inflammations with congestions and urticaria and drug erythemas. Local ter system characterize the roscola a limited area and the cure of the that are always present on the skin. pus, cocci, and other saporphytes are open, of course, to infection by sis," and then result the open chan ed as to produce "coagulation necrocrowded wandering leucocytes are due to disturbance of the vascomogestive order. Local hyperemias are all of the inflammatory or con Charles Lamb's Chinaman, who disease at that point, but by an ex-They terminate in the destruction of cre, rupia, These wandering cells are so crowdpapule, the tubercle and the gumna the same as in scarlatina, measles he wished to roast a sucking pig. burnt his straw dwelling whenever travagance parallel to that of The cutaneous lesions of syphilis and the ulcerating

ago. But not because the luetic insyphilis now than twenty-five years manifestations have disappeared. three years, or until all syphilitic cians urge on them the necessity of advice earlier and because physi-It is because patients seek medical fection has lost any of its virulence persistence in treatment for two or We see fewer cases of malignant

habits. And it is their universal syphilographers that alcoholics do not do well unless they reform their practice to forbid their patients even the milder beverages of wine and It is the common experience of

> gency, or to counteract some exthe physician to combat some emerbidden, excepting when ordered by and malt, should be absolutely forthis matter. Liquors, both vinous coholics is the most important of all. beer during the course of treatment. Lydston says: "The question of al-There should be no compromise in

cian a fair chance to cure him." self, if he desires to give his physithe syphilitic patient must rid himquor is one of the devils of which treme debility." Willard Parker used to say: "Li-

The Harm of Beer

affections of the skin, we do well to sorts of malt liquors in inflammatory combining to place the ban upon all inquire, and ascertain possibly, if there is a reason. Experience and practice thus

with spirits of wine or spirits of to dress stumps after amputation years ago, when it was the custom wounds. Some sixty or seventy It is absorbed by the raw surface of readily absorbed by the mucous membranes of the respiratory tract. Alcohol in the form of vapor is

into the gastric and intestinal veins of alcohol on the sensorium were camphor, the physiological effects applied directly to the seat of disurine and the secretions of the skin the exhalations of the lungs, the changed. It can be recovered from and circulates in the blood unin weak dilutions it passes directly tive and destructive. It hinders inhibits metabolism, both construckidneys and the liver. Add to this ease. Its effects upon the glands of often observed. vital force in direct proportion to the tion of all varieties of organic or es both metabolism and the evoluor anesthetic properties it diminishelimination and delays assimilation. its paralyzing effect upon the vasothe skin are similar to those in the quantity present." or vital energy, but by its narcotic tissue and liberates no natural force tissues of the living body repairs no sociation seven years ago: "The As N. S. Davis said before this Asness is explained. Besides this it motor system and its local harmful-So that this hritating substance is presence of alcohol in the blood and When swallowed

THE NUTRITIVE VALUE OF ALCOHOL*

A Critical Review

By Prof. Dr. Max Kassawitz

knowledge, have appeared on this article, two new productions, to my Since the appearance of my first

dict. Both merit consideration. larger work by Atwater and Benetheme; an essay by Roseman and a Roseman sought to maintain that

^{*} Translated by Kent Oakley Brown

alcohol acts in a way to spare the proteids of the body, against my argument to the contrary. He first attacked the evidence of the researches of Chauveau, then tried to discredit the importance of my theoretical objection to the nutritive value of poisonous substance. Finally

a like result, if one employs them in entirely mistaken. a correct manner. I assert that he is even the figures of Chanveau lead to alcohol; at the highest, two per cent. gested alcohol is again rejected as From this Roseman concludes, that action of alcohol being unfavorable oxidized was the only reason for the his assumption that its rejection unculation; and equally erroneous was says, only through an erroneous calpart, is excreted, unoxidized. He arthat only a very small amount of in-Benedict have just recently shown, to muscular activity. rived at his conclusion, as Roseman yean maintains that alcohol in great cohol has a nutritive value. Chaufurnish undoubted evidence that al-Benedict, and maintained that they those carried on by Atwater and turned to later researches, especially Atwater and

Now Roseman does not wish to call in question the objective results of these experiments. In brief, these results are as follows: A dog accomplished a certain amount of muscular work day after day, on a definite ration of meat and sugar, and yet gained in weight. By replacing a third of the sugar ration by an isodynamic amount of alcohol, he was unable to accomplish as much

that while taking alcohol about onefifth less carbon dioxide is produced duced a reduction of 40 per cent, and reduced the elimination of carbon a dose of morphine that did not the experiments of Boeck and Bauer in a loss of weight. Roser an's view by the injection of cognac similar re the injection of chloral hydrate prodioxide about one third. Rumpi by stupily the dog experimented upon ally" became insufficient and resulted tain the equilibrium and, "eventunarcotic action of the alcohol neces sults were reached. We also know does not accord with the facts. In asserts, was just sufficient to mainsitated the expenditure of "just as man, however, maintains, that the the place of sugar as a food. Roserelation with alcohol, therefore, he form the less amount of work. The much, if not more," energy to perwork, and in addition, lost in weight This proves that alcohol cannot take

animal ingesting it. I cannot cona direct harmful influence upon the only of no value to the animal organclearly proven that alcohol is not ful to protoplasm, its oxidation has ism, but being poisonous and harmdistinct loss in weight is suffered, daily, on an isodynamic ration, it is the accomplishment of less work and the consumption of less energy, a pended at such a time. If in spite of dioxide during narcosis therefore a measure of energy expended. The makes it clear that less energy is exdiminished elimination of carbon cates the amount of oxidation and is The expired carbon dioxide indi-

nenters on metabolism as Caspari and Roseman can overlook the fact that their assumption is utterly incompatable with the observed facts. Neither can I understand how Roseman, in the same work, can maintain that alcohol has a nutritive value and then declare that its action is extraordinarily unfavorable to muscular work. This would be a sufficient reason for classifying it as a poison; for a very small quantity of a real food acts very favorably to muscular activity.

(such as an increased demand for a supply of alcohol acts extraordinaother hand, perfect agreement of albumin-sparing and the life-supportally, and that where experiment and of Chauveau, obtained from observa-(Hueppe); Roseman's statement that sults are possible, only when one shown us, that the best physical reshown to be incontestible. On the hol) have been proven untenable by ing action of alcohol, and the early energy because of the narcosis, the accords with experience; the figures rily unfavorably to muscular work, totally sumption. vation confirms a theoretical astheory with experiment and observeau, which Roseman himself has the results of the researches of Chautoleration of the protoplasm to alcotheoretical assumptions, however, the theory is incorrect. All of his theory differ one must conclude that ter can only be settled experiment-Roseman maintains that the matabstains Now experience has from alcohol

tions extending over several weeks, also agree; all data confirm the theoretical assumption that only such substances are nourishing as can serve in the building up of the protoplasm, but never such as are directly oxidized in the organism, and least of all, poisonous substances that are not only oxidized, but have a harmful action upon the tissue with which they come into contact.

sibility; viz., that the food is approdo not appear to know of a third posinto the kinetic energy of muscular energy from the oxidation of the cular work. They believe that the food into the kinetic energy of musappear to be acquainted with only stances broken up in the body. They vious to their investigation, in the what was already established, preman. They represent as certain only means so confident as those of Rosetheir own experiments are by no Benedict concerning the results of by the oxidation of the decomposi living and working parts and then priated, first, in the structure of the Although it is considered seriously known way, into muscular work. heat and then, perhaps in some unwork or it is transformed first into body, is either converted directly food and of the reserve laid up in the formation of the potential energy of two possible theories for the transthe units of combustion of the subheat is thrown off, as corresponds to that with or without alcohol, as much by many physiologists of today they law of the conversation of energy-The statements of Atwater and

experiments furnish no information candid enough to admit that their which they have no proof. They are poisonous action is harmful to living we have good reasons for believing physiology of nutrition. Therefore built parts, heat is developed. The declare that it is only a theory for source of muscular activity, but they replace fats and carbohydrates as a isodynamic quantity of alcohol can vestigators think it plausible that an help in its reconstruction, protoplasm, unquestionably cannot lar protoplasm. in the reconstruction of the museuof muscular work, as can take a part pended upon for the accomplishment that only such substances can be dethree that harmonizes perfectly with products of these complexlyview is the only one of the important facts of the Alcohol, whose The in-

is replaced by an isodynamic amount portion of the non-nitrogenous food stant or varies but little. Then a that the body weight remains conuse of an indirect method. The subcertain of this point. Such an expericould be nourished upon albumen that we know are nutritious. If one is jurnished by the alcohol and how obliged to admit that they cannot ject of the experiment is permitted to tion, as they must admit, so we make ment is wholly impossible of execuand alcohol alone, we could be more much is supplied by other substances tell how much of the kinetic energy on this point. and the diet is so regulated two investigators are also

measurable muscular work, are conour indirect method of proof. activity and the unmeasured factors stant, during the period of observaof oxidation, except that of sume that all factors in the pre- 's of alcohol. In this method, we prefor a comparison is lost, and with it the alcoholic narcosis and the basis are more or less lowered for many tion. But the measurable muscular hours, beyond the period of work, by

and involuntary muscular contrachibit a different series of voluntary hours; namely, 186 calories for the the whole amount generated in 24 wholly insignificant in contrast to corresponding to this work appears ary bicycle, and the amount of heat urable amount of work on a stationexample: A man performed a measpare can be seen from the following ments, and the work periods comtion and involuntary muscular movewhich are filled up with muscular acamount of muscular energy exwork when he gets his sleep reguthe subjects of experiment in these cline, and in each position will exthe rest period the subject of the excalories for the 24 hours. work on the wheel against 3,746 tion in assimilation and in strength and excretions. Differences in the say that differences in the activity of periment may either stand, sit or re-How these so-called rest periods pended, then, naturally cause a varialarly, and is careful about his diet The subject may accomplish more investigations are not easy to avoid Atwater and Benedict themselves

> quence of the effect or alcohol, he has tractions are least and if in consetions and in consequence a different a greater need of rest or sleep, the In the recumbent position the conseries of decomposition products ducts will be a very important one traction and corresponding to the difference in regard to muscular condoses of chloral hydrate or cognac. the result of 40 per cent, which The reduction perhaps will approach difference in the decomposition prosmaller result of 22 per cent, which It would be certain to approach that Rumpf has observed with moderate the opposite opinion. I maintain trate at any one time. I have just improbable, however, that the effect Atwater and Benedict consider it taking place during natural sleep. Pettenkofer and Voit pointed out as with all positiveness that the effect of this variable error should concenthe taking of the alcohol. of the error must culminate during

> > muscular activity.

der observation two or three days absolute alcohol, narcosis results, and takes each day 2 1-2 ounces of ished and he demands about one-half products of muscular activity is lessened, the oxidation of the alcohol would inas much sugar or lat. The useless while free from alcohol. From such differs, little from that of the period dioxide, but the diminished activity crease the elimination of results one cannot judge of lessens it, so the amount probably transformation of heat, for the If the subject of experiment is undecomposition dimin-

of real food taken. In the expericealed by the decrease in the amount dioxide through narcosis is well concrease in the elimination of earbon and the deficiency was compensated for the energy developed required the reduction in the amount of work amount of food almost accounted for on the bicycle, the diminution in the ment where the work was performed necessity, therefore, to consider alcothe period of rest. There is no but little more food than we given experiments, especially since its acfor by the lessened activity during tion is notoriously unlavorable to hol as a source of energy in these

alcohol would correspond instead on the day of taking alcoubl, the carcan investigators, from the fact that alcohol, too, is inferred by the Ameriamount to which the oxidation of bon dioxide is not increased by that times in favor of, sometimes against, duction in the processes of oxidation the day of taking alcohol. The reonly a small difference results, someof the body are spared, of course reduction, lat and other substances ed here also. during sleep and narcosis is neglecttained by the authors. A compariwholly different from that enterbut this economy has a signification age of \$200. The parents administer other cosily amusementes an averders each night at card playing and son will make the distinction clear to their son, during the evening, a Sappose a thoughtless youth squan-The alleged fat-sparing action of Through this artificial

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countable narcotic action. while taking alcohol reserved fat intime the trick succeeds \$200 is saved a cep and stays at home. Each dose of chloral hydrate, and he falls variations can be understood if rein its absence is assumed by the rewould be larger and at another time surprised, if at one time the saving entirely unintelligible if they are to creases laster than while abstaining. accomplished by a dose of morphine money is saved because the spending but is it on this account isodymunic ferred to the changeable and unacon the individual susceptibility, and or muscular activity. This depends meson and the resulting depression calls on the narcotic action of the with alcohol. erro iat. It is altogether different the sugar has the same function that smaller or altogether absent. Here be understood as due to a nutritive is true. while in other cases just the opposite and Benedict say that in some cases derstanding of the case. Atwater work in the place of albumen or fat. is made impossible and the condition The irregular results favor this unalcohol. chloral has accomplished vital chloral and in that case no analogous when lat is spared would think that morphine of alcohol. Sugar and, even smailest amounts, fut also These differences would be grains of chloral? The and one would be much The same result can be The saving here de-

the supposed albumen sparing action There now remains for discussion

> of alcohol alleged to be undoubtedly to explain their own contradictions. clearly proven. We must allow them with Atwater and Benedict; and yet men-sparing action of alcohol, enous balance, concerning the albusions from the figures of the nitrog than is commonly supposed; that we muscular work, medicine or poison, tion of nitrogen is a much less reliametabolism; that the daily eliminaas a food; that we cannot impute to than can be brought about by alcohol the nitrogenous balance, the investiproven by the experiments of Atburnen-sparing action of alcohol is the uitrogenous balance, that the arthe latter assert, on the ground of starch, sugar or fat. Others agree how dangerous it is to draw conclucannot sharply enough emphasize ble standard for the action of diet alcohol a definite uniform action in mexplicable variations are larger wholly similar conditions; that the elimination of nitrogen even under tremely difficult to obtain a uniform gators themselves say that it is exreliability of condusions drawn from water and Benedict. Concerning the

harms and spares albumen; and they able to the nitrogenous balance as and Benedict with Roseman and loses, by saying that alcohol both ject gains at one time and at another others explain the fact, that the subgains less while drinking. Atwater as abstaining; one loses more or The taking, however, is not so favorlargely on the individual of alcohol we find that the fat sparing depends Turning to the data themselves

dictory statements and their denial spite of a lessened accomplishment of stead of a previous distinct gain, in about an important loss in weight insugar ration by alcohol brought a number of weeks and are incontestments of Chauveau extended through gains the ascendency. ened, little by little the sparing action go on to say that at first the harm-tul influence predominates, but as the through 20 or 30 consecutive days to of little importance. They admit that tended over only a few days and are and Benedict, on the other hand, exwork. The experiments of Atwater standing is untenable. The experiical observation nor pathology has by it, is inadmissible, for neither clinhol and its albumen is not harmed of Atwater and Benedict that after a give satisfactory results. the experiments should be extended period of alcohol taking is lengthown assumption that a toleration is action of alcohol has been confirmed few days the organism tolerates alcoof a disintegrating action of alcohol set up after five days. Such contraments, is not compatible with their in the beginning of many experideclaration that the albumen-sparing come accustomed to alcohol. Their for a belief that the tissues ever beternal organs, furnishes no ground alcohol on the development of the inretarding action of weak solutions of ments concerning the harmful and revealed any such toleration of the do not settle the difficulty. The replacing of a part of the Even the recent experi-This under-The view

sugar in the blood and the reserve of the production of carbon dioxide standing of it, the facts of metabreplaced by alcohol we find the usual elimination of nitrogen. When, how is therefore followed by a decreased blood and the reserve glycogen and creases the demand for carbohyalcohol lessens muscular activity, denitrogen. The narcotic action of glycogen is drawn upon. olism fit in just as naturally as those or those that demand explanation prehend explanations so impossible tracted the gradual improvement of tain the nitrogenous balance. When a diet that is just sufficient to maingen that goes with each reduction of increase in the elimination of nitroever, a portion of carbohydrates is drates and hence for the sugar of the lowed by an increased elimination of restoration of the later is always fol-When the diet is insufficient the themselves; according to our undering amount of sugar the increased without the addition of a correspond least in part, on the increase in the the nitrogenous balance depends, at the period of alcohol taking is provalue of alcohol. Thus, 2. ated in increased amount. This, as cient and nitrogen is again elminthe narcotic, makes the diet insuffiactivity, due to the disappearance of Should the alcohol be again omitted of the diminished muscular activity: reserve fat which takes place because present known, including the results we see, does not indicate a nutritive It is not necessary for us to com-

NEURITIS AND ELECTRICITY

cinally, in simple acute

process

substance that is porsonous and inin- role of a food. of the American investigators, favor the theoretical supposition that a

take, under no circumstances, the ical to the protoplasm, can under-

NEURITIS AND ITS TREATMENT BY ELECTRICITY

By F. D. Granger, M.D., Boston, Mass.

gives a very clear outline of the most land Electro-Therapeutic Association the March meeting of the New Engeffective modern measures of treat-This very suggestive paper read at Our readers will readily un-

without degeneration and with or without pain. According to this tion of a nerve or nerves with or they belong therapeutically, under be classified pathologically where commonly considered neuralgias, can the head of neuritis. broad definition certain conditions By neuritis I mean an inflammasure, though Starr says there may be only certain points painful on presnumbness, tingling, and burning. course of nerve accompanied by a tender sensitiveness over the entire

changes are present in the substance pressure though at others it is made pain that is sometimes relieved by pain, with intervals of quiescence, gia the chief symptom is pain, sudconditions seems to be that in neuralcommon distinction between the two be, and probably is, a neuritis. The of the nerve itself, and hence it may and the admission is made that ample, sciatica, are called neuralgias. the nearer we approach the border books themselves hopelessly confused tween the two, we find the text When we seek to differentiate be-Certain conditions, as, for exsharp shooting, paroxysmal

derstand its importance by the fact that fully 80 fer cent. of all drink ment is one of great importance. The of neuritis and the question of treatand drug neurotics have some forms Editor. worse by it. Ordinarily there are

Over the course of the nerve and its atrophy of the musculature. The diminished or absent. The reflexes along that side are reaction of degeneration is present. response to faradism is lost, and the ling, etc., are present. There is pain. Motion is painful. Various branches, parasthesias, such as numbness, ting-In neuritis the pain is constant. pressure always causes

the pathological condition. tic results are the only guides as to cases they blend so that the therapeumarked difference, but in the milder Between these extremes there is a

den and sharp enough to destroy the such cases the attack has been sudthere may be no pain whatever. In In some severe cases of neuritis

> being carried to the cord. sensory fibers of the nerve, and hence cut off all chance of pain sensations

been no pain there could not have the physician thought, as there had on a vastly different basis, because, treated, in one case for three years, true condition which yet had been tion of degeneration proclaimed the limination of motion, and the reacweakness and weight of the part, the of the muscles, the utter sense of undoubted neuritis, where the atrophy been a neuritis. I have repeatedly seen cases of

will depend, to a great extent, our with which we hit upon the etiology and varied, and upon the exactness uniform success. The cause for neuritis are many

fair per cent, of the cases a routine matic diathesis another, hence in a common exciting agents, and a rheutreatment will achieve results. Exposure to cold is one of the most

or to the pressure of a foreign body, edge of a chair or stool. Traumatic such as the sciatica induced by undue hermae, hemorrhoids, improperly fitor of scar tissues, disease of the bone, mon, whether due to direct violence, and mechanical causes are also compressure due to sitting on the hard typewriters and piano players, or habits, such as the neuritis seen in tumors, aneurisms, displaced uterus. Next in frequency are occupation

during convalescence. While mediacute stage, and guarded movements cure absolute rest of the part in the In general, the treatment is to se-

proper electrical treatment. I should strychnia in at least one-thirtieth cause increased pain. this rule: Avoid all treatments that no means of small importance, the toxic substance. And lastly, but by if possible, further exposure to the procure free elimination and prevent remove that cause; and if a toxemia cury; if a mechanical cause exists if syphilis, potassium iodide and mermalaria, quinine or Fowler's solution; consider as the basis of all treatment basis, administer anti-rheumatics; if be given. If there is a rheumatic grain doses three times a day should

apy, thermotherapy, galvanism, fara same applies to the high frequency dism, and the X-ray. current, static electricity, photother-If vibration gives relief use it. The

amperes is used for at least ten region, a current of from 2 to 8 millidirect current, (galvanic) is best emensues or tinnitus causes discomfort til numbness or tingling of the lips to be used alternately every hour untwo-hundredths of a grain are given phate two grains, and aconitia one minutes. being fixed over the upper cervical negative pad, of generous dimensions placed over the painful nerve and the ployed. The positive pole heing Rarely more than two treatments are Supra-orbital neuritis. Tablets of quinine sul Here the

edly cases have defied all kinds of ditions in the entire category. Repeatthe most obstinate and painful con-Tic Douloureux. This is one of

treatments, including resection of the nerve by the surgeon. That in electricity we have means of combating even the most obstinate processes, the following case will show.

once a week during September. month, twice a week in August, and hat. I began treatments in July, givgulped down all the liquids he could ing them every day during that would take half an hour to put on his existed on a liquid diet. Often he between pains, and for five years had for three years, except as the tears ing two pains every five minutes. operation had to be stopped. When serian ganglion, but the patient's contempted for the removal of the Gasnot more than two months' relief enand sections of nerve removed. Still ously. Was sent South without benehad done it. He ate, or rather Had not washed that side of his face I saw him in July, 1903, he was havdition became so critical that the sued. A fourth operation was atinternally, externally, and subcutane-Everything medicinal has been tried douloureux. Has been under the care last fifteen years has suffered with tic Mr. B, age forty; single. For the Was operated upon three times, best physicians in Boston.

After the sixth treatment he was very comfortable, and during September he could chew solid food, blow his nose, and snoke a cigar without causing pain. The treatment consisted of a large pad covering nearly all that side of the face. This pad was connected to the positive pole. The negative pad was placed over the

pletely cleared up in seven weeks. of much less intensity, which comeleven months followed by a return complete freedom from pain for likelihood of burning. There was an X-ray treatment, I decrease the ing the high frequency current after vertebrae. I feel certain that by usment being applied over the face, a tube in which the bones in the hand frequency of 15 minutes more, treatvacuum tube connected with a high followed by a treatment with the distance of eight inches. This was lowed by an exposure to the X-ray of 20 milliamperes was allowed to upper cervical regions, and a current lower cervical and entire thoracic had just lost their black color at a flow for 12 minutes. This was folfor 10 minutes, using a medium tube,

Then there was another remission for over a year and again a slight return, which yielded in less than a month's time, and up to date complete relief.

In case of long standing pain, whether it be due to sciatica or tic, I have found the X-ray, in order to produce absorption of any old exudate or scar tissue pressing on the nerve, of extreme efficacy.

Another treatment, one highly recommended by Snow, is, to apply a piece of block metal over the affected side; the metal is connected to the positive side of the static machine, the negative being grounded, the patient on the insulated platform, the poles of the machine together. Gradually draw the poles apart until the pain is all that the patient can stand,

was allowed to The static brush on This was folgiven good results. This was folgiven good results. This static tube, common disease of the X-ray and the common disease of the X-ray static tube.

the etiology and the proper medical edge of a stool or chair, osteo-arthrion the nerve due to sitting on the due to badly fitting shoes, pressure trical methods to choose from. treatment, we have a variety of elecor ovarian tumor. Having decided uterus, malignant disease; or uterine hemorrhoids, malposition of the hip-joint disease, loaded rectum, organic disease of the spinal cord tis of the spine, diabetes millitus, rheumatism, flat-foot, undue pressure malaria, alcoholism, gout, syphilis, is not caused by such conditions as that it is a simple sciatica, and that it combined treatments. First, be sure sciatica yields quickly and surely to treatment, but which if it is a simple duration under ordinary forms of common disease which is of long Sciatica. This is another very

and deep pressure between the transnerve fibers making up the scratic nerves, in order to inhibit the various bra, and over the exits of the sacral verse processes of the lumbar verteball attachment with a heavy stroke skin we apply vibration, first using the back up, arms hanging down the side, exposed; then recumbent on the table, machine. The patient should remove at times sparks from the static use the galvanism and vibration, and that the back and buttocks can be or loosen all tight fitting clothing, so head turned to one side, over the bare For a routine treatment I prefer to This generally requires one

and treat thus for twenty minutes. to two minutes at each point. Next The static brush discharge has also we locate the sciatic notch, which is given good results.

the huttories a little to the inside of

This is another very the buttocks a little to the inside of ase which is of long cles, and apply as great a stroke and which if it is a simple quickly and surely to trnents. First, be sure tiple sciatica, and that it by such conditions as folism, gout, syphilis, fitting shoes, pressure the title to sitting on the a large sponge electrode, connected the inside to the inside of the gluteal mussures as the patient can as the patient can as the patient can cless and that it brush over the lumbar region, and the by such conditions as glutei completes the vibratory part at-foot, undue pressure a large sponge electrode, connected the inside of the gluteal mussures and apply as great a stroke and as heavy a pressure as the patient can complete the inhibition of the nerve.

About five median line of the gluteal mussures are stroke and as heavy a pressure as the patient can complete the inhibition of the nerve. About five minutes more with the brush over the lumbar region, and the artificial field in the patient can guide to sufficient can guide to stroke and as heavy a pressure as the patient can complete the inhibition of the nerve. About five minutes to complete the inhibition of the nerve. The patient can guide to sufficient the patient can guide the patient can guide to sufficient the patient can guide the patient can guide to sufficient the patient can guide to sufficient the patient can guide the patient can guide the patient can guide to sufficient the patient can guide to sufficient the patient can guide to sufficient the patient can guide to sufficient

Galvanism is then used by placing a large sponge electrode, connected with the positive pole, over the lumbo-sacral region, while another large sponge electrode negatively connected is bound either over the popliteal space or over the foot and ankle, and a current of from 10 to 40 milliamperes is allowed to flow for fifteen minutes.

leg into any position in which he can sparking, have the patient move the together). After several minutes' sparks hurt less than several close down the leg to the popliteal space, notch, over the course of the nerve inches can be applied over the lumbar such a speed that sparks of 4 to 6 nected to the negative side of the and over the calf of the leg (single and sacral regions, into the sciatic positive pole. The machine is run at is connected via the earth with the grounded, the sliding rods are widely static machine. The positive is separated, and the spark ball electrode the insulated platform, which is conspark. Here the patient stands on Sometimes we employ the static

cause pain, and apply the sparks to that painful region and into the sciatic notch as well. When there is no longer pain in any position the treatment is over. Ordinarily five to eight treatments only are needed to effect a cure.

In chronic cases, as mentioned under tic, the X-ray is of great value; only be sure to cover the genitals thoroughly. The wave current, the high frequency and especially some of the high candle-power lights, as well as the blue light, have given good results. In sciatica we have the one exception to the rule,—not to cause pain in treatments.

Crural neuritis. Here I use galvanism, high candle light, and libration. The last is employed to inhibit the crural nerve at its point of exit, which is a point midway between the anterior superior spine of the lilium and the crest of the tubes.

transverse processes of the approsponge is gently rubbed over the I to 5 milliamperes, the positive lower cervical and upper thoracic arm in a sling. Apply galvanism, the tried for inhibition. Massage, if it priate vertebrae may be cautiously course of the nerve for ten to fifteen region, while, with a current of from negative pad being placed over the the arm. Make the patient carry the the cause. the principle is the same. Try to find median, musculo-spiral or what not, brachial plexus. Whether it be ulnar, connecting the nerves of the arm, the Another important group is that Insist on absolute rest for Vibration between the

cases, at the start, treatments every found excellent results after using use, is gradually increased. In most there has been no pain caused by its high tension faradism. This, if and heavy, I use for a few minutes applied to the lower cervical and the other day are needed. the affected nerve. After the pain for fifteen minutes, followed by an power lamp. The light first being also be employed. Lately I have does not cause increased pain, may has ceased and the arm feels weak intense exposure over the course of entire thoracic regions of the spine galvanism, to treat with a high candle-

There is one other condition which is frequently met with, and in which the pain is generally due to a true neutritis, and that is coccygodynia. Recent cases yield quite readily to the following treatment: Give a careful vibratory treatment to the part, then connect a large pad to the positive pole of the wall plate and apply it over the sacral region of the spine, and allow a current of 10 to 20 milliamperes to flow for ten minutes. To make the relief complete, treat for ten minutes with the high candle-power light.

In various forms of paralyses following a severe neuritis or the ingestion of certain toxic substances, I have found the interrupted galvanic current of great advantage. I apply the current over the moter points of the muscles, and as soon as power to respond to faradism has been regained using that as well. I am now using

on one case, the high candle-power light and think that I am going to shorten the time of disability by its use.

Do not rule out a neuritis because of lack of pain. Do not, except in rare instances, cause pain in treatments. Stop any treatment which has caused increased pain. Keep the parts as still as possible. Remember that with the galvanic current the positive pole should be used where we wish sedation, and the negative for stimulation. The X-ray has absorptive powers which make it valuable in

medicinal treatments as well. course of the nerve itself, but secure high frequency and the high candletion it is not better to go over the sparks, will give the desired relief spray, brush discharge, and often long standing cases. In using vibrajustice to him we should use proper is looking for quick results, and in We should remember that the patient from pain. These failing, the static power lights give immediate relief sory fibers in the spine. treatment over the exits of the seninhibition by appropriate inhibitory Often the

ALCOHOL AND CHILDREN

By William L. Stowell, M.D.

Problem," 1907. century. Dukes, 1905, writing "on experience taught the men of that ogy would not be accepted now, but stomachs, especially of those of chilstroys the natural ferment of all all sorts of spirituous liquors, de-Infants," 1734, we read: "Wine of any wine whatever. In "Martyn on as an article of diet for boys in cause to sanction the use of alcohol in schools," says: "I never yet found the impropriety of the use of alcohol day as well as now, the twentieth all sorts taken too freely, as well as Galen, 200 A. D., forbade children should recall its action in health. hol in the diseases of childhood we Before discussing the use of alco-Eighteenth century pathol-See Kellynack in "Drink Judson and Git-

tings, 1902, in "Infant Feeding," say: "Alcohol is not needed normally. Used judiciously it has decided value in furthering digestion in weak, sickly and anemic children."

Fischer, 1907, emphasizes the importance of abstaining from habitual feeding of alcoholic drinks in any form to the young and growing child. He states, however, that 50 per cent of the tenement children have wine or beer with their parents Metabolism is very active in

Metabolism is very active in young animals. Kittens, calves and children all eat relatively large quantities, but by activity use up energy marvelously, and grow at the same time. Growth is accomplished chiefly by proteid food, albumen of milk, eggs, or possible meat. If a child takes an excess of proteid it

will be burned or oxydized along with the fats and carbohydrates to supply the boundless energy of youth. It is not so with the adult who takes an excess of proteid; his metabolism is less perfect, and the excess remains in the system, producing uremic, lithemic, or gouty symptoms.

During childhood the nervous system developes very rapidly, especially its most important part, the brain. This part of the anatomy is very susceptible to stimulation, mental, physiological or medicinal, hence we should give great care to the choice of remedies for the young. It is evident from a review of the literature that alcohol is generally conceded to be injurious to the healthy youth. Its food values are not to be compared with its injurious tendencies.

We now come to pediatrics proper. A child with pneumonia or typhoid fever takes little food, suffers from a toxemia and high temperature. The fever, of course, will cause loss of tissue, so that the protied growth is soon drawn upon as fats are consumed.

We think of alcohol because of two very definite features. In small quantities it is oxydized in the system and so will protect or spare proteid destruction, which is so rapid in high bodily temperature. Late in typhoid or at the crisis of pneumonia, the heart may fail in force. We know that alcohol will temporarily increase the heart's contraction and give a fuller pulse. The effect upon the nervous system must

be remembered, for alcohol in all forms seems to have a predilection for the brain. The question of alcoholic stimulation, or other drugs, is largely a personal one, therefore I have consulted the newest books on pediatrics to ascertain the prevailing habit in prescribing.

Cotton, 1906, gives alcohol only two lines, saying, in pneumonia "it may be given in zi doses in milk eveny two or four hours." Riviere, 1906, writes: "Strychnia is the best stimulant. Alcohol is preferred by some, and is especially useful for heart weakness of syncopal type."

Abt says of typhoid treatment, alcohol should not be administered in a routine manner; 20 or 30 drops, if needed, may be given to a child every two or three hours.

In pneumonia, Fischer, 1907, relies upon strychnia and whiskey, or both. Koplik, 1906, says: "At most, a limited amount of wine or whiskey is administered. Whiskey should not be given as a routine remedy." Strychnia and caffeine are of great value. Rotch, 1906, writes: "Stimulants, if used with judgment, are valuable. As a rule, the average practitioner gives much larger doses than are needed."

Very many authors make no mention of alcoholics in either pneumonia or typhoid, so that the necessity for its use is universally felt.

Whatever the college teaching, the fact is, every new house staff gives whiskey freely to nearly all patients. My first direction is to omit it entirely, except in extreme cases and for short periods.

In private practice I rarely order alcohol as a stimulant. There are upon the market two or three preparations of proteids and carbohydrates put up in 15 to 20 per cent. If alcohol. That known as liquid peptonoids I use in most cases of severe illness. By its use nutrition is maintained and excessive stimulation avoided. Some years ago I resported, Medical Record, Vol. 38, p.p.

485-488) one hundred cases of pneumonia in young tenement children treated without alcohol. The mortality was 17.9 per cent. During five years just ended my pneumonias of all ages in tenement homes numbered 187, of whom 21 died, making a mortality of 11.23 per cent. As the children were under ten years of age the difference of mortality is more apparent than real.

ALCOHOL AS A THERAPEUTIC AGENT IN DISEASES OF THE STOMACH *

J. H. Salisbury, M.D., Chicago.

and should be used sparingly, if at all, by those of sedentary habits. inclined to its abuse, to neurasthenics, den to the young, to those hereditarily viduals. Alcohol should be forbidpermissible amount varies with inditime even in small quantities. yet do harm when taken for a long the system since it is quite possible calorimetric experiments showing question cannot be answered by erage without ultimate injury. This much alcohol may be taken as a bevwith it altogether. The first question that a substance may be oxidized and how much alcohol can be oxidized in for the practitioner to decide is how although few are inclined to dispense treatment of digestive disorders, recommend alcohol highly in the Gastrologists generally do not The

*Abstract read before the American Medical Society for the Study of Alcohol and Narcotics, June 5, 1907.

> motor insufficiency or a catarrhal tinued use leading to pronounced creasing the acid, but diminishing the state of the stomach. injurious effect is enhanced by a lesions of the mucous membrane. Its pepsin of the gastric juice and by constomach is essentially pathologic, inand whiskey that is commonly drunk. compared with the amount of brandy in which these beverages are used, when we consider the larger quantity beer and wine is also of some moment effect. It is probably that the minute drinks is ethyl alcohol, although the amount of fusel oil and furfural in furfural add very slightly to its toxic compounds classed as fusel oil and The action of alcohol on the The active toxic agent of alcoholic

Alcoholic drinks may stimulate the secretion of gastric juice (a) by arousing appetite, (b) by acting

used as an anaesthetic and to equalize much to be preferred. It may be tones, and the extractives of meat are directly on the mucous membrane. objections for such purposes is open to many the circulation, but its continued use For the latter mode of action pep-

- exclusion of alcohol from the diet of normal men nor of those afflicted with disease of the stomach, No harm can come from the
- glasses (5 ounces) of 10 per cent. can be allowed as a regular beverage per cent. of alcohol. wine or a pint of beer containing 3 equivalent to from two to three not exceed 15 grams a day, an amount is undetermined, but probably does without producing recognizable injury The amount of alcohol which
- why this amount should be decreased strable by ordinary experiments. sible that the continuous use of small action on the stomach, but it is posinjurious effects that are not demonamounts for a long time may produce on account of a special injurious There are no evident reasons
- moderate quantities it produces no of digestion that need be taken into retardation in the chemical process absorption of other substances. In readily absorbed and favors the favors the motility of the stomach, is not the pepsin of the gastric juice, that alcohol increases the acidity, but Experimental evidence shows Its long continued use in

hydria, acid gastritis, mucous catarrh large quantities produces hyperchlor and finally destruction of the secret

which the stomach is unduly irritable ethyl alcohol. Branch or whiskey on account of constituents other than motor insufficiency on account of the in hyperacidity and other states in ing acid and varain may be injurious up a gastric catarrh. Wines containespecially irritating and readily sets containing an excess of fusel oil is less objectionable in stomach disease Beer is objectionable in dilatation and

of the possibility of the formation of much more marked. diminished and its irritating action as power to stimulate secretion is much a habit. In catarrhal conditions its tul propriety in neuroses on account been a causative factor. It is doubtcatarrhal conditions in which it has shown by the production of mucus is gastric uleer and hyperacidity and in

as a stimulant to the appetite. The may be applied under due restrictions of the appetite by alcoholic drinks sulted in such cases. The arousing mal stimulus of the food. use tends to lessen the response of the flavoring materials. Their continued taste of the individual should be congastric mucous membrane to the nordepends largely on their accessory Alcohol and alcoholic drinks

the relief of distress in the stomach is rational, and its effectiveness is

ing structures of the stomach.

gas and yeast which it contains. Alcoholic drinks are more or

o. Alcohol is contraindicated in

8. The employment of alcohol for

for dyspepsia is highly objectionable. of many of the proprietary remedies resource only. The alcoholic content should be employed as a temporary confirmed by experience, but it 9. The use of alcohol to counter-

under various circumstances. it affects the splanchnic circulation ances is rational but requires further investigation, as we do not know how in consequence of vasomotor disturbact the irregular distribution of blood

INEBRIETY AS A PHYSICAL DISEASE

By H. W. Mann, M. B., Edin.,

Resident Medical Officer, Larkfield, Nairn, N.

daily press and monthly magazine. more abundantly. To this may in question of Inebricty and the Inebriand specifies so lavishly offered in the that medical men as a rule look scepuser, Jay and political, have thriven cussed at the present time than this question more pressing or more distically and askance on the "Cures" some measure be attributed the fact which the charlatan and the adverate: and certainly there is no one on method by injections of atropine. and more particularly with regard to cerns us of the medical profession, this question of alcoholism, as it con-Perhaps next to tubercle there is no its treatment by the hypodermic I venture to ask your attention to been carried on by such men as Sir Victor Horsley, Protessor Woodhead, Mr. Mc.\dam Eccles, Sir

pioneer in this, and his work has tising quack, who too often exploited ease, in many cases capable of cure, The late Dr. Norman Kerr was the they have rescued it from the advergarding inebriety as a physical disthe inebriate to his own purposes. tific study and attention, and by reof note have given this matter scien-Happily of late years medical men

prominent ton, to mention but a few of the more James Crichton-Browne, Dr. Clouspsychological medicine the

apparent equilibrium. excitement, its depression, and its nating insanity. treatment of this disease is based is akin to the folie circulaire or altervarieties of the insane diathesis, and Inebriety is one of the phases or and on this recognition the modern in its essence rather than psychic, festations," as a condition cerebral a physical disease with mental manibeen recognition of the insanities "as great forward step in our times has It has its term of

eases. satiety. In his book on Mental Dis It is not thirst, and while the "crave" pathology, and its treatment. It is lable, and periodic desire for alcoholis present the appetite knows no essentially an irresistible, uncontrol-Inebriety has its etiology, its Clouston places

"States of Defective Inhibition," and while conscious of its gravity as a social evil, clearly regards it as a neurosis of defective inhibition, as a lack of that control which is the highest function of the cortical centres.

Briefly considered, the following have a place in the causation of this condition: Traumatism, concussion, shock, injuries to the head. Epilepsy is frequently associated with inchiety, and, like it, is a periodic nerve storn. Perhaps no association is more commonly observed than tuberculous habit, and it is remarkable in how large a number of cases a family history of tubercle is found to occur.

Among what may be termed "Moral" causes there are the non-berless social influences, adversity, prosperity, education imperiect and education to excess, ambition, worry, and all those undefinable states comprehended in the word "Society." Though in such it is sometimes difficult to discriminate between cause and effect. Lastly, heredity has a prominent place in the etiology of alcoholism, and in this case undoubtedly the children do suffer for the sins of their parents.

The pathology of inebriety has received much attention of late years, and if any one fact in pathology is established, it is this—that alcohol, even in physiological quantities, is a direct nerve poison, affecting the cortical layers in the cerebrum, the cerebellum and the peripheral nerve endings. In a recent lecture Sir Victor Horsley has pointed out how

even by the ingestion of small quantities of alcohol the brain functions are affected, how the reaction time is lengthened, both simple and complex, as estimated by Kraepelin's method. And he has demonstrated that in continued absorption the nerve cell degenerates, the granules become obscured, the nucleus and nucleolus gradually disappear, and the active protoplasm is replaced by pigmentation, until finally the cell is inert and functionless.

In the peripheral nerve endings the same toxic process goes on and so in the confirmed alcoholic there are the pains of neuritis, affecting his peripheral nerves, while the trenulous hands and ataxic shuffling gait indicate cerebellar mischief, and the confused misty intellect corresponds to and is co-extensive with the destruction of the cortical layers in the grey matter of the cerebrum.

Ford Robertson, in his work on Cerebral Pathology, describes this destructive process graphically when he compares each successive bout of the dipsonaniae as resembling a hurricane of wind sweeping through a forest, which, when it has passed, shows to the casual onlooker no change, though the trained eye can see the broken stems, the torn branches, and the disarranged undergrowth. But, unlike the forest, to the alcoholic there is no new growth; no proliferated cells replace those lost.

With such a pathology of destruction it may well seem futile to talk of treatment, but with the 600 mil-

> lion of nerve cells which has been calculated to be the average endowment of the average brain there may be always the possibility of calling up from this vast deep of subconscious celebration some reserve and reinforcement of those altered and destroyed.

And so the treatment of inebriety, always granted the abolition of alcohol, amounts to a re-education. It must be borne in mind clearly that no treatment will help an inebriate unless he is willing to help himself. He cannot be cured against his will. If one can but control or abolish the insane impulse for alcohol then the case resolves itself into a dependence on time and the ordinary processes of assimilation and metabolism. What is destroyed cannot be replaced, but what remains may be utilized.

lowing notes of cases will illustrate taken, but I think it is to Dr. Mcdifference to alcohol. I may be misoughly pushed it does confer an insity of the appetite, and when thorof great value in relieving the intennot. The treatment by hypodermic Bride of Norwood that the professtrychnine has, in my hands, proved injection of atropine combined with ago, but with what success I know this method of treatment. The folsion owes the first clear record of serum was put forward some years bichloride of gold. An antiethylic the purpose mentioned—notably the Various drugs have been used for

A. R., admitted July 24th, a case

lapse, no desire for alcohol, weight Atropine gr. 1-100; atropine stopped. creased to gr. 1-80. August 23rd. 21-2 lbs. August 7th. Atropine incheerful and pleasant, weight 9st. 9st. 13 lbs. Is on parole. Much better, complexion clearer, alcohol crave diminished. July 31st. October 2nd, Continues well, no re-28th. Slept well, mental condition given at 9 a, m., 3 p. m., with a cintinuous. He was given a calomel improved, quiet, calm, and clear; between each dose of atropine. July chona mixture sandwiched midway 1-100, with strychnine purge, and put upon atropine gr appetite for alcohol intense and conconfusion of time, place, and person; neuritis very badly, great mental tellar reflex absent on both sides gait, tremulous, twitchy higgers, pative nerve and tissue changes, ataxic of chronic alcoholism with degenera plantar greatly increased, has had 1-100

strychnine given regularly and to the October 3rd. Improvement maincontrolled; has had no relapse. out and go to and tro practically unhol largely gone, is allowed to cycle tinues to improve, appetite for alcoother case. September 11th. Conreform. Put upon atropine and tained and continuous atropine and strychnine with cinchona as in the weakness, laments it and promises and deeper debauch. Confesses his square up, and then have a deeper tary drinking; for a time he would M, drinking for weeks, mainly soli-Another case: August 29th, A

full physiological limit; alcohol appetite disappeared entirely.

ated by atropine is a thirst for ordiup the appetite, and given in the value. It cleans the tongue braces form and of cinnant, is of great curchon, co., with spirits of chloreand is not a thirst for intoxicants nary liquids, and is allayed by them. dryness and consequent thust cregence in some hobby, especially when of vegetable lood, and less of deshi the desire which in the morning is at carly morning it assists in allaying The use of cinchona given as thick examples of the influence of atropine best of artificial foods, easily retained or sickness, it is in an experience the weeks, and when there is as there ofto be of great value in the early that can take the form of any outdoor croise in the open air, and induliment there is the cheting, abundance its keenest. Beyond this drug treatat the risk of wearying you, similar ten is, gastric trouble with yourting nary praetitioner for trial, and I quite in the power of any medical cases is well worth inquiry and myeswhich is the single real symptom of in this combination on the "crave and easily assimilated. I could give. ecupation. I have found sammegen cases ready to the hands of the ordiman to pursue it in his own practice. un dit has the advantage that it is empirical, and the progress of such There are, unfortunately, too many It is a remarkable fact that the Milk in quantity and fish, ex-It is no secret treatment. Its use is not wholly

would urge upon the members of this branch to give this method their interested study, and to look upon this condition not so much as a serious social cvil, but as a physical disease depending on physical causes, and capable of responding to physical treatment.

mg upon him. drug can do the, but that many man's character and disposition. repair damaged tissue, or to alter a of permanence. It is not possible to benefit his patient and those dependder and a wiser man, he is steadily nearly killed himself. Today, a sadsquandered his fortune, ruined his crave was painfully intense. He had dozen years, and the permanency of without relapse for more than a been traced, and known to keep well that cases under this method have case-books in a well-known retre nent, but I know from a study of the unit of saving that the cure is permahave too short an experience to per thoroughly satisfied. I personally cases of mebriety are curable I am home, and in a fit of depression I had one case, which came to me in the completeness of the treatment. the result is largely determined by method ii regularly carried out general practitioner can by this cisely in such cases that the ordinary knowledge to us all, and it is prething of his lost life, and is happy in and soberly trying to regain some April last, in whom the agony of the his home. Such cases are common Behind this lies the great question

It may be necessary for the State wor the community to segregate the ereceived inchriate. It may even be desirable the to adopt Dr. Rentoul's heroic method and sterilize him in the interests of the race, but neither segregation nor sterilization will cure him. But if the impulse, the crave, can be removed, if the inhibition can be made more complete, if the control wor to the world and take part in its treated.

work. It may seem absurd and incredible to lift against this Goliath the tiny hypodermic syringe, the fresh air and the simple life, but when one reflects how the lancet has controlled the horror of small pox, and the serum treatment has modified diphtheria, then one may hope that medicine has not yet said the last word regarding Inebriety as a physical disease, controllable by physical treatment.

THE PSYCHIC EFFECTS OF INEBRIETY

By J. Madison Taylor, M.D., Philadelphia, Pa

ance, where the subject has gradudivide themselves, first, into those which are due to the use of alcoholic discussion and thoughtful formulahol which does not seem to subvert almost constantly an amount of alcouse. Our responsibility too often is drinking or the occasional and apselves into the effects of steady and these, again, subdivide themwhich follow actual drunkenness, beverages, direct or indirect. These cessive use of alcohol. It comes disturbances resulting from the extion than the management of psychic medical men are more worthy of disastrous effects upon the mind the consciousness, and yet produces ally acquired the habit of taking class of cases of even greater importmade to end here. There is another parently uncontrollable excessive of most of us to meet conditions within the almost daily experience Few subjects in the experience of

overcome a tendency which, in its long-continued persuasive efforts to tain point, any assistance, and at Oftentimes almost insuperable obstaafter a time, to let such persons alone temptation is for the medical adviser, effects, is most disastrons. The necessity for eternal vigilance and think most of us fail to realize the which is always problematical. I stances of this last have come under the habit. Several illustrative inbeen thoroughly emanapated from monstrated after the individual has to persist, because there is no apparat last uses every device to shake off cles are placed in his way; the indimy observation, and the handling of ent reward in sight commensurate clination on the part of the physician thing to overcome of all is the disincontrol. Finally, the most difficult vidual does not invite beyond a certimes resents advice emphatically, and which can only be realized and de-

regard the degree of intellectuality its use, in order that certain bits of suits, she found that her brilliance phia, and finally alcohol. Sometimes ette smoking, next the use of morwas possible. She gradually acquired whom I was able to accomplish what irregularly many years ago, and for came under my professional care quests in my experience was that of elicited. One of the most absorbing apparent than real. We are hable to tional mental powers. saying that the most unconquerable much so that it becomes a proverbial times remarkable, of intelligence; so these persons, a fair degree, somebe jound, in even the most difficult of ance to which he is subjected in the with the labor, trouble, and annoypower that the temptation to continue which brought much fame. Attempts considerable work was accomplished doses of morphia. During this period was enhanced by the use of small woman engaged in intellectual purperiod, but generally all were comthese were used almost alone for a the habit of exceeding in, first, eigaran extremely brilliant woman who whom our solicitude is not so warmly merely in contrast to others toward which is evidently being destroyed the brilliancy exhibited is rather necessarily true, because oftentimes drunkards are individuals of excepto himself. Almost always there will discharge of conscientions obligations work should be finished, was practiat withdrawal of the morphia resulted such a diminution of creative During the early part of this when she was a young This is not

are capable of being produced by the effects of morphia upon the sexes the same, and they are good. Anand intellectual vigor remain about erate degree of morphia for over thus done'tis unreal, fanciful, interior use of opium in some form, habitually are occasional instances where the impair the powers of resistance. It rejoiced at the absence of the thrala morphia habitue who, when the upon women. I have never yet seen many respects different from that conclusion, and that is the varying evidence to enable me to reach a final other thought arises, of which I have other patient, a lady, maintained good fifteen years, and his general health think it is accurate), has used a modii I can take his statement (and I mal uninfluenced mental processes to that which is the result of the nor be objected that the quality of work used, makes for a valuable degree of mental stimulus of morphia. There cally insuperable. One fact was clearcause of the relief which this affords strain or overwhelming disasters, beuse of the drug under conditions of that the opium taker will return to the is quite true, and almost an axiom ences at work to complicate this and dom, unless there were other influhabit was entirely overcome, was not The effect of morphia upon men is in never vet seen sufficient statistical health after over twenty years. ceptibility to the effects of morphia Individuals vary widely in their susintellectual effort. Of course, it can that extraordinary mental products ly demonstrated to me by this case. I have in mind a case of a man who, An-

conversation, unless a certain amount use, especially of the morphia, bedoses of morphia. This appetite can dealing with some exceptionally diffiof this was used. It became imposwas curious. Physically, everything over three months, and the result all these three poisons, for a period of rather too varied a character to hibited great promise, which was of of early middle life, who early exan intimate friend of mine, a lawyer tinued use of alcohol. One is that of maintain. Thave seen many instruccies often becomes impossible to vigilance, which from various exigenand by the exercise of the utmost only be overcome by forceful means found evidence of the use of small cult neuroses. I have occasionally mously better; practically good. In physical health is undoubtedly enorthe use of this and continues it. Her clined to believe that she returned to trol her at that time, and I am insible for me, or any one else, to conbility to shine intellectually, even in cause there was recognized an inadesire on her part to return to the arose a deliberate and overmastering tude was disheartening, because there was satisfactory, but the mental attian entire freedom was obtained from period, while under my control, when has not been restored. There was a faculty seemed practically killed and up to the use of alcohol the creative this factor. When she gave herself cited, of the lady, hinges largely upon of alcohol, and the first instance ject of this paper is rather the effects to depressing influences. The subtive instances of the effects of con-

extraordinary change in mentality ably injured by the use of the alcohol of his favorite beverages. I employed thing without obvious ill effects, that interesting point in this case was the moderation as to do little harm. The enabled to make a great impression himself and myself. Finally, I was tion became distinctly worse; his years elapsed and his physical condimodelling his methods. Two or three number of ways assisted him in rein his instance a number of rationa more than a prejudice against the use he was convinced my advice was little duced so little effect, and so many of asserted that the amount and the recognizing the influence, I begged For this he sought some relief, and mental depression set in, which page nerable. Little by little, however, tive and general health seemed invulhim to waste a great deal of his time with great musical abilities, an has not used it since, except in such thereupon he promptly gave it up and upon his imagination by telling him nounced, but known to no one but mental depressión was more promeasures, such as regulating his daily his intimates did much the same him to abjure the use of alcohol. He in mere social drivellings. His digesextraordinary charm of conversawarrant the expectation of much that his liver would become irretrievlife, the use of exercises, and in a manner of his use of this poison proressed to a most distressing degree. These qualities naturally tempted tion and a most brilliant wit. He was unfortunately endowed real progress in his chosen career

interesting personal qualities, he rapmediocre lawyer of ornamental and almost instantly, a wider range of and difficult problems. He acquired. found himself eager to undertake new an extended trip, in which he was gradually obbed away, emphasized by volved a certain amount of what he about his amusements, which inidly developed into a man of affairs his hands, and from being merely a which had rusted became efficient in tical truths. Old items of knowledge observation, a broader grasp of pracearth were revealed. He suddenly on himself, a new heaven and a new able to get, as it were, a perspective ing off during the activities of the day. called work, and the same old round day, he promptly ceased and went excuse himself from work any one his own words, could conscientiously professionally. Whenever he to use certain amount of work each day and ielt perfectly content to have done a sional work, the time was when he the effect that in the matter of profesrealized the truth. However, at the personal friend, could scarcely have effects. erent amount to produce any serious that the alcohol taken was in suffiwould the casual observer have telt exceptional vigor, and at no time remembered that this was a man of astonish me, but himself. It must be As the final effects of the alcohol dreadful depression recurred, wear occurred, and in the morning the be satisfied with a moderate advance his own conclusions. present time it is interesting to note which amplified in a way not only to Even a physician, not his These are to

only too common, who can go for extent as to disable him for a day or tion for himself. Like too many men another. His was the particular type He lost one valuable position after until these lapses were uncontrollable of alcohol subverted his resistance however, the habit grew, the poison of his profession, he used a certain of a race of brilliant journalists and our strongest daily papers. He was the foreign correspondent of one of occurs to me full of significance. Fitmany lives are thus warped or fail of right to interfere. no suffering; and second, that the whose jurisdiction they often fall. The eye of the family physician, into ought to come under the searching feetly legitimate convivialities. upon their progress by indulgence in own work in their own way with fair stane that many men, doing their ing our recognition and care. It is two, but this was condoned. Finally, would occasionally exceed to such an amount of alcohol habitually, and had made a most admirable reputateen years ago I knew, in London, their full fruition. medical man does not feel he has the relief, because they are conscious of is, first, the fact that they seldom seek chief difficulty in dealing with such is merely the type of case which what is ordinarily considered perthemselves and placing a barrier measure of success, are yet stultilying almost an unwarranted liberty to asis that there are many such demandpleasure in his progress and results and usefulness, taking the utmost My comment on this typical instance Another instance In consequence, This

professional relationships I got hold condition and would lose his position. dream, to find himself in a deplorable overcome without knowing why, and evil episodes. The chief lever by double my efforts and tide over many sodes more and more. My chief tion I was able to control these epiof him, and partly by earnest persuation to touch a drop, and suddenly be weeks at a time without the inclinaeral times the drink-fever seized him come straight to me, wherever he the beginning of a period of complete as much as a drop of alcohol, always him that whenever he should touch tion. gained through full hypnotic suggeswhich I swayed his judgment was vague, and I was able then to repower lay through the vigilance of sion and partly by hypnotic sugges-More through friendship than by days, and then would wake as from a compelled, totally against his conand in an hour or two he would be esting reading; suffice to say that sevof these experiences would be intermight be situated. The story of some psychic subversion, that he should premonitory. his wife, who learned to recognize the he became insane for a week or ten stave off these evil spells his intellecreporter, but as we would be able to dropped to the position of a mere would then take charge. He had opportune hours and places, and I scious will, to come to me at most in-In that state I demanded of symptoms, extremely

> which his capacities warranted. -I do position in the journalistic world ence him, as I did, when the necessity arises. In this man's case there has employers, and I feel confident that were never even recognized by his not consider him even yet safe, nor level and he was able to regain the tual abilities rose to their norma cerebral cells for a sufficient length of tinued efforts of the poison upon the accomplished by omitting the contarian, how great a matter can be the practical physician or humanidetail, but it is always a revelation to are too well known to be related in tinued alcoholism upon cerebration plished. The effects of long-con our combined efforts have accomwould double the safeguards which of purpose. A higher responsibility brilliancy, has now more definiteness view. His work, never lacking in tion of the proper intellectual point of been more than ordinarily a restorahas some one who can, and will, influhe is practically safe so long as he fought through some periods which he will be so; meanwhile we have does he. The time may come when

In a rather extensive experience in the use of suggestion and hypnotism in alcoholics this rule has become established. After the apparently most difficult cases are satisfactorily relieved, in those which seem easiest ultimate failure seems inevitable.

time.

EDITORIAL

in many respects one of

the various cities in Europe. There ang alcohol previously known, of committees of public health in sons were legislators and members with the different governments in 100 diplomats or persons connected medical schools, together with over cialists, many of them professors in thirty physicians and medical speinteresting and extremely sugges-The personnel of the Congress was and along rational scientific lines. lem from a higher point of view, ment to study the alcoholic probthat indicated a great new movething in the spirit of the Congress different sessions and showed their forty-one delegates to represent of the civilized world, who sent sponse from nineteen governments importance met with a hearty rein giving this congress a national energy of the Swedish government few years ago. The spirit and could hardly have been expected a this in itself is an advance that by the countries of the world, and the latter were distinguished teach-100 university teachers. Some of hearty interest. There was someleast a thousand more attended the were registered as members, and at recognition of the alcoholic problem year. It was the first international important meetings of the There were present about Fifteen hundred delegates Many of these per-There were over

Congress at Stockholm.—This was The International Anti-Alcoholic were over 500 delegates from vathe of the teachings of science regardtions. The Good Templars of Eng rious societies, principally temperland and Europe sent very large whole, very striking confirmations ance, hygienic and social organizaother on "Alcohol in Treatment of Diet," by Prof. Max Kassowitz; ansented. One was on "Alcohol and ferent sections which the Congress hol, in home and society, suggesting were devoted to the ravages of alcomen and women. Several theologithe professions. Several prominent numbers of delegates, which includ the Congress. "Alcohol as a Nutrient" was marked monia." An afternoon devoted to Children," and "Alcohol in Pneuvery exhaustive papers were pre-In the scientific section a number of to classify and arrange the papers was divided, an attempt was made their correction. - In the three-difall sorts of remedies and means for Hence, a large number of papers the popular side most prominence. from such a gathering would give the character of the proceedings the world. As might be expected, pists from almost every country in teachers, clergymen and philanthrothe delegates were made up of leading men. The remainder of cal seminaries and universities sent were represented by delegates, both ed many most eminent men from al by the most scientific discussions of Anti-alcoholic Societies in Europe They were, as

a very popular society, from the ant gathering was that of the "Innumbers present. Another society use of Alcohol," which seemed to be ternational Union against the Mismade an address. Another importthe World, from Boston, Mass. venile Order of Good Templars in meeting, in which Miss Jessie Forof Good Templars" held a special of Alcohol." This was crowded by Methods of Teaching the Dangers every afternoon on "The Best don gave a special course of lectures others. Professor Edwards of Lonusual was the "Abstinent Union of Physisythe, the Superintendent of the Juwas addressed by Dr. Brantwaite, bers held a special meeting, which marks. The English-speaking memcontributed very interesting reerally based on facts and statistics. teachers. The "International Order MacNicholl of New York, and briate Asylums in England, Dr. the Government Inspector of Ine-Davis, representing the W. C. T. U., worth of Boston; also Mrs. E. S. "Alcohol and Its Effects in the general meeting in which Dr. Mac-United States" was a subject of a a few of the many subjects that cerning the Races." These are only "Degeneration from Alcohol Consented a very strong paper on the accuracy. Dr. Legrain of Paris preing topics, presented with scientific hol and Crime," were very interestthe Sexual Questions," and "Alco-Nicholl of New York and Dr. Ellsthe general meeting, "Alcohol and scientific accuracy, and genpresented with more than

rooms were used for the exhibition the Honorary President. ures that gave an original freshness with an array of statistics and figmany of these papers would have Connaught, brother of the King, is in London in 1909, and the Duke of great international questions of civithe subject had taken rank with the cursion, and it was very evident that holm, a carriage ride and boat exgarden party, and the city of Stockernment treated the Congress to a scientific lines. indicating a decided advance along to facts and statistical studies, thus ments and appeals were subordinate to them. The oft-repeated argusubjects, as a rule, were presented appeared very elementary, but the subject. To the American student Schools," and an unusual interest fluence of Alcohol on Children in Many papers were read on the "Instudy on the alcoholic question. land as secretary, for the purpose of with Professor Hercord of Switzerpounded and discussed. An Intersion was the Gottenburg System lization. The next Congress will be was created in that phase of the center for the promotion of exact national Bureau was organized, in which various theories were procians," which held a great meeting gathering literature and forming a hol, was presented. Many smaller the relief of the injuries from alcoagainst it as a practical measure for Perhaps the most exciting discussocieties had international meetings, A great mass of evidence for and which occupied the whole forenoon The Swedish Gov-

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timid, hesitating way. eminent man discussed the quesattracted little attention. A very ease of inebriety and its curability than at present realized. The disand more vital interest to civilization is without doubt of greater magnitude tance and magnitude. The American showing a recognition of its imporof Continental Europe published beer drinking countries of Europe. It est which it excited in the wine and coholic problem, and the intense intersignificance and importance of the alwas profoundly impressed with the large space to the transactions eral of the London papers gave copies of papers, books and pamgrams of the effects of alcohol on third room exhibited charts and diaing into prominence in Europe. A full accounts of this Congress. Sev-Nearly all the great leading papers phlets written on this subject. Several other rooms were devoted to studies, for use in the lecture room. sentations of statistics and other eases. These were graphic reprecommunities, individuals and dissade against alcohol, which is comited copies of the Bill Posters' Cruof the world. Another room exhibthe anti-alcoholic periodic literature gave one a startling impression of printed in Continental Europe, and lish language. The others were than 200 were published in the Engthe temperance cause. Of these less startling was that in which 1100 holic problem. One of the most of matters pertaining to the alcopapers were on file, all devoted to of accountability, but in a .\nother

out and concentrate the lines of ings. The next Congress will bring question of facts and their meanand speculative stage, and is now a nized as the leading and only scienment, which is advanced work and hospitals for its study and treatvance of all other nations. The stand and apply correct means for study which are necessary to underhas passed beyond the theoretical est sense. The alcoholic problem and is now national in the broadgress which has been held in tific journal in the world devoted to file at this Congress and were recogwork in this country. Copies of The more systematized than similar English Government has organized the "Maladies of the Soul." The this evil. ject had assumed a new importance Europe, it was evident that the sub-International Anti-alcoholic Conject. Although this was the eleventh the discussion of this special sub-Journal of Inebriety were placed on Americans in this field are far in adly unknown, except to English and Its Curability" was evidently large-"Physical Disease of Inchriety and author talked for nearly an hour on American students. The studies of

sponsibility begins. Acts that are ing lines, where sanity is lost and irremen are brought in to mark out dividany doubt is suggested, then medical they were absolute facts. Whenever drug takers, and are repeated as if room concerning the acts of spirit and words are often heard in the court-Sane and Responsible. - These

and to find evidence of responsibilacts of any kind. In many cases or intoxication is an extenuation for and are as clear concerning their dutional activities and thought and ory, but on the contrary, shows that taker are regarded as temporary conditions, and not unfrequently mentality, is one of the most startclared sane and responsible, and the are made to draw boundary lines. this is so doubtful that great efforts alcoholism is no defence for crime, thought to confirm the theory that statements of the drinker and drug responsibility of the person. The taken without altering the santy and sumed that spirits and drugs may be persons. In a disputed case it is asdence of complete sanity in such conduct, and that there is no eviduce great abnormalties of funcderanges but damages the cell and all use of spirits and drugs not only study brings no support to this theescaping responsibility. cute an insane act, with the view of might use spirits and drugs to exesanity or responsibility in such perworld there is no such questions of ling of delusions. In the business state has in no way impaired his assumption that this continued toxic tinued use of spirits and drugs is de-A man with a history of long conity and sane recognition of the acts. ties and relations to others is taker that they are in no way worse, tissues to such an extent as to pro-It is assumed that a same mind planned with some distinct motive. abnormal in the spirit and drug The spirit and drug takers Modern

drugs committed a murder and was sult of experience and losses and that an ordinary gateman at a railcity the railroad company, finding sponsibility and sanity. In the same study to determine the degree of rethe subject of exhaustive expert court decided that he was sane and perts, it was decided that he was treasurer of a large industrial comsibility. In one it was pure theory not of theories. A man who for practically assumed. This is the reinstability and doubtful sanity is tion of sanity and responsibility incorporations there is no quesand conduct are regarded with susfit. If he is retained his thought are promptly turned out from re-These are common examples seen knew exactly what he was doing practical test could be made. refused to be in a position where a he worked doubted his insanity and property. The company for which sane and competent to dispose of his long, tedious examination by exhis death, was disputed, and after a which he made a short time before known. A few months after, a will of his spirit and drug taking was pany was discharged when the fact recognition of his condition. A and in the other it was a practical tion of his partial sanity or responirresponsible. There was no quesdrinker, discharged him at once as road crossing was a continuous years had drank spirits and taken He is dischargen as incompetent picion. On railroads and industrial sponsible positions as mentally un-A state of mental uncertainty

of the penalty or conditions which follow from the act, that will be just rational treatment and adjustment The only question should be one of sity must come from deranged, disin spirit and drug takers of necesicity of the case. All disputed acts the history and the degree of chrondegrees of insanity may vary wide called same and responsible. length of time, can be accurately cal common sense of business men. ly, but this will be determined by no user of spirits and drugs for any Science has repeatedly shown that lawyers and physicians and practigence of opinions between judges. riously reflect on the wide diverand irresponsible brains.

cians make a specialty of morphia conditions. Several of these physition probably is owing to some local too large a figure. This wide variaone considers that 80 per cent is not other one, 20 per cent., and another Another thinks 25 per cent.; anof all drug takers are physicians. One physician reports to per cent. than any other professional class. ing alcohol and drug takers. The more addicted to morphia disease reached was that physicians were the reports of a number of physithe above subject. It was based on cians who make a business of treat-County Medical Society a paper on recently read before the Fulton -Dr. Stockard of Atlanta, Georgia. The Doctor as a Drug Inebriate. consensus of opinion that practically physicians who rethe danger of recurrence is so great tion is possible in every case, but extend over a long time. cumstances must be very exact and last degree. The question is often effects are so satisfactory that the Yes, but the conditions and the cirnently recover? The answer is. tracted the addiction ever permaasked. Do physicians who have con brain workers, it is seductive to the cellent remedy when used discretetive at last. Opium is a most excome to all physicians, give a pecuof the medical profession, particuand this repetition becomes imperaphysician is tempted to repeat them. liar susceptibility to narcotics. The

in all business circles, and most severy extreme case, particularly by the syringe;" to which we add the his own prescribing, except in a stances, take a dose of morphine of cian should, under any circumcaution that the strains and drains the use of this drug, and no physiters. The doctor concludes his pathis fact is a very strong reflection events the number is very large, and dents concerning the dangers from emphatic in cautioning medical stumedical colleges cannot be too "The lecturers on therapeutics in pers with these two statements: training which the poor victim suion the want of intelligence and this most serious disease. At all of the profession become addicted to be difficult to determine how many bers received are greater. It would treatment, and, of course, the num-

generative effects of alcohol have a large share of attention in the med-Journal. It is very evident that the of the country. Many of these pawaiting for them is becoming larger tributors may rest assured that their more frequent publication. Our consuch dimensions as to suggest a tributed to The Journal has reached ical meetings of the year. The dealcoholic problem is going to occupy ferent phases of the alcoholic probduring the month of October on difand more imperative every day. est moment and that the audience productions will appear at the earlilem, in the various medical societies Twenty different papers were read pers have been contributed to The The pressure of new matter con-

ly, but for neurotics and active

larly the sudden emergencies which

drug takers, and without intention, protest that every physician should Stockard's paper is a most timely to say that a number of his students used without danger. It is needless mirable stimulant, which could be of cocaine and morphine was an adwhen worn out and tired a mixture injunced in the lecture room that normal. One such professor anweak-minded and those who are not never occurs except among the that drug taking is very rare and convey the impresion to their pupils and perhaps unconsciously they teachers in medical colleges who are change, nerve rest and quietness, cover must give long months of became drug takers in after life. Dr. It is a sad fact that there are some

come into increasing. thors as new. the facts are reported by many attwith the more minute studies, and prominence

form and place, and will undoubtedly this study. in 1909 has already began to take ure to note that the coming Congress bring many new facts. It is a pleasappeared in foreign journals, but to able to give an exhaustive report. dresses related to matters that are copy as it was read. The various adwith any satisfaction unless from the complex and could not be reported that many of the papers read were be a great event in the progress of the American reader they do not Some of these papers have already When they appear in full we shall be very familiar to our readers and of the Anti-alcoholic Congress at hence could not have much interest. Stockholm, Sweden, for the reason We have omitted a detailed report

important contributions to this subeditorial care of Dr. T. D. Crothers and other means. Many of the most briety and its curability by medical century has been the disease of inehas urged for over a quarter of a organs of the great subject of alcooldest but one of the most scientific of Hartford, Conn., is not only the briety, published at Boston under the compliment. The Journal of Inewith the following very pleasant holism. The central facts which it Dr. Beurmond concludes an article In the La Petti Journal of Paris,

ject have appeared in its pages and we commend this Journal as the great pioneer to all scientific men.

alcoholic question has been projected and resolution was presented and try in 1808, in a little town near Saratennial of the organization of the to be held at Saratoga Springs, New City meeting in June. Inasmuch as passed by our society at the Atlantic years it was a power in that neighsician, Dr. Wim. Clark, and for many ized and conducted by a country phythe fact that this society was organhrst temperance society in this coun-York, in the latter part of June, An international congress on the It is to commemorate the cen-There is much significance in The following preamble

it is proposed to hold in June in 1908. a national congress of all the tempertions having for their purpose the delegates from all similar organizaance organizations of this country. special committee to act with that of centennial of the first temperance being in part to commemorate the study of the alcoholic problem, also together with representatives and in this congress, and appoint a be it resolved. That this society join society in this country. Therefore, for the meeting plan of organization and program other committees in assisting in the

Also Resolved. That the officers of this society shall constitute such a committee, and have power to appoint a special committee to represent them on this occasion.

BOOK REVIEWS

graphic presentations of facts and Morals, are exceedingly clear and Emotions, On Senses, and On the On the Intellect, On the Will, On the first eight chapters including the inof inebriety which has appeared. The vanced contribution to the subjects Scott Publishing Co. Contemporary lishers, New York, 1907, Price, \$1.50. (Yale). Chas. Scribners' Sons, Pub-By Dr. George B. Cutton, Ph.D. Effects of Alcohol on the Memory. Science Series and is the most ad-This work is one of the Walter The Psychology of Alcoholism .-Physiology and the

conclusions of many writers.

author exhibits rare judicial clearthor has evidently read very wideing of the main facts and is never tions to the subject. The auness in the condensed logical groupor literal side issues. Medico-legally. diverted to unimportant statements ly and has been able to seize the chapters are excellent contribustated, and the two remaining chapter on Insanity is admirably many writings in the inture. The ground work and starting point for disputed cases. They furnish the ficance and should be studied in all Senses, are new views of great signithe chapter on Morals and the

> with such minuteness before. of the facts which have escaped ataccurate, psychological presentation inebriety, to procure a copy of this subject. We urge every physician, of spirits on the higher mental opertention and have never been studied work. It is by far the best and most who is interested in the disease of among the great text books on the ations and as such will rank making book describing the effects previous work. This is an epocha more satisfactory way than in any cleared up by the author's studies in basis and the disputed points are established on a broader scientific ments. The disease of mebriety is lags by obscurity and doubtful state-Hence, the interest of the book never main points of interest and keep them foremost in all the discussions.

Convertion deserve a more extended chapter on Hypnotism and Other finer operations of the brain. The himself noted the changes which he largely from other authorities, has the changes in cells and nerves which chapter on Physiology there are Cures as well as that of Religious describes and made studies of the close observer, and while compiling The author has evidently been a very explanation of the farther studies, form an admirable foundation and many very interesting illustrations of real excellency of the book. In the so insignificant compared with the the little lapses and faults which are critical reader is reluctant to mention many facts stated so clearly that the In a work of this kind there are so

> study, and will suggest to every practical man many things unmoticed before. We shall publish extracts from this book and urge all our readers to procure a copy from the publisher and make new studies from the author's point of view.

The Drink Problem in its Medicosociological Aspects.—By Fourteen Medical Authorities. Edited by N. Kelynack, M.D., M.R.C.P., Honorary Secretary of the Society for the Study of Inebricity. If ith Two Diagrams. New York: E. P. Duthen & Co., 1907.

among the great books of the year subject it will take high rank and be attention. As a contribution to the ready has attracted a great deal of most original contributions. Alcolaymen it is most conclusive and aladdressed to both medical men and tone and free from dogmatic conclucoholic by Dr. Shaw are among the ogy of Alcoholism by Prof. Woodbriefy. The Evolution of the Alcoof the anthors in a trank, open way. sions, although giving the opinions great deal more than they describe rest of Alcoholism by the editor, are introduction and chapter on the Arholism and mental disease and the holic by Dr. Campbell. The Patholsents a very satisfactory grouping of As an argument for total abstinence Alloof the chapters are scientific ru very valuable studies that suggest a head, and The Psychology of the Althe facts relating to alcohol and mefourteen different medical men, pre-This admirable volume, written by

CBOOK REVIEW

men who agree on the general repac spon-thilly are treated with fanished about the disease from alcoholism of the danger of alcohol and the showing the opinions of years the every American interested in the althe use of spirits is presented very Medico-legally the questions of revolume as a distinct contribution colodic problem should possess this dent of this subject. The publisher determination as a direct result from which must be recognize hin the evoume in type and arrangement, and has presented a very attractive vol haldren is clear and decisive, and the hation of the subject. should be in the hands of every stuneed of instruction to school valuable commbution and This book has little to say The book as a whole is a exhaustive medical

Insanity and Allied Neuroses.— I Practical and Clinical Manual. By C. H. Sucage, M.D., Supt. Bethem Kayal Hospital, England. Near and allowayd edition. M. T. Kenner Co., Publishers, Chicago, Ill., Price, \$2.75.

This is the second edition of one of the most practical and useful of all the manuals on nervous diseases. It is 'reely illustrated and gives in 26 chapters a very lucid, clear account of insanity, and the various diseases of the brain and nervous system classified under this head. The particular value of this book comes from the fact that the reader can in a very few moments' reading, obtain a clear idea of the subject, often much more idea of the subject, often much more

and treatment are given with admirciples of symptomology, pathology a larger volume. The e neral prinauthor gives some prominence to alconsultation room. It will meet a that are constantly coming up in the are extremely graphic and clear. No able clearness, and on many subjects satisfactory than that obtained from collol and drug taking as causes of ognize in every-day practice. The want which general practitioners recally useful for the various questions single volume published is so generfew books that should be in the librathat the last edition will be sold more field of study: Already this book has sents the most advanced views in this ry of every medical man. largely than the former, as one of the had a very large sale and we predict which shows that the book repredisease and as disease in themselves,

Hygiene of Nerves and Mind in Health and Disease.—By August Forct, M.D., formerly Professor of Psychiatry in the University of Zurich. Authorized translation from the Second German Edition, by Herbert Austhe Afkins, Ph.D., Professor in Western Reserve University. G. P. Putnam's Sons, New York and London. The Knickerbocker Press, 1907.

This work covers a new field of study that is intensely practical. The author is both an enthusiast and very graphic writer. He has condensed in over 300 pages a great variety of facts that have not been mentioned before. Part third-of

is one of Putman's Science Series given a most substantial contribudent of mental diseases, and has and his offspring." The author is a possible for himself, his fellow man diseases and abnormalities as far as ern his life in such a way as to avoid book is shown in the words of the much study. The purpose of the the Hygiene of the Mental Life action of poisons on the hygiene of clear studies of inheritance and the particularly valuable to students of attractive form. This book will be and is presented in good type and tion to the subject which we comvery distinguished writer and stuingly interesting and worthy of and the Nervous System is exceedstudy that will be taken up in the many fields for both practice and also very interesting and point out spirit and drug taking by the very mend to our readers. This volume author: "To enable an intelligent the brain and its functional activilayman with a fair education to gov-Studies of school hygiene are

Alcohol and the Human Body—By Sir Victor Horsley, F.R.C.S., London, Hon. M. D. Halle, etc., M. D. Stirge, M.D. London, etc. London, New York: MacMillan & Co. 1967.

Price, St. 50, postpaid.

Since the works of Dt. Richardson were published no books have appeared with more accuracy of statement and clear, graphic representation than this. However nuch the reader may differ, the facts are placed in the clearest possible man-

eral scope of treatment. The next licity and plearness. The first chap-ter, "Alcohel as a Drug," is most ingly clear and accurate presentasuggestive in the breadth and gen lar System," and "The Action of Altions of the facts of the present next one on "Cell Life," are exceedner and Allustrated with unusual faof Alcohol on the Tissues and Meon "Alcohol as a Food," should be cohol on the Skin and the Temperagroups in a very graphic way a yous System" is well illustrated, and "The Effects of Alcohol on the Nerhor and Alcohol Beverages," and the chapter on the "Chemistry of Alcoa judicial presentation of a mass of sionate appeal or the argument of a ate presentation. This is not a pasand the bitterest critic cannot deny text-book on the alcoholic problem is the latest and most authoritative physical action of alcohol so thor the clearest possible terms, about tabolism of the body are stated in neys and the Blood, and the Effects tion of Alcohol on the Liver, Kid-The remaining chapters of the Acture of the Body," and the chapter of Alcohol on the Intellectual found in other works. "The Effects great variety of facts that are not general facts, about which there car partizan who believes that alcohol oughly and fully as this. The book other book has grouped the direct which there can be no mistake. No considered the last word of science, Processes;" on the "Neuro Muscu be no question or doubt. has no virtue whatever, but simply the facts and their calm, dispassion

NOTES AND COMMENT

Dr. Pettey's Eastern Retreat .--

zette. October, 1901, and subsequent the profession. See Therapeutic Gaery detail of which was published to course of treatment was devised, evwork, he says, enabled him to form addictions. I wo years spent in that thorough study of the narcotic drug of the methods of treatment then in to the profession by Dr. Pettey, his knowledge to guide him, a rational ogy or these addictions. With that actinite conclusions as to the patholvogue. This led him to undertake a he was unable to secure relief by any habitues in his own clientele for whom says that some years ago he had drug ern branch of his work, Dr. Pettey announcing the opening of this eastaddictions by the methods introduced for the treatment of alcohol and drug-3303 Pacific Avenue, Atlantic City. and they have opened a Retreat at F. Kidgway of Atlantic City, N. J. has associated himself with Dr. Wm. Dr. Geo. E. Pettey of Memphis, Tenn.,

clined to acknowledge the advantages the relief to which they are entitled. Since others do not seem to be andoes not give this class of patients judgment that method of treatment "wedded to their idol," the gradual sufferers, would avail themselves of ject, but thus far, few of them have the benefits of his study of this subtreatment of this unfortunate class of putable institutions, engaged in the He says it was his hope that re-The majority seem to be still method. In Dr. Pettey's

by opening the Atlantic City Retreat. their patients the benefits of it, he is undertaking to meet the demand for such a treatment in the eastern states Dr. Wm. F. Ridgway, who has as-

cient guarantee that the new instituwell-established reputation, is a suffinew institution, is a graduate of the highest ethical lines. tion will be conducted according to of his city. This, with Dr. Pettey's Jefferson Medical College and holds sumed the medical directorship of the the most scientific principles and upon positions of honor in the profession

City, N. J., or Dr. Geo. E. Pettey. treat, 3303 Pacific Avenue, Atlantic should address The Dr. Pettey Re-Memphis, Tenn. Those wishing further information,

relief from the suffering. met with a peremptory demand for tolerable), the medical attendant is demand active steps looking to its repain of such urgent character as to of the body frequently give rise to first time the has called his physician Inflamed states of the various organs because his suffering has become inlief. Upon seeing the patient for the Antiphlogistine Versus Opium.-

of Dr. Pettey's method and to give exact seat of an inflammation, for inpractice, and for several reasons. The torm of opium, is not a judicious of using morphine, or some other lowed the lesser one. The free habit in many eases, a greater cvil has foldernue needle indiscriminately, and some physicians resort to the hypoly overrides their better judgment, With a willinguess, which frequent-

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growing army of habitues. bility of adding a recruit to the ever cate, and thus a clear diagnosis intertion to the use of opium is the posststance, might become difficult to lofered with. But the greater objec-

if it be given otherwise. so likely to acquire this information knows what he is getting, but he is not needle is used, the patient at once in some form by mouth. If the the use of opium, it should be given sideration, his best judgment advises to the needle. If, after careful condeliberate well before resort is had the apparent need for opium he should Every time there occurs to a doctor

mations. Antiphlogistine will easily it, will began eating or using Antiphlothat a patient, relieved from pain by able condition and has escaped the and soon the patient is in a comfortfollowing may not be so prompt and take the place of opium. The relief lihood is the greatest disadvantage of gistine in any other way-which likepossibility of becoming addicted to a fering is taken off within a short time. so complete, but the edge of the suf-For relieving the pain of the inflam-There is not the likelihood

come stale, and keep your Antiphlogistine tresh-use it in inflammation. In the future let your morphine be-

the World's Anti-Alcoholic Congress der the charge of Miss C. E. Stodtion and Bureau at Boston, Mass., unrepresent the International Bureau of dard as secretary, has been chosen to The Scientific Temperance Federa-

> thing written in the world on this the Boston Bureau, 23 Trull street. urged to send their productions to vention and cure. cause and indicate the means of preized world to promote the temperane done in all the countries of the civiltwo organizations everything that is now possible to know through these plying all anti-alcoholic documents subject. will keep in close touch with everykept on file. Duplicates of these will so that there they may be noted and forts toward a better understanding of pertaining to the alcoholic problem. for the purpose of collecting and supthe subject that has been made. This is one of the most practical ethe sent to Europe, and both bureaus All writers are

without a license. The defence was aside the verdict. but the higher courts refused to put and this must be construed as retailing as possible in his institution; and in charged them the same as he would torium was charged with selling spirits spirituous liquors. He was convicted this way he derived a distinct probi or legal sense. It was urged against ally and not sold in the commercial it was given dietetically and medicina great deal of interest in Prussia. him, that wine and spirits were table for an extra article of diet, also that beverage for his inmates, and that he that he used wine on the table as a luxuries, which he pressed upon his them, and making their stay as long inmates for the purpose of pleasing The proprietor and doctor of a sana-A curious suit at law has excited

The institution of sanitariums for

papers, etc. cure, education through books and ing the means that are favorable for a lung patients do in that field. Dr. for alcoholic patients, which would setting an alcoholic to submit to treatin of lung patients. The difficulty of society or a drink cure, and advocatducing entrance into a total abstinence medical examination and advice, anare: Interesting entertainment, free such establishments. The chief points knust has worked out a program for alcoholism than the sanitariums for play a greater role in the battle against be overcome by means of sanitariums tive addresses. cles, but not the masses, with instructied physicians are of the first haporment is well known. have come into existence for the beneparallel for it in the institutions that medical papers. for discussion in one of the German Knust, of Bromberg, has brought up alcoholic subjects is a topic which Dr. These can influence small cir-Both difficulties could He thinks there is a Properly quali-

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ate homes. out of the public house and keep the ample: "What we want most now is there will be fewer inmates for inebriten that prevention is far more inof experts capable of understanding saloon out of the neighborhood, then portant than cure. the problem. It must not be forgotditions of the drink habit and the a careful exhaustive study of the contion of the alcoholic problem. gone far beyond the medical recogni-This study must be made by a number possibilities of the means of cure following from the Tribune is an ex-In many ways the Lay Press have Keep the child

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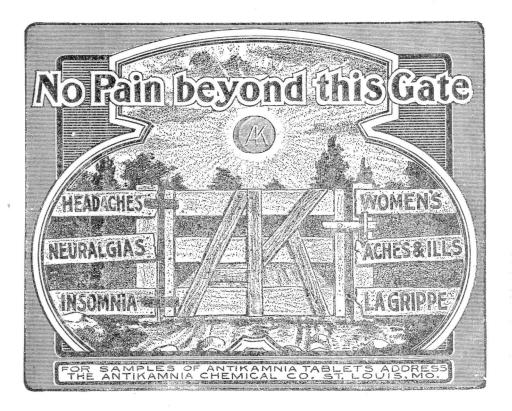
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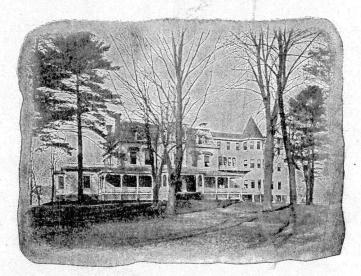
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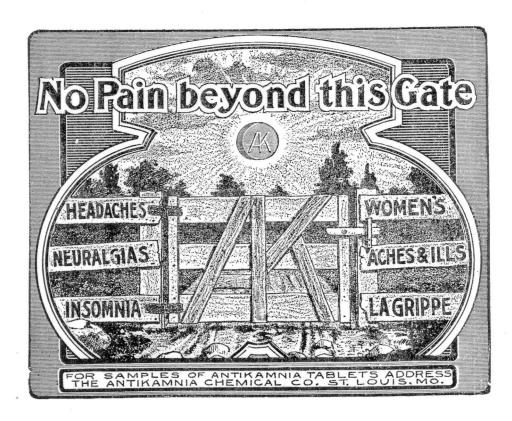


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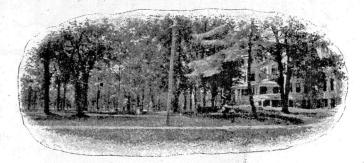
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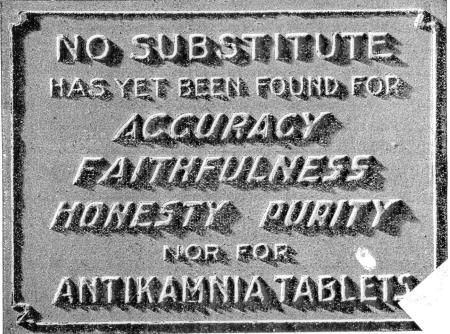
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