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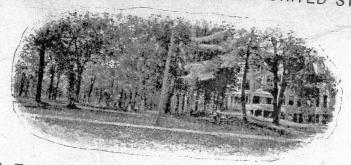
EDITED BY T. D. CROTHERS, M.D.

SUMMER, 1908

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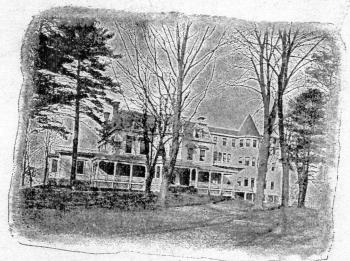
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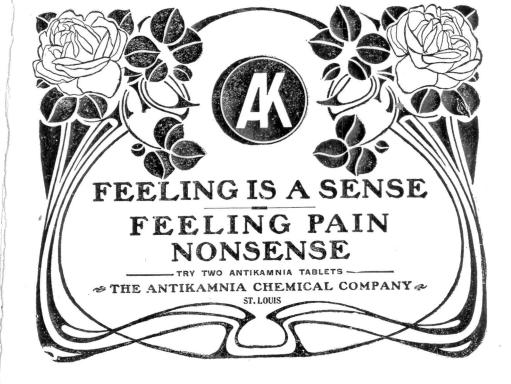
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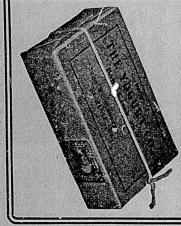
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THE JOURNAL OF INEBRIETY

SUMMER, 1908

THE RELATION OF ALCOHOL TO PHYSICAL DETERIORATION AND NATIONAL EFFICIENCY*

Surgeon and Demonstrator of Operative Surgery at St. Bartholomew's Hospital. BY W. MCADAM ECCLES, M.S. LOND. F.R.C.S. ENG. London, etc., etc.

duced its kind, and so the earth was peopled. avoiding danger, if any such existed. Moreover, it reprofood; capable also of rejecting noxious material, and thus of protoplasm was capable of absorbing and assimilating Endowed with powers, mysterious even to-day, this speck bearing it upon its surface, or sheltering it in its depths. Above it was the atmosphere, containing oxygen, a necessity for its very existence. Beneath it was water, capable of it moved, it had its being. Around it was its environment. 'N the course of his lecture, Dr. McAdam Eccles said: matter endued with unknown potentialities. It lived, earth, we know not when nor where. It was living A small mass of protoplasm appeared upon this

Earliest Life on Earth

seem to have had every portion of its surroundings in harmony with itself. All around ministered to its wants; acted harmfully upon its substance. water in which it floated chanced to contain that which not why, antagonistic forces began to act upon it. The none was a foe, all were friends. Soon, however, we know In its early days, this particle of living matter would Thus commenced

* Eighth Lees and Raper Memorial Lecture delivered at Cambridge, Eng., Feb. 4th 190°. Contributed by the author with the permission of the publishers, and all previated

Alcohol and Physical Deterioration

a struggle — the struggle for existence. The opposing forces were — the living matter and the poison. It is significant that every human individual begins existence as a single and simple cell, and this cell has to fight for its existence even from its earliest days.

deleteriously act upon the animal cell is very great. will be the more marked, and will tend to become peris constantly repeated, the structural changes in the cell must inevitably occur. If the effect of any given poison living element of the cell, and deterioration or even death is sufficiently strong, it may seriously affect the actual add to the power of the biceps. But directly the poison same way that muscular activity will increase the size and Such combat may strengthen the individual cell in the this fact should be more widely admitted and recognized. healthful up to a certain degree is undoubtedly true, and activities of life. That this conflict may in a sense be animal cell against external poisons is one of the unending been derived from the original cell. The warfare of the up of specially constructed cells, which in their turn have human body, the brain, the liver, bone, or muscle is made and the bacterium. Practically every particle of the of interest and danger; the warfare between the phagocyte access to the blood of the individual, a warfare alike full a large number of cells, similar to the original single cells. These carry on a warfare against enemies that may gain Every adult human being has, circulating in the blood The number of substances which can thus

Among them is alcohol, This term is used for a series of chemical bodies having a similar composition and similar properties. The origin and application of the word is a matter of some little interest. At first it was used to designate any particularly fine powder which could be employed to stain the evelids, then to designate any fine impalpable powder obtained by trituration or grinding, or a like powder obtained by sublimation. Afterwards by extension it was applied to fluids obtained by distillation, and later to that class of compounds which has just been indicated. Alcohol is very widely distributed in nature, and is in fact actually produced in the animal

economy, but only in such quantities as may be deemed economy, but only in such quantities as may be deemed negligible. It is largely obtained artificially by man for a variety of purposes, but chiefly to form one of the constituents of the many beverages habitually partaken of by him. Hence it comes about that alcohol in a more or less dilute condition gains contact with all the cells of the bodies of the greater number of adult individuals in the nation. Hence it also follows that if it acts as a poison, it may cause serious and often irremediable deterioration.

of alcohol habitually taken may do serious harm. and I need therefore say nothing from this point of view. constitution of both men and women, and even of children, alcohol play havoc with the moral, mental, and physical agreed, even the consumer of them, that large doses of and sapping the efficiency of the nation. Everyone is terioration which appears to be increasing in our midst, of the race. I shall endeavour to prove this proposition by scientific demonstration, and then point out some of alcohol acts on the human living cell as a poison, using forced upon the scientific mind that even small quantities the means which may be adopted to counteract the deduce a deterioration of that cell, and consequently of the the word in its true physiological sense, and tends to proor making worse. But it is only in quite recent years that the fact is being individual as a whole, and by extension, deterioration By deterioration is meant the process of I shall endeavour to prove this proposition My proposition, therefore, is that growing

And, further, it is even as yet hardly recognized that the very germ or sperm from which we have our being, may be harmfully affected by alcohol, and even from comparatively small doses. Alcohol taken into the stomach can be demonstrated in the testicle or ovary within a few minutes, and like any other poison may injure the sperm of the germ element therein contained. As a result of this intoxication of the primary elements, children may be conceived and born who become idiots, epileptics, or feebleminded. Therefore it comes about that even before conception a fault may be present. Although this fact may not as yet, from want of sufficient investigation, rest upon thoroughly attested evidence, yet there is absolutely no

doubt that the growing and developing embryo is liable to much injury from contact with alcohol before birth. Experiments almost numberless have been conducted on these lines, and the results have been so very markedly uniform, that they can hardly be doubted to be other than facts.

on the development of their weight and length of body develop but feebly; alcohol has had a deleterious effect with small quantities of alcohol, these will be found to of the litter are allowed to have food which has been treated should, do not so quickly develop gill-slits, and exhibit rabbirs and puppies have given similar results. If some of view of size and of structure. Experiments upon young normal development of the chick, both from the point only feeble movements. A precisely similar want of deand the tadpoles which are hatched are undersized and alone was used. But where diluted alcohol is in contact in a similar watch glass (2 per cent of alcohol is about upon the eggs of a hen during incubation is to cause abhas been repeatedly shown that the action of alcohol vapour velopment is seen in the higher grades of animal life. It feeble. very different. It is normal in that one in which tap water development, but the result in the two watch glasses is are placed under otherwise favorable conditions for ten drops of absolute alcohol to one ounce of water). batch is placed in tap-water containing 2 per cent of alcohol tap-water, and another portion of spawn from the same placed in water in a watch glass carried out as follows:by investigators. The experiment and the control are experiment, a condition which is too often lost sight of this line of investigation must be checked by a control actual composition and construction, the eggs of the frog care to, this coming spring. It should be noted, that in spawn, an experiment that everyone can repeat, if they from those of the human race. Every experiment in differ but little, even when observed by the microscope, the spawn, many eggs fail altogether to develop, Take the example of the action of alcohol upon frogs Subsequently they fail to grow as large as they A portion of frogs' spawn is - the water being ordinary

> And the young of the human animal are no exception to the rule; for let alcohol, even in small quantities, come in contact with the growing cells of the human infant, and there is a chance, nay, a probability, that irreparable harm will be done.

import may be brought into existence. A father or a degenerates one degree worse than themselves. may be quite insidiously, and they in their turn produce in alcoholic beverages. Their offspring are affected mother or both parents are given to excessive indulgence which the normal brain might have been able to withexistence and the individual evinces that crave for alcohol upon it. Then it is that the inherent defect shows its apparent in many instances when some strain is thrown sulting handicap to its welfare in the world only becoming impress in a latent manner for long after birth, the retoxins -- circulating in the mother's blood, can pass, and child before birth, and that a child may carry such an but we do know that disease may be impressed upon the infant. We know but little as yet of the laws of heredity. is one of the poisons which may so invade the developing often do pass, into the organism of the child. may be damaged even before the child is born. Poisons It is a momentous fact that the cells of the individual It is thus that a vicious circle of the most serious Alcohol

milk within twenty minutes of its ingestion into her stomach a large dose. Dilute alcohol thus passed into the system and it may be detected in it for as long as eight hours after imbibing, for alcohol can be readily traced in the mother's to nursing mothers." is no such thing as "nourishing stout of the greatest value of milk is not increased by alcoholic beverages, and there is poor in quality and deficient in quantity. The amount way to drink generally feeds her child with milk which after it enters the world. of the child invades every part of its being, and has a parappreciable amount of the drug which the mother has been ination before birth, only to be caught by the foe very soon But a child of alcoholic parents may escape contam-Frequently the milk contains a very A nursing mother who gives

rilking to, young man to me as buried six ?" dignation, and her causic remark was, "Who are you exposing When a mother was recently remonstrated with for thus redound to the credit of the educationists of our land. rance in most instances, an ignorance which does not is made, I verily believe, as the result of maternal ignothe most ignerant that its proper use is that of a drug tutored palate, a fact which ought to indicate to any but evidence that alcohol is not a fluid appreciated by the unor even spirits. The child makes a wry face over its dose, rather than a beverage. This administration of alcohol carried into the public-house and there treated to beer is not an uncommon sight to see quite young children very different from the ordinardy accepted idea in the from its mother, but it is by no means unusual for alcehol may receive alcohol mixed with the natural food derived public mind. It is not only, however, that the infant alcohol should be avoided, a recommendation which is rearing of infants, lay stress on the recommendation that pitals in their hints which they issue to mothers on the It is on account of these well-known facts that many hosacure and chrenic alcoholic poisoning, the results of which veloping brain. It is in this manner possible to pave which infants at the breast have been the subjects of both the way for many degenerative lesions which are manifest neularly harmful effect upon the growing cells of its deremained as permanent defects in the individual administered to it apart from maternal milk. It her infant to danger, she was furious with in-Numerous cases have been reported in

Women who are public-house frequenters are not only bad nurses, but they are also bad mothers. How is it possible for a woman to be a mother in the truest sense when she is wretchedly fed because so large a proportion of the weekly earnings go in drink, when she is thinly clothed because the pawnshop swallows up any decent garment which may have been dearly purchased, and when she is so utterly cateless of all her ways because

and a single living-room often means rent-money spent to prove the fact that life in one room means want of growth; school children both in Glasgow and Edinburgh go tar centiv intemperance in one or both parents. The statistics reof child deterioration is due directly or indirectly to habitual on drink. economics, that at least fifty per cent of the instances tions, and by those of many another student of social and all the accompaniments of a wretched environment of food provided for the ordinary pauper-inmate of the which exists, but I am convinced by my own observato spend nearly one shilling a day on alcoholic beverages workhouse, and how then can it be justifiable for the family parents and the children? It is an established fact that to provide adequate food, housing, and clothing for the lend their share in the production of the deterioration I am perfectly willing to admit that poverty, bad housing large enough to obtain for each member even that amount many thousands of families in London have not an income the least, is not necessity, how can there be enough left than six shillings. If this amount goes on what, to say week by each working-class family in the land is no less fully compiled show that the average spent on drink per mothers in our large cities and towns. Statistics care-And yet this is the condition of thousands of so-called her intellect and hner feelings are blunted by alcoholpublished concerning the height and weight of

So impressed were the members of the Inter-Departmental Committee on Physical Deterioration with the evidence laid before them concerning the relationship of alcohol to deterioration that they place the consumption of drink next to urbanisation as a causative factor. Their emphatic words — "The Committee are convinced that the abuse of alcoholic stimulants is a most potent and deadly agent of physical deterioration" — should be pondered over by all who have the welfare of the nation at heart. And this abuse of stimulants commences to act even before the birth of the child, continues its effects in infancy, and is often perpetuated in youth and adult life. How, therefore, can it be otherwise than debility in the earliest

days, stunted growth before maturity, and deterioration and mental inefficiency at the time when the nation demands the finest and most productive output from those who should be its grandest asset?

So far as the effect of alcohol indirectly and directly upon growing tissues has been discussed, all the facts adduced point to its being a strong factor in the production of physical deterioration. It is necessary now to review the action of alcohol upon the tissues of the adult. Here again it is only needful to make a passing allusion to the effects of large doses of the drug upon the physical and mental constitution of the individual. The incbriate as a rule carries his infirmity written upon his face, or dictates the same by his words and actions. He is unstable in thought and precision, and his muscular as well as his mental powers soon become inefficient. It is wise to retreate some facts which are not often given their due significance.

and any factor which interferes with the proper compobody is dependent upon the blood for its nourishment, through which the blood circulates. Every part of the upon the cells of the blood and upon the cells of the vessels on the other hand is a poison which has a distinctive action the spinal cord is the tissue chiefly affected. Alcohol, of tetanus, or lock-jaw, illustrates the second, for again and this drug has a peculiarly selective action towards or micro-organisms. Strychnine is an example of the former, and others less-known products of the activity of bacteria, a similar manner, some of them being well-known drugs, same individual. on different individuals and upon different tissues in the the tissues of the adult. The blood itself by carrying the tion of imperfect nutrition and consequent deterioration sition or circulation of this fluid is a factor in the producticular. The toxin produced by the "drum-stick" bacillus the central nervous system and the spinal cord in pardo their proper work - in fact, they are intoxicated. poison is rendered abnormal; its constituent cells cannot There are two ways in which alcohol plays havoc with Alcohol is a scheence poison, and acts very differently There are many poisons which act in

> of alcohol in one thousand drops of normal saline solutions affected by even small doses of alcohol, actually by one drop of bacteria cause "riot in the veins." altogether inefficient, when any undesirables in the shape are irritated, numbed, paralysed, and even killed. tated, "stimulated" if you like, just at first, but quickly amœba, that beautiful unicellular animal, is profoundly like any well-trained constable, become lazy, mert, and cells, which should be alert, discriminating, and efficient, with the white corpuscles of the blood, and they likewise brane into the blood vessels. There it comes into contact stomach is rapidly absorbed through the mucuous memnumbed, then paralyzed, and finally killed. The white the fluid in which it is best at home. blood-cell is practically an amoeba. Alcohol taken into the By alcohol it is irri-Thus these

But, in addition to the constituents of the circulating fluid being thus interfered with, the walls of the tubes through which it passes are liable to be damaged. A condition which is known as arterio-sclerosis is brought about. This term indicates a hardening and thickening of the walls of an artery. In the healthy state, an artery is an elastic tube which by its very elasticity forces the blood, pumped into it by the heart, to the remotest parts of the body. Even if the heart "beats" normally, blood would not as a rule reach the toes without the further propelling power of the elastic arterial walls. Given, then, arteries which have lost their natural elasticity, and many parts of the body will in consequence suffer from malnutrition.

Alcohol produces this hardening effect upon the arteries. In fact, some authorities believe that alcohol shares with one other toxin the evil repute of being the most potent cause of arterio-sclerosis. It does not, moreover, require large quantities of alcohol to produce this effect; even so-called "moderate" doses, if sufficiently long-continued, will cause the arterial wall to become so changed that the vessel will be a rigid, and often actually a brittle tube. Added to this, there is a serious resultant effect upon the heart itself. This organ, because of the loss of the help normally given to it by the elasticity of the blood-vessels, has now an increased amount of work to do in

Alcohol and Physical Deterioration

come "furred" like a water-pipe. If a young man takes arteries in childhood are clastic, supple and soft, those a wirty saying, but none the less is it a true one. it with dire results. "A man is as old as his arteries" is able to stand this extra strain, and it will give way under part of the system. Sooner or later the heart will be unendeastoring to urge the life-preserving fluid to every old; he will deteriorate before his time, and the nation will nizable in its earlier stages, he will become prematurely an effect which is often very insidious and almost unrecogalcohol, and it has this deteriorating effect upon his atteries. have deteriorated, they have begun to wear out, or to beof an old man are liable to be hard, firm and rigid. They intents defrauded society. old as his "aged" arrenies are, and he has thereby to all quora to the nation's work. He will become, in fact, as lose his efficient service before he has given his proper If the

While, then, alcohol may act directly upon the elastic tissue of the atterial wall, this is not all, for it may also act indirectly. Alcohol retards the excretion of toxins and other poisons from the blood. It is a fact worthy of notice that muscular activity causes the formation of a peculiar waste product termed hypoxanthin. This has peculiar waste product termed hypoxanthin. This has to be eliminated as quickly as possible if the individual wishes to keep fit. It is absorbed by the lymphatics and passed into the blood, by it carried to the kidneys, and by them excreted. It is a definite poison, and like alcohol,

Alcohol markedly diminishes the excretory power Alcohol markedly diminishes the excretory power of the organs which cleanse the blood of its impurities. Alcohol thus prevents the rapid elimination of hypoxanthin, with the result that the blood becomes surcharged with the poison. In this fact lies the chief reason why all in strict training advisedly eschew the use of alcoholic beverages.

Hence it can be clearly seen that the two deteriorating substances may be acting together, the one being, as it were, the complement of the other, with the consequence that the alteration in the arterial wall is doubled in its severity. Over-eating of animal food introduces into the blood an excess of a similar product to that known as

hypoxanthin, and where this over-indulgence in meat diet is associated with an habitual use of alcohol, the double force will again be at work. If, therefore, anyone wishes to keep young and fit, let him above all things be moderate in his diet, and avoid all forms of alcohol. Many other toxins present in certain diseases are much more potent when alcohol is also present, or when alcohol has already diminished the resisting power of the organism. This is particularly manifest when the toxin of influenza is circulating in the blood.

The wearing-out of the arterial system, through even the moderate use of alcohol, is one of the greatest risks to the life insurance office, and the medical examiner has ever to be on his guard against its existence. An extremely interesting demonstration has been made by those insurance offices which possess two carefully separated sections, the one for abstainers and the other for non-abstainers from alcohol. I happen to be the chief medical officer to one such company, and here are the facts of the case:

The office was founded in 1864, over forty years ago, and from the first it had these two sections. The "lives" in the non-abstaining section have always been "good"; in other words, even the non-abstainers are derived from a class which does not hurry itself to its grave by unnatural habits of life.

The founders of this office were from motives of sound business, anxious to make the general or non-abstainers' section thoroughly high-class. They gave strict injunctions to their agents and medical examiners that only the best of proposals should be sought for and accepted. So strict has been the investigation before approval that only eighty out of every one hundred deaths that were expected by a rigid standard have been realized. This is even better than the directors hoped for, and is a matter of sincere congratulation, not only to the longer-lived, but also to the Society. The founders were even wiser than the result of the non-abstaining section would show. Their establishment of a section for those who were total abstainers from alcohol, and were at the same time living under similar conditions as those in the non-abstaining

pected, and the significance of this fact is so great that it there were only hity-four deaths out of every hundred exsection, has proved still more satisfactory. In this section

cannot be overlooked.

and to regain complete efficiency. the individual, there is but little hope that the result can once deterioration has made a marked impression on verbial that "Prevention is better than cure." When of the nation may be minimized or abolished. It is prothe deleterious effect of alcohol on the physical welfare tissues of the body, there ver remains for me to show how ordinary alecholic beverages, and deterioration of the is a marked relationship between the alcohol, drunk in to regenerate nervous rissue, to restore mental balance, be eradicated. Having endeavored to conclusively prove that there It is impossible to introduce new arteries,

occupation, and ought to be efficient in it. If he cannecessity of a living wage, and the madequacy of the amount power to drive it home, ought he to receive the same rate of wages as his skilled mate? His ignorance is the fault, edge as to how to manipulate it or from lack of muscular not properly use his spade, whether from want of knowlnavy ought to be skilled in his own particular line of who must rank as unskilled or inefficient. worker, but that there should be no such person as one much that higher wages should be paid to the unskilled paid to the unskilled worker to provide him and his family oration, and continue to poison themselves with a drug with the bare needs of life. The fact is, however, not so methorenov. which makes for greater changes in the tissues, and greater are born of parents who were themselves degenerate, are less, are methcient because of congenital defect. They by the drinking of alcoholic beverages. Many, doubtlack of muscular power is all too often the result of poisoning vided with that training which makes for efficiency. in most instances, of the State in not seeing that he is pro-There is much said at the present day concerning the surroundings which produce further deteri-Even the

Therefore prophylaxis, or prevention is all important,

will be formed. Then, and to my mind only then, will go on with the children, finish with the children, and in for the state of things is to be found. Start with the children, the only true and scientific manner by which the real remedy Acts of Parliament have the far-reaching effect for which the course of even one generation a decided public opinion

the question of prevention:but suggestions which have a very practical bearing on Here are seven suggestions, not new by any means,

Educate the mothers and fathers.

Prohibit the entrance of children into public-houses

Feed the children.

Teach the children.

Limit the opportunities for adults to obtain liquor

Provide sound recreation.

Promote research, and publish results.

right manner and see the results. to these objectors I would humbly say - try them in the that they are idealistic and practically unworkable, but in the time at my disposal. Some may perhaps affirm I can only very briefly touch upon these propositions

the children, particularly of the young men and young women who are on the threshold of life. How is this eduintroduce the question of alcohol in relation to the welaim of every young men's guild and debating society to to do good. With regard to the men, it should be the on a small income. There is no grander national work matter be frankly and fairly debated and voted upon. fire of the nation at least once in every year, and let the established are all in the right direction and cannot fail borough and parochial health societies which are being that they know the elements themselves. The young women must be taught the elements of child cation to be accomplished? That of the women comes needed is a sound, practical education of the parents of than this for the ladies of the land - provided always A good mother produces and trains efficient sons. have purposely put this first. What is so much good cooking, and of household management The numerous

instruction can be given on the subject by the placarding comes with so much more force than if from private enterauthorities themselves doing the work officially, for it money was being illegally used. I believe in the municipal sum for this purpose, so that no one might say that public city and borough councils were provided with a special whether themselves abstainers or not, would see that the It would be politic if those interested in the question, should be repeated year by year, and more widely extended. this method of education has been extensively used; but it pearance of the Inter-Departmental Committee's report Committees of the municipal authorities. Since the apof boardings with posters officially issued by the Health and possibly ere long he may become public-spirited enough on the relation of alcohol to physical deterioration and they have as much right and responsibility to issue others with regard to the spread and prevention of consumption, lighting of the streets. If the authorities issue notices for the health of the people is at least as important as the to do so concerning the deleterious effects of alcoholic hesitation in exhibiting notices concerning consumption, beverages. Then, for both men and women, a vast amount of Surely it is the proper work of the municipality, Even the proprietor of the public-house has no

of Prohibition. It would do much to keep the children mediate legislation in the direction of at least this amount the presence of children in public-houses calls for imbe fed, and fed from its earliest days. If during school does not receive sufficient food for the proper growth of the child from drinking alcohol, if at the same time he rain the sobriety of the mothers. free from actually imbibing alcohol, and much to maintion of them upon drink, a means should be found whereby the fathers are earning wages, and squander even a porbe permissible for official inquiries to be made by responsible years it is found to be underfed by its parents, it should the body. The recent disclosure of the truly awful effects of When by these investigations it is found that I believe implicitly that the hungry child must It is useless to prevent

> table or the ratepayer. educational authority, and not at the expense of the charifor the feeding of the child under the supervision of the a corresponding part of this weekly wage should be annexed

earned is, where necessary, diverted for the feeding of discover work, with a scheme whereby part of the money should, as they are, do all in their power to provide or If the fathers are workless, the municipal authorities

and ill-nourished children is sheer folly of affairs comes about, the educational committees will the children. be forced to feed them; for to attempt to teach hungry The children must be fed, and until a sounder state

work, and one which is not sufficiently recognized by the infinite credit. They are doing a magnificent national struction, and are giving it in a manner which does them are so fully alive to the value and importance of such inments of hygiene and Temperance. I am more than thankbad. Teach the children throughout the land the elemind so biased that it cannot choose the good from the when it reaches the years of discretion, not have had its beverages are not desirable for children, it will at least, should be the chief component of its diet, and that other also if the young mind is early made to learn that milk the same good manner in its own being and clothing. how to keep its doll clean, it will unconsciously imitate and drink can be inculcated in a pleasant and instructive the value of fresh air, sensible cooking and rational food the doll and the doll's house. Cleanliness, tidiness, and days the right methods, with an example before her in child? Why, surely, by teaching her from her youngest to be taught the manner in which she should rear that and graphically. How is the future mother of the child selves have been taught the principles of hygiene and aptitude for teaching. Teachers are wanted who themmanner to even the very young. Temperance, and who can impart their knowledge simply ful that the teachers in the elementary schools of our country Teachers are wanted - skilled teachers, with Herein, I am sure, lies the secret of future betterment If the child is taught So

Alcohol and Physical Deterioration

a public opinion shall not have been created which will carry with it all needed legislative reform in the matter given there is no reason why, in a succeeding generation of liquor control. If this teaching is thoroughly and practically

a public-house in many of our cities and towns to be so interests of the nation or the individual when we allow a paper before they could obtain them; nevertheless I stringent safeguards than it is at the present. I am not as readily as its fellow-poison, alcohol, I do not think subject is thereby threatened. If morphine were on sale their sale, and no one considers that the liberty of the commonly used, are much more severely restricted in causes the downfall of so many. Other poisons, not so alcoholic beverages can be obtained that in many instances moderate amount of alcohol is a good thing, but all who essential that the majority of the nation should be carried a difficult one, and will only be solved, in my opinion, such as has tended to the sobriety of the women of our rants to object effectively to such houses remaining in their and certainly facilities should be given to the local inhabiman to enter it rather than return to his own dwelling; close to the dwelling-house that it allures the working will say that I do not think we are acting in the truest or any drink containing alcohol should be forced to sign going to suggest that every one who desires to imbibe spirits that politicians would take long to put it under even more think, admit that much is bad. It is the facility with which with every advance in stemming the tide of alcoholic poisonempowered to indicate by vote that they are not desirous by improved habits and by the people themselves being England is not ready for total Prohibition. The subject of the limitaton of supply is confessedly The majority of the nation still consider that a Nor do I think that the grocer's license has been

ished, something must take its place. This is which is his right, then if it is to lose its hold or to be abolartisan can obtain that social interchange and recreation of retaining such over-abundant facilities. If the public-house is the only means whereby the

> and let not that grand heritage of old England - home home cheerful and happy for the husband and the brother, and 'hearth - disappear. in useless drink, it will be ready for other outgoings. Extra matter most earnest consideration. If money is not spent all, and every student of social economics must give the rent can be afforded, and thus a taste for better things will But above all let the women of the land make the More money will be available for reasonable recre-

will hasten the day when our nation will no longer suffer up subjects of learning for which they have been for cenwhich has always been our boast. secure the universal development of that national efficiency viduals as the outcome of poisoning by alcohol, but will the mental, moral, and physical deterioration of its indi-By doing so, it will add greatly to our knowledge, and authority, the results of such study and investigation mote research, but it should also publish, with its weighty on their shoulders. The University should not only proall those who in after-life will have the affairs of the nation cal, and religious, that it is well worthy of a close study by has so many sides to it, social, economical, political, mediserious place in their programme. The subject of alcohol of national and international importance should have times, and the consideration in greater detail of problems turies rightly famous, yet they must be abreast of the sorry to see our Universities, the older ones at least, giving the days of rapid advance, and while I for one should be find a response from the seats of learning in a more definite such national importance and widespread interest should gations under their own auspices. Surely a matter of themselves were able to promote these particular investiout lines; but it would be far more forcible if the Universities are promoting research along sound and carefully thoughtof sound knowledge, the more rapid will be the trend of that at the present day some of our Temperance societies public opinion in the right way. It is a happy augury practical form than it has hitherto done. We are in There can be little doubt that the wider the diffusior

Psychic Treatment of Inebriates

control may be very prominent. The treatment of the of age had acquired large property by wise adjustment and quick impulsive thought. He was untrained to reason of thought. If the patient is a trained man mentally conception, or a slow training away from his present range and overcoming it, the other a gradual change to new trusion of a new range of thought, antagonizing the present efforts should be made to correct this. Two methods appear in an exalted egoism, with delusions of persecution, the most prominent symptom. If the psychic disturbances worker the changes observed in his mental and emotiona and the psychic remains about the same. If he is a brain except along his particular line of work. example is the following: A merchant forty-four years with or without special reasoning the psychic needs powerand is inclined to take different points of view suddenly up his present condition. If the mind lacks concentration credulous a sudden shock and revolution is necessary to break devised, a gradual training process is more likely to succeed fidence and faith in his strength to carry out the plans and accustomed to think and act for himself with conare to be considered, one the sudden, overwhelming ob-The character of the derangement and the direction of physical requires the removal of the toxines and the imworker, alterations in the physical may be prominent sufficient degree of prominence that suggested paresis eration without danger. This egoism had attained a that alcohol was a good remedy and could be used in modment of the psychic was pronounced in his confidence ful revolutions to overcome If he is without much mental training and impulsive and Then the question of the psychic treatment comes up provement of nutrition. This is essential in every case. Il spirit and drug takers exhibit degenerations the first questions is, which of these two conditions is most prominent. If he is a muscle both of the physical and psychical its present condition. The derange-

influence was tried with great success on a man of very so profoundly that it was broken up. This with physical examinations showing the injury he had received changed the whole course of his life. An instance of the same ending in vomiting and depression served to fix the idea avoid the possibility of relapse. There was in this a psychic out in its strongest light. He was advised to write a will applied in various ways to produce physical and mental continued the psychic measures always associated with and still further deepened the impression. His physician changed the whole current of his psychic. This was great apparent efforts to save him at the last moments, use of spirits was supposed to be in the first stages of general pronounced convictions, and who from the continuous repell it and that it was a poison to him. Repeated efforts phia and told with great emphasis that his system would whole career. He was given spirits mixed with apo-morhis belief that it would lengthen his life and change his change and revolution that resulted in final recovery. a new conception of what he must do to keep well and disappeared. After three months' treatment he left with consented and his egoism grew rapidly less and finally hours out of every day. ment was planned and carried out, involving drugs, baths, and prepare for sudden death. The most elaborate treatevery possible deviation from the normal was brought sharp decisive measures to overcome the psychic were in the future. After the usual preliminary treatment, purposes of life. On one occasion the death of a favorite depressions which completely change the thought and ling psychic effects are often produced by electric currents, followed by drugged spirits which produced intense nausea body and arrangements were made by which he would that he would never stop the use of spirits and expressing In a second case a patient came under treatment asserting electricity and continuing for at least twelve or thirteen hours out of every day. At first he objected, later he physical means to restore and build up the tissues. Startfall over board. He was examined with great minuteness and While on his yacht a rope was attached to his The shock and fear of dying, and the

of cases drugged spirits and startling shocks would have means be used to produce sudden or gradual effects, and and his surroundings. The real question is, should these conceptions and egotistical delusions varies with the man course of life. The range of practical psychic measures drinking of the parents. child was made to appear as the direct result of the wine up the body. In the various gold cures this psychic trainhim to use every means that would strengthen and build use of this fact to change his psychic thought and trained had a morbid dread of its appearance, the physician made where cancer had been a family disease and the patient abstainer and was permanently cured. In another instance and by pressing this to its fullest extent he became a tota psychic measures used all had reference to this one thought tion that it might in some way lengthen his life. of death, and had pr bably taken spirits with a convicgradual training was that of a man who had intense fear to their significance and meaning. An example of this use of drugs and other measures and then the mind turned and their meanings. Symptoms may be created by the practical of which is exhaustive studies of the symptoms begin and be carried on by gradual processes, the most by the use of these means. The psychic measures should only transitory effects and the patient would be worse can be used together and naturally so. In another class which would be the most powerful and lasting? to produce revulsion and permanently break up menta a way as to practically change their whole mentality and class of cases where the psychic treatment is very valuable active measures as urgently as the physical. The second will fail. The psychic must be considered, requiring the treatment. Remedies addressed to the physical alone marked delusions and are literally very essential phases of to persons who have acute active working brains with fails, because of the deception and crude application of weakness with great emotional changes and efforts to other measures. that in which there is confusional excitement and is outlined in many of the means used, bur usually These means are applicable particularly This idea was promoted in such

overcomes their power. Diverting nerve energies new work overwhelms the morbid impulses and effort to have the mind diverted and changed to of occupation are the psychical means of value. diminished diet and change of surroundings or change carefully arranged a detailed treatment. In other cases by an ocean voyage under the care of a physician, who beginning of the summer vacation he was treated for this other case always used spirits to great excess. culture and eliminate diet were prominent features. in much the same wily at a sanatorium where physical proved and the approach of the next attack was treated a chorough rubbing every day. He returned greatly im-Catskills. by his physician and/sent off on a walking tour over the energy before the attacks. He was examined at this time was observed to have periods of great mental activity and example of this is the following: A very active lawyer sharp eliminative drugs; the result was recovery. of the attack every available moment was occupied with with baths and drinking mineral water. At the approach a most elaborate treatment of moderate exercise and duties of sleeping with a special diet was effectual. and baths at regular times of the day and proper hours and encouraged to depend on the use of some positive drinker with free intervals of two months was placed on treatment of the mind should be directed to the physical, Thus in one case an elaborate system of physical culture measures that appeal strongly to the functional activities. often accepted by the friends as evidence of cure. The he will never touch spirits or drugs again and these are ticularly alert and sensitive to impressions particularly to of others for his condition. At this time the mind is parpersecution and strong conviction of the responsibility mind turns with intense interest to find reasons and exseen in periodic drinkers, after the subsidence of the lunk planations. This usually concentrates into delusions of paroxysm, and in the depressed period of remorse. explain the reasons for the use of spirits. This is commonly The most positive assertions will be made that An atterdant went with him and gave him A periodic

sources of irritation and measures addressed to the physiand possible measures of diversion and change of mentreatment for this class will include almost every means amount of physical exercise was taken daily. Recovery nuneral spring, drink so much of the water and return take a Roman bath every day preceding the return of the drink paroxysm and to walk three miles away to a spirit taking had reached a chronic stage was ordered to remedies cannot be understood. Such a person whose lating the subliminal is another form of explanation. If so many hours in the garden. The result was very gratiout every direction. This grew as his health improved course of treatment occupying every waiting hour of the stance a patient after the excessive use of spirits tried to impressions sustained by physical remedies. In one insclerotic physically and each year becoming more of a aimless, restless movement, and who are always looking the tramps. Higher up globe trotters whose life is an despair and indifference concerning the present and future the exhaustion and desire for spirits give new force to the of the organism and any conditions of living that increase cal as well as the psychic. The correction of the faults had passed the baths were discontinued and a certain brain is depressed and weakened the meaning of the psychic he can be impressed to join in these efforts. the patient has an active brain or some culture or training new channels or depressing the consciousness by stimudrown himself and was rescued with great difficulty. burden on their friends. They need profound for some new experience. They are all toxemic and Many of this class are seen in the station house and among depression and melancholy. A condition bordering on psychic remedies. Another psychic phase is that of general within a certain fine. He was finally sent to the country and required to work He was placed in a sanatorium and given the most elaborate He was impressed with the necessity of following Of course this depends on the removal of all physical He became an enthusiastic horticulturist and It will be evident to the reader that psychic When the period for the attack psychic

ment of a new character. An incurable who has been and went back again to his old tramp life. The influence work in his barn taking care of his horses and wagons country physician for help. The physician put him to an inmate of all the institutions and failed appealed to a the removal of this influence is followed by the developsome very pronounced way either for good or bad and of the physician kept him up and his death destroyed all in the downfall of the patient. He lost all of his property was highly respected. The death of his physician resulted him in business and the man became very successful and way directed all his work and duties. He finally placed went out to the country following the bent of his latent ing this study and work he recovered, and after treatment garden, and encouraged to take up floriculture. By press-His latent taste was discovered and he was sent out in the in botany, but never had an opportunity to develop this of life. Thus a man who in early life had been interested it have been a psychic force to change the whole current up and is uncultivated. Bringing this to light and stimulating is discovered, which from circumstances has been covered measures it often happens that some dominant impulse was active in hnal restoration. It was the psychic treatment assisted by the physical that purposes in life followed, and he studied and became a restoration was very pronounced. New ambitions, new the need of certain changes of thought and conduct. giving him very exact duties and pressing upon him daily are common in which one person influences another in purpose and motive in life. Examples similar to this psychic and the higher consciousness of right and wrong. He obtained strong personal control over him and in this bilities, placing him in a position that would rouse the brought him up and gave him exact duties and responsiand made him the subject of profound psychic treatment. interest, came to an institution in middle life an incurable physician and was a man with much force of character First he kept him in bed for several weeks then gradually fruit grower and was a very useful man for the rest of A physician picked up a tramp on the street In the use of psychic

ethical meaning of the influence. and the possibilities of helping others. The psychic side come exhorters and temperance revivalists. Some latent quite common are noted of reformed inebriates, who before these psychic impressions can receive a permanent by physical aids and sense impressions. The exhaustion appeals to the higher ethical sense as expressed in faith, and reasoning that will dominate all lower impulse. The taught to build up within themselves forces that will control ings or certain personalities or drugs. Others can be ditions of life, either in the care of themselves or surround-Some persons may be taught to depend on certain conimpulse are all great powers and agents in the treatment. surroundings, occupation and the pressure of a dominant pulses may restore him to normal life again. Climate, is very great. The awakening of some dominant imare not far removed from the conditions which they gloat wretchedness and depravity which they have passed through, formed men who take keen pleasure in describing the changed the direction of the psychic. Many of the rewho becomes a saint in his conduct and work has simply The man who has been the paragon of wickedness and the activity of the lower impulses is recognized as abnormal contagion to encourage the use of spirits and stimulate to benefit others it attracts no attention. The same psychic of such men is often abnormal and while the purpose is influence and control others with little regard to the higher revealing only the motive and pleasure of the person to of temperance reformers is a very interesting study often been uncovered by a revelation of their real conditions been covered up by years of other activities, finally it has quality or impulse to become teachers and leaders has impulse and was a temperate useful man. Other examples ful means that can be used. But it must be supported love and desire to live hereafter is one of the most powerbuilt up on fear it is less stable. In the psychic treatment religious impulse is a powerful factor, particularly when based on reasoning and the recognition of facts. When poison conditions of the body must be removed be-The possibilities of developing the psychic side The contagiousness

> and answers, what to do and how to do it. It is much advise and counsel. There is a suggestive power in questions ful sign to have patients depend upon the physician for and frequent visits to the physician. It is always a hopein an institution are greatly benefited by continuous counse thoughts and feelings and receive from the physician and symptoms. Some very remarkable cases have been are appearing in all directions and which constitute the controlled. What is needed now is exhaustive studies psychic treatment to teach one, to give unusual care and than it is upon drugs, and it should be the object of all safer to encourage the patient to depend upon the physician he faithfully carried out. Many persons after treatment minute directions concerning each act and event which insisted that the patient write down daily a record of his body.' Beyond this we must judge from manifestation markedly in the functional and organic activities of the capillary circulation and this will either cause shock or either concentrating or diminishing it will change the ways lessen depression. The change of nerve impulse is authoritative that it can alter metabolism and in many along these lines to make use of the unknown forces which attention to the functions of the body. noted of impression either suddenly or slowly is registered very psychic influences repair structural lesions? that of drugs and any other measures factor in the patient's life, the psychic side is more easily less pronounced alteration. The effect of a powerfu The question often asked is, how far can suggestion and physical conversion, and change of thought and motive psychic treatment of inebriety will be of equal value to When they are understood and applied scientifically the power of the quack, only used along crude ignorant lines. psychic treatment, where the physician has its broad sense must include If this is a dominant One answer

COFFEE AND TEA POISONING

BY DR. A. GOUGET

Profession agreges. Physician to the Hospitals of Paris

NOWING the composition of coffee and tea and poisoning. can study the manifestations of coffee and tea the action of their principal constituents, we.

morial, according to Prosper Albin. hernia for its intestinal action and as an emmenagogue, tion, but particularly cerebral excitement, whence the circulatory, urmary, intestinal, and even genital sumulaa certain amount of general sumulation; motor, respiratory, to it, will produce, usually, in about ten or fifteen minutes, coffee, when taken by a person who is not accustomed which was employed by the Egyptians from time immeto coffee. Coffee has been used of old in strangulated Acute Coffee Poisoning. - A cup or two of strong "The Intellectual Drink," which has been applied

convulsive or cramp-like motion, and finally hallucinations strangury, sometimes with retention of urine, headache, a rapid and at hist tense pulse, then a smaller irregular or if the person is particularly intolerant to coffee, in small which very strong coffee is taken as an abortive measure and delirium, a condition known as coffee drunkenness vertigo, noises in the ears, excitement and trembling and pulse, pailor, with shining eyes and dilated pupils, abundant sation of anxiety and thoracte constriction, palpitation, pathological: there is an exhibarated respiration, a senphenomena which we have just mentioned become clearly doses (a single cup may suffice), then the physiological in analogy to alcoholic drunkenness. perspiration. Then there may be vomiting, diarrhoa, If the dose is too strong (for example, in cases in

palpitation and anorexia. Death, sometimes sudden death quite exceptional, even after the ingestion in a single several days there is some excitement, some tremot, Usually these symptoms do not fail to improve, but

* Translated from "La Tribune Medical" and appearing in the American edition

this case the patient was a strong man, and vomited part of the poison. In another case, reported by Curschmann, some diarrhœa. in spite of the fact that she did not vonit and had only and swallowed the whole amount at once. She recovered roasted, in 500 grammes of water, had expressed the residue on her menses, had infused 250 grammes of coffee, freshly the patient was a young woman who, in order to bring of coffee infused in 250 grammes of water (Cohn). dose of considerable amount, as, for example, 80 grammes

use. The abuse of coffee, however, produces, like the abuse of alcohol, a set of more or less serious symptoms. coffee produces will gradually disappear under its habitual after a person gets used to taking it, just as in the case of certain amount of tolerance for coffee, which develops predisposition. ible to say, for the dose varies according to individual alcohol. We know, for example, that insomnia which When this abuse begins, and at what amount, it is imposs-Chronic Coffee Poisoning. - There seems to be a

a series of isolated cases reported especially in France and in the United States. The theses of Boucard (1899) and six cases of chronic coffee poisoning. In 1895 Gilles de of Rheims, in which the principal manifestations of coffee moire, which was read in 1885 before the Medical Society of chronic coffee poisoning is of modern origin. it really can be held responsible. effects, the more careful observers, such as Lemery, in tacked coffee and accused it of a number of imaginary la Tourette and Gasne reported two cases to the Medical observations. fundamental research on this subject is Guelliot's Me-1702, had recognized the principal disturbances for which Recently a German physician, Roettger, undertook an Bonby (1905) represent good synthetics of this question Society of the Paris Hospital. To these must be added In 1893 Norman Bridge, in the United States, reported poisoning in the working women of Essen, in Westphalia. poisoning are clearly described, from seventeen personal A long time ago, when those who systematically at-Four years later Mendel studied coffee Yet the scientific history

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confreres, and confirmed the results of the preceding authors. investigation upon the abuse of black coffee among

reflect that there is an analogy of action between the two others were able to show the origin of the disturbances really due to alcoholism. By simply stopping the coffee observers have attributed to coffee poisoning what was substances. It is possible, however, that in certain cases those of alcoholism, which is not astonishing when we character. In fact, many of these symptoms resemble chronic coffee poisoning are digestive and nervous in in chronic alcoholism, the chief disturbances

which we are about to discuss.

or the soles of the feet, his sleep is troubled with dreams often has vertigo, which sometimes is severe and leads tion of ants, especially in the back and shoulders. especially facial, and also intercostal and gastric, etc. recurring in attacks, sometimes at night; of neuralgias, ognomy. and brilliant eve, a shifting expression and anxious physiusually thin, with drawn and aged features, dilated pupils tired before he gets up. One of the most constant symptimes awakens with a start. In the morning he is always to a fall. When he goes to bed he has cramps in the ankles He complains also of aching pains, tickling and a sensamuscles of the face, giving rise to a certain amount of fingers, but sometimes involving the tongue, the lips, the toms is a slight and rapid tremor, usually limited to the which partake of the nature of nightmare, and he somegerated. The intelligence is slow, the patient's character, is sometimes unable to work without breakfast in the morntions and by depriving the patient of coffee, so that he disturbance in speech. This tremor is increased by emopressionable. In brief, it is the condition of irritable position is especially shifting, and he is extremely imthe stimulus of the coffee is lacking. The patient's dissad, bitter or depressed, hesitating, cowardly, so long as the reflexes usually remain normal or but slightly exag-Very frequently there is a cutaneous hyperesthesia, but The subject of chronic coffee poisoning is pale and Sometimes he also has sudden muscular contractions. He complains of headaches of a variable type;

> of Groix, where there is a great deal of coffee drunk. there is an extraordinary amount of hysteria on the Island there is not infrequently hysteria, and, according to Vincent, weakness of neurasthenia. In those who are predisposed

mental reproduction with caffeine by Lissauer failed. abuse of coffee favors the development of arteriosclerosis accelerated. cold in the limbs. The pulse is sometimes slow, but usually of heat, sweats, swelling of the veins, or a sensation of (Romberg, Rosenbach), although the attempts of experion exertion, and vasomotor disturbances, such as excesses intermittences, attacks of palpitations, with or without disturbances of rhythm or On the part of the circulatory apparatus, there are There seems to be no doubt that the chronic precordial anxiety, dyspnœa

ternating and hæmorrhoids. On examination his tongue of chronic coffee poisoning. Sometimes there is also symptom is very characteristic of the flatulent dyspepsia of gaseous eructations. According to Vincent, the latte of a sensation of weight or cramps in his stomach ing; his appetite is poor, especially for meat; he complains coffee beans all day long. has been observed by Fernet in a woman who chewed with radiations into the shoulder. An ulcer of the stomach easily. There is also pain in the right hypochondrium, is found white and coated, the stomach atonic, splashing nausea, vomiting, constipation or diarrhœa, at times al-The patient has a bad taste in the mouth in the mornand

suffering from coffee poisoning whom he had observed considered as a cause of sterility, for the eleven women an emmenagogue action, and it is said in some cases to were mothers of twenty-six children. amenorrhœa. Yet, according to Guelliot, it cannot be produce leucorrhœa. In the long run it might cause bodies, to favor the formation of gravel. Coffee also has but it is said also, because of the richness of coffee in purin Chronic coffee poisoning produces a distinct polyuria

action. This has been known for a long time by the Orientals, and was confirmed by Louis XIV by observations upon himself. In man, coffee is well known to have an anaphrodisiac The Princess Palatine wrote that

Coffee and Tea Poisoning

abuse of coffee. in large amounts and had arrophied testicles and was age who for three or four years had been drinking coffee aphrodisiae known. Boussingault held the same opinon and Trousseau declared that there is no more potent anindicated for Catholic priests. The frigidity of Frederick coffee makes people chaste and was the drink, above all Certain cases of prostatitis were also attributed to the Boucard cites the case of a young man of twenty years of Linne called the infusion of coffee "potus caponum, II and Fontenelle was attributed to their abuse of coffee Guelliot reported several analogous cases

change in the form of the eruption, and produces acute exacerbations in chronic skin diseases. Perfetti reports ritus of the forearms, the thighs and the legs, or the chest. of the anus and vulva. In other cases it gives rise to pruquality. On the following day, of the twenty women with voted for coffee, which was then given them, of very good offered them their choice of champagne or coffee. They purpose of presenting a bouquet to the chief of the service, the wards of the Broca Hospital clubbed together for the in his thesis the following history: The woman of one of start, it increases the pruritus. Sometimes it leads to a are not ordinarily so, or, when they are itching from the Coffee renders certain skin diseases itching when they inflammatory diseases of the skin, five developed acute M. Brocq, in honor of his birthday. In return the latter Coffee affects the skin. It produces pruritus, especially

were weak and thin and abnormally irritable. This is It has been said also that the children of coffee drinkers going too far in the analogy between coffee and alcohol. cancer, has been described. It is possible that this is complexion, and mental weakness, dyspepsia, emaciation, exacerbation. A cachexia due to coffee characterized by physical with a yellowish tinge resembling that of a pale

fore, analogous to those of alcoholism, and when both coffee and alcohol are used in excess, it is difficult to say possible, but requires confirmation. Most of the symptoms of coffee poisoning are, there-

> the case of wine drinkers. curate in the case of the drinker of whiskey than it is in a particularly brilliant look in the eyes, distinguish caffeism from alcoholism. This distinction, however, is less acthe coffee amblyopia of some authors is not due to nicotine admitted than that of alcohol. The abuse of tobacco below. According to Guelliot, emaciation, together with in view of the case of tea blindness which we shall report and alcohol. is also associated sometimes, and it may be asked whether the same person, and the abuse of coffee is more willingly abuse of coffee and which symptoms are due to coffee. Unfortunately, The question may be reserved, however, alcohol is frequently associated in

or after taking too much tea or tea too strong, the phenomena sometimes, in novices, or in persons particularly sensitive, not inebriate. The symptoms may even go further and land, in spite of the old saying that tea cheers but does become truly pathological. Epidemics of tea drunkenness become menacing. had been described in certain large industrial cities in Engtea produces a slight amount of cerebral excitement; the face becomes animated and the mind becomes alert. But Acute Tea Poisoning. - In small or moderate doses

disappeared at the end of twenty-four hours. to 36°, with very scanty urine. All these phenomena had then irregular, uneven, slow, and a fall of temperature cold in all the limbs, small pulse, which was at first rapid, trollable vomiting, intense headache, with sensation of tion of extreme faintness and pallor, then with an inconan hour's infusion she was told to drink this almost black poured upon 300 grammes of black tea, and after half to be given. By mistake 300 c.c. of boiled water were cancer of the stomach and to whom a test breakfast was little convulsive movements of the limbs, with a sensaand bitter brew. She was soon seized with tremors and woman of sixty-five years of age who was thought to have In a case reported by Spillmann the patient was a

acute tea poisoning may give rise to uterine disturbances, as in the case reported by Lortat-Jacob and Sabareanu. In younger women, during the age of sexual activity,

symptoms, such as excitement, tremots, cramps, dyspnoca, one glassful, and each was seized with various nervous is, leaves particularly rich in theine. Each woman drank with young leaves gathered at the first crop in May-that entire glass of tea. carriage, which began even before she had drunk the other woman, who was five months pregnant, had a mishad continued to flow abundantly for half an hour. Anended twenty-four hours previously, had reappeared and taken with uterine cramps, which they compared to labor painful palpitations, verugo, but, in addition, each was Tokio, invited three nurses to tea. He made an infusion An orderly in the Laennec hospital, who had come from pains. One of them stated that her menses, which had

of Berlioz that caffeine in toxic doses produces a marked This observation is in confirmance with the statement

ingestion of the pelvic organs.

particularly in America, by Morton (1879), in tea tasters, Since then, Wood, King and Lauder Brunton have added he was inspired by the work of the two authors just named and later by Bullard, in habitual tea drinkers. In France. from the prolonged abuse of tea have been described Eloy devoted an article to this subject in 1886, in which Chromic Tea Poisoning. - The symptoms resulting

and later, of depression (headache, excitement, hallueisymptoms that are closely identical to those of coffee poisonto the study of this question. taste in a servant girl, who had become accustomed to eat a half a pound of coffee daily and who exhibited sympand sensory disturbance which, no doubt, are of hysterical cramps, tremors, then neurasthema, etc., and even motor nations, vertigo, insomnia or disturbed sleep, neuralgias, not improve when tobacco and alcohol were removed who had been suffering from a severe neuralgia, which did but which disappeared when tea was no longer taken. toms similar to those of delirium tremens. The reports On the other hand, Slavrer, reported a case of perverted The prolonged abuse of tea gives rise to nervous They consist of phenomena of cerebral excitement Lauder Brunton reports the case of an officer

> rôle among the causes of mental disease in that country to of the insane asylums of Ireland attribute an important Coffee and Tea Poisoning

the brain in tea drinking has also been noted. the abuse of tea. The frequency of arterio-sclerosis of

drinkers. a special condition of the teeth have been observed in tea has been noted. Finally, a tendency to diabetes, and tea drinkers. Tea also produces constipation, some-times even intestinal obstruction (Wood). In tea tasters, stomach is frequently met with in poor and ill-nourished of its tannin. It has even been stated that ulcer of the of the throat, loss of appenie, dyspepsia, with flatulence, enlargement of the liver and sometimes atrophic cirrhosis with or without pain in the stomach, probably in virtue and cardiovascular apparatus. hand, the latter seems to affect more markedly the digestive poisoning are less marked in tea poisoning. On the other The cutaneous and genital manifestations of coffee Tea produces a dryness

or without disturbances of rhythm, and also dyspnæa and angina pectoris. the abuse of tea produces attacks of palpitation, with Stokes, Morton, Potain, Huchard have found that

duce deafness (?) and loss of taste and smell (?). man had been taking, on the average, twelve large cups which had resisted the withdrawal of tobacco, but which of tea daily. had disappeared rapidly when tea was suppressed. been complaining of a gradual enteeblement of vision can produce a toxic amblyopia. Morton records visual a man aged forty-six years, who for several months had disturbances in tea tasters. Like tobacco and alcohol poisoning, tea poisoning The abuse of tea has also been said to pro-Campbell cites the case of

gastro-intestinal troubles. there are tremors, and in one-half of the cases there are in three-quarters there are palpitations; in two-thirds are noted; in four-fifths of the cases there is headache; up the relative frequency of these various symptoms. nine-tenths of the cases, neuralgias (especially facial Wood, on the basis of twenty-five cases summed

There has also been described a cachexia due

occur in the most severe lorms in tea tastets. direct action, tea poisoning may also indirectly influence to the cachexia of coffee poisoning. In addition to its the course of certain diseases. Thus, syphilis is said to poisoning, with premature sending, which is analogous

regarded very seriously. Certain crusades directed toward than alsoholism, these two forms of poryoning should be coffee and rea poisoning as relatively less to be feared gerous than that of alcohol and that their abuse is less was a woman affected with cafeomania prominent members of the Norwegian temperance society have been founded in that country (Lewin). One of the has been carried to such an extent that anti-coffee societies reserve. In Norway, for example, the abuse of coffee in drunkards should, therefore, be regarded with some the substitution of coffee or rea in the place of alcohol apparent and less repulsive, and while we may consider with Love that the "buse of coffee or of tea is more dan-You have seen, therefore, that while we cannot agree

or a tea hend, if we try to replace alcohol by coffee or tea social causes which make a drunkard will make a coffee thing is a question of amount and the same moral and dose alone determines the question of healthfulness. Everything as a healthy beverage containing alcohol. times concerning alcoholic drinks. There is no such I will repeat again what I have already told you several

who, though a great coffee drinker, died almost a centenarian coffee in active principles; the quantity employed for the cording to a series of factors: the richness of the tea or more less marked symptoms. dose of one or two cups of coffee will suffice to produce slow poison"), there are other persons in whom a daily (which made him say: "If coffee is a poison, it is a very or less nervous temperament of the subject; a more or infusion and the duration of the latter process; the more While there are some examples, such as that of Fontenelle, less active life and a more or less sufficient supply of food With regard to the dose to be allowed, it varies ac-

recognize their cause, and it is also important to bear in It is necessary to know these symptoms in order to

> headache or a rebellious neauralgia; in another, it is a pruritus; in a third, vertigo and palpitation; in a fourth, a single symptom appears. Thus, in one patient it is gastric troubles. itself in its complete form, but that very frequently only poisoning, which we have drawn above, never presents must also know that the clinical picture of coffee and tea diagnosis of neurasthenia or arteriosclerosis is made. to alcoholism or to tobacco poisoning, or else the vague and tea poisoning. Often the symptoms mind moze than is done usually the frequency of coffee are attributed

stipation are generally the most rebellious symptoms. effects of this removal are felt. The tremor and the con-In some cases it takes several weeks before the good ing, it will naturally consist in the removal of the cause With regard to the treatment of coffee and tea poison-

tagonist of coffee. these forms of poisoning. The symptoms may, however, be combated by appropriate medicines, such as arsenic, coffee is really the method of choice in the treatment of maniacs. There is an extreme excitement, insomnia, laxatives, etc. last only a few days. The sudden withdrawal of tea and But these symptoms are not in the least dangerous and languor and sometimes hysterical disturbances (Wallian). a torturing headache, sadness, terrifying thoughts, hebetude, under similar circumstances in alcoholics and morphinohave been described, which remind us of those occurring drawal of tea or coffee in habitual drinkers of these beverages, Certain unpleasant results, due to the sudden with-Trousseau regarded valerian as the an-

not favorable as regards digestion. It is important to who are accustomed to real coffee, and some of them are malt, of acorn coffee, etc., they are not satisfying to those garding the substitute for coffee, such as the coffee of which seems to me based upon a wrong principle. this stimulus. I would not recommend this method, order that the patient may not be suddenly deprived of caffeine, to be used in place of the usual stimulant, in of coffee to the extractives and suggested injections of Some authors attribute the unpleasant symptoms

employ mental therapeutics upon the patients, in order

ually getting more and more common in all classes of soconstitutes a part of the abuse of stimulants which is gradto avoid relapses into the habit. nervousness of our age and of the excited existence which Fernet, the abuse of coffee and of rea, like that of alcohol, to enable us to lead a life that is getting to be less and lants? It is logical that we should seek artificial means life, makes us look more and more for all sorts of stimuthat this need for feverish activity required by modern we lead. Yer, could one not also claim with Hahnemann less natural. To sum up, as has been shown very justly by M. Fernet regards this abuse as one of the causes of the

some very startling evidence concerning alcohol and two drachms of alcohol can be measured in its narcotic dangers. He says that the effect of as small a quantity as might increase the activity for a brief time it would be and depressive defects. While alcohol in muscular work p god the amount of work performed would be very much followed by great depression so that at the end of a brief tuberculosis steadily increased with the increased consumption to alcohol he referred to the fact that in France serious loss to both. Concerning the relation of conbefore. If his employer gave him the spirits it was a man was unable to perform the same amount of work as reduced to 15.9 units. Therefore, economically, the time, if he took an ounce of rectified spirits this would be figures. A man performing 22.3 units of work in a given same relations were noted between the mortality and the from htty to ninety per ten thousand inhabitants. sumption of spirits. This in the course of ten years rose theory, but one of exact facts which admitted of no other increased consumption of spirits. In this there was no Dr. Claud Taylor of London has recently been giving This difference could be expressed in the following

DISEASE AND MORTALITY FROM ALCOHOL

D. H. KRESS, M.D.

Superintendent Washington (D. C.) Sanitorium

to degeneracy." race, impregnate them with hereditary diseases, and lead life, diminish the physical and intellectual forces of our statement: "It is an absolute scientific fact that alcoholic drinks, more than any other factor, injure our national tion in that nation, drew up and published the following rich, Basel, Leipsic, etc., in discussing the representing the universities of Munich, FEW years ago a number of German scientists chief cause of the existing physical deteriora-

heart and normal kidneys in an adult resident of the city of Munich." excessive beer drinking, "it is very rare to find a normal Dr. Bollinger, of Munich, said that as a result of

considered one of the principal causes of this degeneracy. per cent within the last twenty years. Beer drinking is heart-disease having increased among them by three hundred two, are incapable of bearing arms, the prevalence of in Germany, between the ages of eighteen and twenty-It is estimated that nearly one half of the young men

diseases. On comparing my experience with that of other physicians, I found that they were all having similar amining for life insurance. I passed as unusually good has heaped confirmation upon confirmation. luck with confirmed beer drinkers, and my practice since other, with what ought to have been mild and easily curable called to the insidious effects of beer, when I began exrelating his own observation, says: "My attention was I was amazed to see the whole five drop off, one after anin the best of health, and to have superb constitutions. risks five Germans, A physician in one of our large American cities - young business men, -- who seemed

you that the beer drinker seems incapable of recovering "Any physician who cares to take the time, will tell

from mild disorders and injuries not usually regarded as of a grave character. Pneumonia, pleurisy, fevers, etc., seem to have a first mortgage on him, which they foreschose remorselessly at an early opportunity. . . When a beer drinker gets into trouble, it seems almost as if you have to recreate the man before you can do anything for

Heart-disease and kidney disease have been rapidly on the increase not only in Germany and among the Germans, but in all civilized nations, during the past twenty mans, but in all civilized nations, during the past twenty mears. In America the increase in these diseases has been years. In American cities from heart-disease having inmortality in American cities from heart-disease having increased about twenty per cent over the preceding year.

There has been almost a corresponding increase in the number of deaths from pneumonia and cerebral hemorrhage, or apoplexy. Tissue deterioration and the increased blood pressure resulting from the use of alcohol are without doubt the two chief causative factors in this are without doubt the two chief causative factors in this

are without doubt the two chief careauchies high mortality rate from the diseases named.

Alcohol diminishes cell activity, and causes fatty de-

Alcohol diminishes cell activity, and charactery generation of the heart and other tissues; in appearance, therefore, the user of alcohol may be a picture of health, therefore, the user of alcohol may be a picture of health, therefore, the user of alcohol may be a picture of health, therefore, the has an abundance but in reality he is a degenerate. He has an abundance vitality of his tissues renders him incapable of resisting vitality of his tissues renders him incapable of resisting germ diseases. If he does not die of heart-disease or germ disease. If he does not die of heart-disease or spoplexy, he is almost certain to succumb should he be apoplexy, he is almost certain to succumb should he be stricken down with pneumonia, cholera, or some other stricken down with pneumonia, cholera, or some other the liver cells are gradually destroyed and replaced by an overgrowth of connective tissue, is frequently due to alcohol. These changes result from the irritation pro-

duced by the alcohol.

A few years ago a measure was passed by the Chamber of Deputies of France to rescue the French people from the of Deputies of France to rescue the French people from the perils of alcohol. In all parts of the city of Paris, among other official placards and notices, were seen large white posters with clear, black type, headed "ALCOHOLISM—posters with clear, black type, headed "ALCOHOLISM" with the posters with clear, black type, headed "ALCOHOLISM" with the posters with clear, black type, headed "ALCOHOLISM" with the posters with clear, black type, headed "ALCOHOLISM" with the posters with clear, black type, headed "ALCOHOLISM" with the posters with the p

that alcohol produces quickly gives place to nervous depression and weakness. IN REALITY, ALCOHOL IS USEFUL TO NO ONE: IT IS HARMFUL TO ALL." The evils which the habit of drinking brings in its train were catalogued. They included "loss of affection for one's family; forgetfulness of social duty; distraste for work; misery, crime and all kinds of physical maladies." The concluding words were as follows: "With reference to the health of the individual, the existence of the family; and the future of the country, alcohol is one of the most terrible of scourges."

In France the slight rise in the birthrate during the past two or three years is attributed to the fall in the consumption of alcohol as a result of the efforts on the part of the nation to inform the people of its injurious nature. It is a fact that children begotten by drinking parents are usually weaklings and defective in both body and mind. Mortality among such in infancy is great. If they survive infancy and reach the age of youth they are apt to succumb to tuberculosis. This weakened heredity from drinking parents is one of the chief causes of the prevalence of this disease among our youth.

The degeneration evinced by the declining birth-rate, and which in most of the European countries made necessary the appointment of commissions to investigate its causes, may be attributed chiefly to the free use of alcoholic beverages; for the more temperate Mongolians and Mohammedans, instead of having a diminishing birth-rate as we do in America and European countries, show a constantly increasing birth-rate. Degeneracy among them is not nearly so marked, and the diseases which prevail in America, such as heart disease, pneumonia, cerebral hemorrhages, and heat stroke are very uncommon among them. This is certainly significant. The war between the Russians and the Japanese

The war between the Russians and the Japanese affords another striking example of the value of abstinence from alcohol. It shows that in time the degenerate alcohol-consuming races will be overcome and eliminated by the more temperate races. In view of these facts, more should be done to make known the dangers which threaten us

as individuals and as nations if the use of alcohol is continued in the future as it has been in the past. A united educational campaign should be inaugurated, the aim of which should be to make known to old and young, by lectures in halls and churches, by simple talks to children in our public schools, and by the distribution of suitable hierature, the injurious effect of alcohol on body and mind.

The infrequency of delirium in beer drinkers is explained by Dr. Gudden, on the ground that such drinkers die before reaching the delirium stage, from heart disease, tuberculosis, or nephritis; or else, on account of the setting in of these diseases the subjects are obliged to abandon or greatly reduce their beer allowance. Dr. Gudden reports two cases of frenzied hallucination in alcoholic subjects, one 30, one 42 years of age, both of whom had drunk beer, one 30, one the properties of the editor thinks is were a long time in recovering, which the editor thinks is characteristic of this class of beer patients, because it takes beer longer than it does whiskey to bring about the same mental disturbance, and the whole organism becomes more tall disturbance, and the whole organism becomes more tall disturbance, and the whole organism becomes more tall disturbance.

Compared with the whiskey drinker, the beer drinker, on account of the greater dilution and the smaller amount of fusel oil, is less liable to injury only so long as the amount of alcohol he gets in his beer does not approach that taken by

the whiskey consumer.

Rubin, experimenting with alcohol, chloroform and Rubin, experimenting with alcohol, chloroform and ether, in the laboratory of Rush Medical College, found that each of these agents prevented the leucocytosis following the injection of cultures; and that the animals to whom either of these three drugs were given died, in every case, while the control animal survived. He also found that these drugs lessened the ability of the leucocytes to take up the germs which they met in the blood.

In 577 epileptics received at the Craig Coloney Hospital at Sonyea, New York, during the year of 1907, 259 showed a history of inebriety and alcoholism in the parents, 67 cases indicated insanity, and epilepsy in the parents

GELSEMININE IN THE MURPHINE HABIT

BY WILLIAM F. WAUGH, M.D., CHICAGO, ILLINOIS

HAT there is not and can not be any such thing as a specific remedy for a disease known as the morphine habit, is well shown by the fact that for every individual case described I have

presented a new remedy.

The one thread running through the whole series is elimination. In every case there is first and always need for this process. The bowels are always loaded, the liver engorged with toxins retained in its cells, and every cell of every tissue in the body has its share of toxic elements similarly stored. Whenever the morphine inhibition is raised the cells commence to pour out this store into the blood, where it becomes active; and its action is manifested on the weakest portions of the body. Each new case strengthens thy belief in this as the correct view of the pathology of the malady, as explaining the nature of the "withdrawal symptoms," and as pointing to the true therapeutic indications.

Here we encounter the first difficulty—the toxins stored in the body appear to be exceedingly diverse in their nature, and only to a limited extent are the evidences of their activity similar. We find indican in the urine as a rule, we see evidences of the action of mercaptan in the profound melancholy, and certain manifestations such as sneezing, aching, crawling and other paresthesias are generally present, and these are reduced or dissipated by elimination through the bowels and skin. In fact all the manifestations subside in a measure when these and the kidneys are brought up to their highest activity and maintained there. Nevertheless, in no case will this elimination suffice to carry off all the morbific elements and prevent all distress. There always remains a residuum which is manifested by some annoying symptoms.

which is manifested by some annoying symptoms. In the series of cases studied by the writer during the past year these conditions have existed: I have taken

a single case, placed the patient in charge of an experienced and amply qualified nurse, with no other patient about, and given my own attention exclusively to the study of this one case. To the pathologic conditions presenting I have sought to apply the results of studies in drug-action made during the past ten years especially. The method is of course too expensive for ordinary persons, but to those willing and able to pay for such special advantages the results amply justify the cost. I may add that the opportunity for the study of drug-action and of toxin effects likewise justifies the expenditure of my own time.

In cases already reported we have found indications for the administration of such diverse agencies as pilocarpine, physosigmine, solanine, hyoscine, maté and always emetine, the best universal incitors of the eliminants we have yet tried. In fact we have settled down to a routine use of emetine, saline laxative and colonic flushing during the early part of the treatment in all cases. One presented conditions demanding the specific influence of verature, and several were distinctly benefited by cactin.

The last case was one of the sort we like to treat—a man of strong principles, who had fallen into morphinism by endeavoring to hold up against a dysentery and continue his work as a physician in a country district. Finding himself in the toils, he determined to break away, because he "always despised a liar and a coward, and couldn't stand it to know he was doing a thing he could not do openly." He could not look his wife or child in the face without feeling guilty.

The two principal elements of suffering when he had tried to stop the morphine were sweating and dysentery; so he was given agaricin, gr. 1-12 every two hours, with emetine, gr. 1-6, and a small dose of saline laxative at the same intervals. Every morning the large bowel was irrigated with normal saline solution, comfortably warm. His daily dose of morphine was about twelve grains, and he was given half-grain hypodermics every time he asked for them, the reduction being automatic, as his need for it lessened. It was the sixth day before he ceased to need or request any.

In this case a "crisis" did not occur, and the usual discharge of bile was spread over a week or more. There was a large impaction that gradually broke up, and several times an extra enema was required to relieve headache or muscular aching. Neither sweating nor dysentery occurred. Hyoscine occasionally was employed to relieve the nervousness, that indescribable restlessness for which patients usually say acute pain would be a relief, but he could not take doses larger than gr. 1-400 without distress and a tendency to delirium. Once a dose of gr. 1-50 quieted this, but again it aggravated the difficulty. Anyhow, this remedy was not indicated by the symptoms. These, during the worst periods, were fulness of the pulse with determination of blood to the head, temporal arteries full, strong and throbbing, eyes bright, pupils slightly contracted, face flushed, motor unrest and a little tendency to delirium.

and no drooping of the lids occurred to denote toxic action when indicated by symptoms such as above mentioned during the subsequent days, and it never failed to relieve of the gelseminine. This remedy was given when needed lowing his pulse was nearer normal but still a little too full, a. m., and had a similar dose; slept till 5 a. m., and had a our disposal. He received a hypodermic injection of gr. it to be more directly indicated than any other remedy at As a rare exception, no special benefit in this case followed third, which held him till morning. During the day fol-1-50 at 10 p.m. and went promptly to sleep, awoke at 2 tuse swearing led me to select as the specific agent gelsemithe use of calomel. but the irritability of the large bowel and tendency to pro-This state might have been relieved by veratrine, We had never employed this before, but believed

This man was never deprived of nor refused morphine—he just ceased to need it, and the suffering was relieved by other agencies. The prolonged hot bath proved grateful. When the hypodermics had been discontinued he felt weak, subjectively, though his pulse was still full and a shade too strong; rate 75. The weakness seemed to be located in the muscles, and we gave him for this macrotin, gr. 1-6 every hour till the soreness or weak sensation "ib-

sided, which required about six doses a day. The wolfish appetite that follows crises did not appear in this case, and small doses of rhubarb, hydrastis, ipecac, soda and sodium sulphocarbolate were given for two days with good effect. Before the end of his second week this man was fully convalescent.

Now this special point I want to make from this case is, not the use of geleseminine or any other remedy, but the impossibility of now or ever finding any specific remedy for this disease—or any combination of remedies. If you treat these cases you've got to be your own doctor, and do your own prescribing, for each and every case, every day.

toxic condition which vitiates the nutritive energy of the that alcohol is as active a cause as syphilis, producing that a place next to syphilis. While excessive alcoholism was with injury and other causes was present in 16 per cent. gether in 24 per cent of all the cases. Alcohol associated use of spirits. Among sailors 60 per cent were alcoholics. ship carpenters and gardeners were addicted to the excessive as quarrymen, bakers, silversmiths, electricians, hotel keepers, houselings and all the persons whose vocation was put down masons were addicted to alcohol. So per cent of all the cupations 80 per cent of mechanics and 75 per cent of the predominant alcohol and syphilis stand first. Among oc-Conn. Hospital for Insane. In the causes which seem to be etiology of this disease noted in 172 cases treated at the nervous tissues, and produces degenerations of the neurons about 26 per cent above the average. From this it is clear present in over 60 per cent of all the paretics, and this is per cent of all the cases. Alcohol and syphilis existed tocases of paresis. Alcohol existed alone as a cause in 20 He observes from a statistical standpoint alcohol occupies Excessive alcoholism was present in over 60 per cent of all Dr. Diefendorf gives a very interesting study of the

ALCOHOLIC INSANITY

BY MARK F. TONER, M.D., HANFORD

Read before the San Joaquin Medical Society at Fresno, Cal.

LCOHOLISM is a term used to denote various pathological phenomena and attendant symptoms, the result of the introduction into the system of excessive amounts of alcohol. As the subject of my paper will indicate, it is the attendant symptoms that I propose to discuss, devoting more particular attention to their medico-legal aspect.

and delerium tremens. In acute alcoholic insanity alcoholic insanity, or, for those who wish it, inania-a-potu cation can be, I think, simplified into acute and chronic of medical men to acquire anything like a clear conception off into divisions and sub-divisions, so numerous and conare, when taken with the history of the case, sufficient for dition lasts a day or so. These cases usually have some hereditary taint." Though not so complex, this classifdue to actual delusions and not mere passive terrois are cholia chronic dementia and oinomania. In the first hominsanity caused by alcoholism are acute mania and melanof the subject. Dr. Curnon (Quains Med. Dictionary, under one head - delirium tremens, - while others rush cause a train of symptoms, differing very greatly from those alcohol taken into the system within a short period of time find symptoms that, though not altogether pathognomonic, indecent acts due to uncontrollable impulses. of alcoholic excesses attented with violent, strange or even indecent acts due to uncontrollable impulses. This conadded to other signs of delirium tremens. The third form icidal impulses, and in the second strong suicidal tendensies 8 Ed.) gives the following classification: "The forms of plicated, that it is almost impossible for the vast majority peculiar to each; yet some authors class all manifestations and that these conditions have a certain number of symptoms produced by lesser amounts over a longer period of time, 'oinomania' is where the victim breaks out into paroxysms We find that all authors agree that large amounts of

crime and is not good grounds on which to base a defense. Such being the case the defense must obtain all facts corintoxication, voluntary or involuntary, is no excuse for existed, then truly the way of the medical expert becomes aid greatly in proving irresponsibility in the defendant, cases entire absence of motive could be shown and would of very great importance to the defense. In the above the prosecution of a case and its absence would therefore be to whether or not the assailant is responsible for his act second instances it is not such a difficult matter to decide as had previously offended or injured him. In the first and other hand he may vent his wild rage upon some one who for whom he had always shown great love. But on the ing develop a violent homicidal mania, selecting for his comparatively quiet condition, the case may without warndiagnostic purposes. The onset may be sudden from a a thorny path. but on the other hand, where it can be shown that a motive victim an entire stranger or perhaps one of his own family, able to distinguish between right and wrong. Yet at the unsoundness of mind resulting from alcohol as such. I have no doubt that a man may be truly insane and yet be mind, and though the law loes not recognize simple intoxiand there some point on which to base a plea of unsound hereditary taint. If you are fortunate you will find here aberration; then as to previous character and disposition associated with him have noticed at any time any mental food taken, amount of sleep, as to whether or not those debauch as to quantity of alcohol consumed, amount of nected with the defendant during the whole period of his The law regards the motive as a very important tactor in complished than he may relapse into his former quiet conbecomes absolutely irresistible. a degree of frenzy, where the impulse to revenge the wrong or the amount of humiliation he has sustained that he reaches fancied injury, he may so exaggerate the extent of the injury same time should he be laboring under a sense of real or cation as a cause sufficient to acquit, it does recognize the both when sober and intoxicated; then look for a possible He may or may not have a knowledge of what The law states very clearly that alcoholic This is no sooner ac-

> necessary expert testimony. exhausted condition of the whole economy, mental and physical, presenting a truly abject picture. The condition of alcoholic insamity is of rare occurrence in constant inebt) of these unfortunates is usually so potent as to render unphysical, presenting a truly abject picture. fusions, etc., every symptom tending to show a worn-out a furred, tremulous tongue, weak pulse, uncertain gait, denote a condition of almost complete nerve exhaustion. alcoholic insanity, we have those symptoms, which clearly ates. We find a full bounding pulse, strong muscular acthe defendant was not responsible for his act. This form recently tried in our courts and I am glad to say the jury occurred during his violent manif. A case of this kind was general tremors with suicidal mania, hallucinations, deby toxic quantities of a stimulant. While in the chronic non and other symptoms of a nervous system overwhelmed gave due credit to the expert testimony and decided that

on conditions of despair and suicide. cult to trace the former history of many of these suicides, who had used spirits or drugs to great excess. It is diffiin Philadelphia twelve were evidently inebriates or persons took their own lives. In a study of twenty cases occurring conduct committed while under the influence of spirits, were inebriates or persons who in despair for outrageous the conditions of these persons show that a large per cent than in Massachusetts. Some inquiries made concerning sixty-nine to ninety per million of inhabitants. During an active and common cause of suicide. conscious from a blow, and realizing that he had probably risen from 63 to 103 per million, a much greater number this period the statistics of Connecticut show suicides have thirty years show that the number has increased from for a year or so after. This would indicate that alcohol is the following: a man while intoxicated made his wife unbut it is evident that alcohol is a very large factor in bringing killed her, drowned himself and his body was not recovered The statistics of Massachusetts of suicides for the last Thus in a case like

ON CERTAIN ASPECTS OF THE TOBACCO NOLLSTINÖ

BY MATTHEW WOODS, M.D., PHILADELPHIA

the susceptibilities of the many, addicted to and perfect freedom, because of fear of impinging upon is difficult for a man to write about tobacco with

unconsciously hart by its use.

self-evident, visible as it were to the naked eye; but when to these are in the enfeebled minority, their deterioration alcohol, or other narcotics, because the people given over we talk of the evil effects of tobacco, especially the ulterior by the habitual use of opium, chloral, cocaine, morphia, eccentricities of thought, when discussing the harm wrought vast multitude lulled into pseudo-content or elated into resulting from its use, we encounter the opposition of the moral and psychic, rather than physical changes frequently the very medium we condemn. artificial states of morbid superiority and indifference by We are free from adverse criticism and charges of

of forbearance, it has at last been ignominiously expelled as a therapeutic agent, that after repeated trials and decades sense, making it necessary or proper for us to recommend rection, since the drug has no beneficial use in any medical the note of warning at all, it must be in this dangerous di-Indeed, so worse than useless is it now known to be And yet, as conservators of public health, if we sound

from the pharmacopæia of every civilized land.

people from getting too stout" or "stout people from getting too lean." It has no "power to preserve the teeth from not "a disinfectant." It does not "enable the student decay" or to "neutralize the poison of contagion." It is morbific odors and vapors of the dead-house" as a recent because of some 'mysterious power' it exhibits over the to pursue his studies with safety in the dissecting-room indigestion, or any other pathologic condition." And writer has asserted. It is not "a remedy for asthma, or It does not aid digestion. It does not "prevent lean

> bilities of recovery in many other diseases. on the part of the patient also limits and diminishes possinervous system, and mucous membranes, while its use at times produce outright, serious disturbances of the heart, larly supposed to do, while we positively know that it does hundred and one harmlessly beneficent things it is popuindeed, it may be safe to say that it does not do any one of the

guor or repose which has great charms for those habituated corporeal inquietude, and produces a state of general lanmoderately taken, quiet restlessness, calm mental It does, however, according to the Dispensatory, "when

to the impression."

justihable. a procedure, from the medical viewpoint, generally unthe result of the disease while leaving the cause untouched; inquietude - with a narcotic, that is to say, deadening be like treating the mere symptoms — mental and corporeal To employ tobacco, though, as thus suggested, would

of the pathologic state that thus demands constant drugging other, is a man rather who needs a physician to cure him effects of a narcotic, whether it be tobacco, opium, or any stantly, demands for its amelioration the soporific and lethal for a man whose abnormal condition, periodically or conof these monsters of unrest to their lair and destroy them, How much better it would be to track the remote origin

such an inconsistency, especially on the part of medica This is one of the reasons why the tobacco habit is

In the other property of the poison, the production of "repose and languor," lies one of its chief dangers, difficulties and responsibilities that ought to be corrected his mouth to shift his responsibilities to his wife. in some other way. It is easy for a man with a pipe in elicitors of narcosis, it gives the user tranquil escape from for in this way it is, that, like morphia, chloral, and other

circulatory functions." ness, nausea, and general depression of the nervous and gives rise to confusion of the head, vertigo, stupor, faintpoison, which is locally irritant. In large quantities it The same authority says that "it is a powerful sedative And further,

foundation of serious nervous disorders." produces emaciation and general debility, and lays the When employed in excess, it enfeebles digestion,

duced by it, and even insanity has been ascribed to chronic "Amauroses and color-blindness are occasionally pro-

tobacco-poisoning.

to overwork, the excessive use of tobacco has certainly "In many cases of nervous break-down attributed

been an important etiological factor. oration it works upon the functions that make for health, So much for its evil physical effects, and the deteri-

as recorded in our national therapeutic standard, the to the race than those that have to do with mere physical and educational writers; and yet these work greater harm that have not been sufficiently emphasized by medical victim of the tobacco habit, especially during adolescence, United States Dispensatory of mind, alterations of standards of rectitude and chastity, well-being. We have reference to the debauched state growing boys and young men, and evidently also upon the effect that the use of tobacco has upon the morals of dicated by the fact that tobacco is the only traffic that those engaged in the business as manufacturers; as is inalmost universally uses obscenity as a means of furthering There are other injuries, however, inflicted upon the

stock in trade, almost everywhere and in every land. It the sale of its wares. or among your morning rolls; and I am sure you would or baker to conceal pictures of strumpets in tights and with no other, for you would hardly expect your grocer seems to be inseparably connected with the business as be justly indignant if you found that every time your laundry otherwise suggestively attired, in your Saturday groceries man returned your linen he inserted a naked Sappho, or sons and mine even when they are mere boys, and he does bacco merchant does when he sends his wares to your of your shirt or up its sleeve; and yet this is what the to-Salome, or other specimen of erotic nudity in the bosom it, too, with comparative immunity and without effective The suggestive and salacious picture is a part of its

> protest. This moral obtuseness or indifference is one of the peculiar effects that tobacco seems to have upon to invite young men to come and put themselves under the influence of n'cotine in their own malodorous rooms and under their own professorial auspices. The pity of tobacco narcosis, - that they have even been known indulgence in the drug, - so continuously in a condition themselves, in these days, are so vitiated by excessive books and by educators; but, indeed, some educators people and that is not sufficiently emphasized by medical

bacco! It changes thought into reverie," says Victor Hugo. "It besots the nations," says that prince of obuntarnished brain of youth, and does this particular drug this particular paper. I have been appalled by the revethis aspect of the question when I have more space. lations made to me in this direction, and may enlarge upon lations made to me in this direction, and may enlarge "Toparalyze or impair it? This is the question to which would like to attract the attention of the profession in Is there a faculty presiding over continence in the

servers, Balzac.

sense of moral discrimination clouded by the poison it contained the rest was easy, for, when once fallen from vantage of it - and when his will was weakened and his cigarettes, and sent by these traffickers unsolicited? They willing slave of tobacco, whose first impure thought came carefully guarded boy, now anæmic and shattered, the hand and glove. indulgence. The soporific calm and obscene picture are grace, every additional tobacco purchase induced repeated know the relation the one bears to the other and take adto him in an obscene picture contained in a package of Who does not know of some once pure-minded and

young men, utterly depraved, with collections of these In our investigations we have learned of scores of

suggestive pictures among their chief treasures. What physician of experience has not encountered first impulse to unchastity was suggested and encouraged mere lads suffering and ruined by venereal diseases, whose

by the vile vender of the tobacco, pictorially adapted to

the susceptibility of boys.

some physiological reason inseparably united. The subject addicted to the tobacco vice, and the world is but slowly to a great extent to be banished from the minds of youth awakening to the fact that they are kindred vices, for seems too large and important to be discussed in a single Reverence, respect for authority, or social purity seem

alcoholic patients treated in the Ville-Evrard asylum near contain an instructive study of the influence of alcohol 66 3 per cent have committed acts that were socially rebeen mostly deli-jum, hallucinations or dementia. But no destructive or harmful tendencies, their troubles have Paris from May 1897 to July 1906, 33 1 per cent have shown in the development of criminal tendencies. Of the 2,493 crime before they came to the institution. Closer examinaprehensible. Many of these last had been convicted of tuted over 54 per cent of the criminality represented. sui ide and other self-injury. These three classes constisiderable class was composed of those who had attempted portion were vagrancy and mendacity, and the next conlarger proportion were acts of violence, another large protion of the character of these acts shows that by far the remainder were minor and eccentric kinds of crime. Les Annales Antialcoholiques, published by Dr. Legrain,

absinthe, and all those who make their living by these inthe distillers of the north and the wine-growers of the midin ma...ufacturing alcoholic liquors from beet sugar, from with so much opposition from the powerful interests engaged sition to the beet-root industry, promising that if the latter growe, of the midland are reported to have made a propouse of alcohol in mechanical industries. In fact, the winedustries, that attention is being given to stimulation of the land, the rectifiers, the adulteraters, the manufacturers of pushing the use of denatured alcohol in the industries artificial wine the former would give their assistance to would cease to use their products for the manufacture of The movement against alcoholism in France is meeting

MENTAL DEFECTS FOLLOWING THE USE OF ALCOHOL

BY JAMES T. FISHER, M.D.

Professor of Neurology and Lectures on Diseases of the Mind, College of Physicians and Surgeons, Los Angeles

ERE it not for the fact that the science of medicine is attended with phenomena unique and which defy rational solution, the practice of sometimes inexplicable, presenting problems

causation of insanity, no one in position to judge will deny. at this meeting I will discuss only in part some of the interesthas been directed toward the study of this subject, and to their mental condition. under conditions somewhat bizarre, that even the keenest and have his being, manifesting his morbid capabilities poison, and the most potent factor next to heredity in the Alcoholic Insanity and Dipsomania. That alcohol is a ing features of the morbid mental effects of alcoholism, viz at the County Hospital, during the past year, my attention impotency to unravel the pathological mysteries incident medical minds are constantly compelled to admit their the healing art would certainly lose its charm. The alcoholic, for instance, continues to live, move In the wards for the insane

hol had produced changes in the vessel wall and nearly in nearly all the cases. The continuous ingestion of alcoall exhibited an essentially neurotic temperament. A of some vice or disease, particularly tuberculosis. They over 80 per cent. had a neurophathic heredity. In many this is followed by degeneration, either fatty or hardening every organ. The early changes show congestion; later vaso-motor weakness of a greater or less degree was present Some few gave no such history, but showed an inheritance his immediate or somewhat remote ancestors was the rule record sent me from Patton. A history of alcoholism in but from some member of the family or the old hospital instances this fact could not be elicited from the patient, In the examination of the patients it was found that

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theless succumb to its insidious and constant action on system first, last and always is simply that of a poison. otherwise known as sclerosis. The action on the nervous the nerve cells in the brain and cord. Many men offer a great resistance to its action, but never-

amount of sympathy is accorded these poor infortunates, who, through an absolute paralysis of the will have become is, indeed, to be much regretted that such a diminished mental defects that we know are of alcoholic origin. It now make reference, but to permanent and temporary It is, however, not to its influence in general that I

such hopeless degenerates.

herited of acquired weakness of certain neurons leading we are pleased to term idiosyncrasy is in reality an intissues is that they are highly selective poisons. What characteristic of the action of various toxins on the nervous on our many nerve centres. One prominent and general systems very differently and exercises a selective action to a condition of lessened resistance, or of increased Alcohol, like other toxic drugs affects our nervous

predominate, and in others the psychic. The mental disorders arising in the life history of the chronic alcoholic cholic type, for instance, does not differ from the melancumstances are fairly easy to recognize. The melanare distinct and somewhat pathogonomic. These mental overshadow the other changes, while in some the sensory depressive delusions may commit suicide or do violence cholia arising from other causes, and on account of his troubles present certain types which under ordinary cirvulnerability. type of acute mania, the patient is entirely bereft of reason in his abnormal sleep. When the psychosis assumes the to others. The alcoholic somnambulist may steal or kill self or his property and requires the protection of the law and may murder whomsoever he comes in contact with The most common type of insanity due to alcohol is Chronic The alcoholic dement may be totally unfit to care for himfortunately, the name is somewhat misleading as the patient Alcoholic Delusional Insanity of Alcoholic Paranoia. Un-In the average man the motor phenomena largely

> the patient not having been previously regarded as insane rather as an outbreak or episode in a case of alcoholism, alcoholism is chronic, but the mental detangement appears is not insane or violent, except at certain periods. The

some of which were despicable, to verify his suspicions occasions. He was perfectly rational on all subjects exthe mind of the patient. As Spitka has put it, "the combination of the delusions of mutilation of the sexual organs, him, and would resort to all sorts of tricks and expedients, cept a growing conviction that his wife was unfaithful to and standing, and later examined the gentleman on several I was consulted by the family of one of our leading prothat we read of in our daily papers. In the early autumn and are the perpetrators of the tragic and heinous crimes mental strength, or by the assistance of others, and are are able to suppress or restrain their delusions by mere as any one group in mental pathology can prove anything nearly to demonstrate the existence of alcoholic insanity that his wife is unfaithful to him may be considered as so insistently circle around the sexual organs is not apparent; ated with the delusion of marital infidelity or trouble arisof disease. The history of chronic alcoholism was associsomewhat similar and quite pathognomonic of this form will and memory. a loss of mental grasp and a decided impairment of the acter similar to incipient dementia paralytica. There is of the psychic powers and to some extent a change of charfessional men, a man of extraordinary mental attainments delusions of persecution are of the most dangerous types to the object of their wrath. thereby able to cope with their delusions and do no harm Many individuals suffering from this dangerous psychosis with the delusion that the patient's food is poisoned, and This false belief seems to occur with great regularity in the mind of the patient. As Spitka has put it, "the comexcept that possibly it may be due to a failing sexual power. ing in the marital relations. Just why the delusions should from the family, the delusions shown by the patients were examined where I could get any corroborative history of alcoholic insanity there appears a gradual lessening Long before the patient exhibits any distinct stigma In a very large majority of the cases These patients showing

He would tell me with tears in his eyes that he never could find anything to support his belief, but that the horrible suspicion was getting stronger and stronger. Nothing I could say or do modified or changed this dangerous delusion. Though none of his family knew it, this man had for the past year been taking over a pint of whiskey every

not necessarily mean a periodical excess in the use of alcohol, as is popularly believed. Its derivation means and ill balanced nervous systems, plus an alcoholic habit, of a peculiar nature. It is an impulsive insanity with some nervous or mental crash. Dipsomania is a psychosis disappointments and hardships and reverses, without can hardly be expected to go through life with its many or, in fact, to any other drug instead of alcohol. The somania may exhibit itself by recourse to morphine, cocaine, rection, as theft, arson or sexual perversion. The dipthirst madness, and the impulses may take another dian hereditary basis. It is a term often misused, and does excesses than proof of his having a well defined dipsomania. and hallucinations. These are rather the symptoms of his symptoms of the chronic alcoholic and manifest delusions dipsontaniac may by virtue of his excesses show all the result of inherited insufficiency, physical and mental, may The dipsomaniae is a neuropathic individual, who, as the among the periodic or cyclic insanities. But periodicity is obviously great, and its study explains many of the most outflow. The forensic importance of dipsomania is concepts, with the morbid impulses which are their natural become the victim of a series of obsessions, imperative or shorter periods of abstention has caused it to be classed may begin his excesses early or late in life, and may go reference to this feature of the disease. The dipsomaniac peculiar and startling crimes of which we read in the or two attacks in a lifetime. In the cases under the writer's years without having a succeeding attack. The fact that fally press. Time will not permit more than a passing not an essential feature, as a dipsomaniac may have only one the alcoholic or drug excesses occur at intervals with longer These individuals, possessing faulty nerve supply

one of very great importance and value.

notice the attacks occurred from three to five times during the year, lasting a week to two weeks. All cases of true dipsománia have many characteristic features as to onset and duration and subsequent course. They generally begin with a certain amount of mental depression and some ill defined physical distress. Malaise often is a prominent symptom. There is an irresistible desire for intoxication. The patient realizes fully that to drink once means oblivion for many days or weeks. There is always a keen struggle with the will, a strong desire to resist, but to no avail unless the patient puts himself under restraint.

As in other diseases we find individuals who do not exactly correspond to this type, as the man whose life seems to oscillate between what might be termed hard drinking and periods of comparative sobriety and again attacks of insane alcoholism associated with dipsomar to that chronic alcoholism almost invariably leads to moral obliquity and some form of mental derangement. That no man is exempt from this law. That when we hear our patients talk about family troubles, suspicions of wife or husband, in brief, of marital infidelity, coupled with a history of alcohol, we may consider this casual complaint,

The Harrlord Retreat for the Insage reports that 15 per cent of all persons admitted during the year are spirit and drug takers, also that this number did not represent all the cases in which alcohol was a contributory or early exciting cause. In many instances an inherited psychosis from inebriate ancestors developed into insanity in later life. Both of these institutions note the increasing prominence of this as a cause of insanity and both deplore the inability to restrain these people a sufficient time to secure permanent results.

THE JOURNAL OF INCHRETA WE NOT EXPENSIBLE for the altimous and convolutions

Resolutions of Public Septiment

Six years later The JOURNAL OF INERRIFITY appeared, and that inebriety was a disease and that alcohol was a narcouc cohol came into existence for the distinct purpose of proving surely built up a constituency who believed and adopted the it new force and vigor and attracted attention, and slowly and sneers which followed this work in an indirect way, gave have been urged from that time to the present the great central fact of the same views. poison of alcohol and the diseases which followed from it are wrong and destructive, and the theories that alcohol has that our present methods of dealing with a pauper inebriate be controlled and stamped out. There is a consciousness which come from the toleration of alcohol as a beverage can seems to spring from a wide-spread conviction that the evils tation or efforts of societies or special local conditions, but hibitory laws. This is not the direct result of personal agialcohol and wide-spread efforts to enact local option and propeared and is growing with intense rapidity. It is in reality some value as a food or tonic is a delusion, and from this there and mortality stayed. The delusions which have gathered hurrying on to death can be checked, and its frightful disease urging in our journal, that this great army of inebriates rapidly is a reaction and turning to some rational methods for relief and this has taken root and is now bearing fruit. hoods and offices and prove the theories that have been urged thirty-two years to study the question in their own neighborof facts of the injury from alcohol noted in every community not by reformers or crusades of tracts, but by the recognition about the use of alcohol and its traffic are being broken up In a measure there is a recognition of the facts we have been option and prohibition is evidence of this growth. The decreasing number of persons who cast their ballots for local THE JOURNAL OF INEBRIETY has appealed to the doctors for great national consciousness of alarm at the presence of In 1870 the Society for the Study of Inchriery and Al-Recently a new phase of the subject has ap-The contempt, condemnation and bitter

> accumulation and separation of the facts so essential in this of practical everyday science, and the malical man in every a new campaign of hygienic educational teaching along lines Bureau at Boston, Mass. is the great clearing house for the the facts and their dissemination, and the Scientific Federation work. THE JOURNAL OF INEBRIEFY is a great text-book for community is litted by training and experience to carry on this cance and practical bearing in every community. We want measure, but for the accumulation of the facts and their signifito join in this great effort, not for the promotion of any one rational and practical measures. It appeals to every reader this popular sentiment crystallizing in so many ways into times. THE JOURNAL OF INEBRIETY which has been on the era for the prevention of one of the greatest evils of modern and shape the destiny of every individual. There is a revofrontiers of this new land for so many years rejoices to see ment of men and women that is a welcome promise of a new lution in the air, in the community and in the thoughtful judgrecognition of law and the great physical farces which control of opinions, or the views of the victims themselves, it is the treated from the exact conditions present. It is not a question inebriate must be cared for, and his malady recognized and and alcohol must be judged above theory and sentiment a place for the sale of spirits as a beverage must disappear. to huld up all these long years As rapidly materializing into legal measures, for recognition and control. The salvon as to themselves. The proble sentiment that we have been trying assailed, their retaliatory efforts have been destructive and suicidal history of the past, whenever superstitions and will mevitably end in deteat. Thus it has ever been in the to purchase public sentiment and turn it into either directions of erroneous statements and misquotations, as facts, and efforts come. The subsidence of the press, and the dissertmenton miensily and promote the very efforts which they seek to over fenders of alcohol and its traffic by their besterical opposition

Annual Meeting

The thirty-eighth annual meeting of the Society for the Study of Alcohol and other Narcotics, and the study of

inebriety in general, will be held in the patlors of the Auditorium Hotel at Chicago, Ill., June 2d., 3d., and 4th., 1908, from 9 to 11 AM.

This old society which was formerly looked down upon as a group of impractical enthusiasts has now been recognized as something more, and has assumed a position in the scientific world in striking contrast to public opinion of the past.

For many years its annual gatherings were confined to a small group of physicians, whose discussions and papers attracted little or no attention in the general profession. Now that alsohol and its effects are becoming great national hygienic topics, the surgeon, the physician and the laboratory men hasten to put themselves on record as advanced students in this field.

For the last ten years among the many papers read before the American Medical Association at its annual meeting, the subject of alcohol has become more and more prominent.

At Boston the section on Hygiene and Sanitary Science gave a whole session to the discussion of the alcoholic subject. At Atlantic City a half dozen papers giving prominence to the danger from alcohol were read. The old time sentiment that anxone who read a paper on alcohol or inebriety was in some way to be classed with the faddists is passing away.

The subject is becoming popula: and the number of papers that are offered for our annual meeting at Chicago far exceed that of other years, and indicate a tremendous advance in exact scientific study.

The meeting of the American Medical Association at the same time and place, affords an excellent opportunity to make the profession familiar with the new studies in this field.

The Temperance Lunch organized and carried out last year at Atlantic City was a great success, not only in what the speakers said, but in the crowds of persons who gathered to hear what the leaders of the profession had to say on this subject.

The object of this Lunch is to gather the profession together in an informal way and talk over the subject which we all begin to realize is of equal magnitude to that of tuberculosis. In England, for years every meeting of the British Medical Association is marked by a lunch with general consenses of opinion concerning alcohol and its place as a nedicine and beverage.

This se the first, sei invited to b dining-room at 1 P.M.

In the separate me aspects of t of discussion an address I of the Ame of the Am Inebriety, in the Me Alcoholic (Histori

the Last C

The se W. S. Hall Laboratory and the the

Other MacNichol

The the C. H. Hu Louis, Mo erations.

The forenteen the Tropractical n

The fi of Battle the Alcoho promised of papers me largely par

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torium Horel ar Cheares, III. June 2d., 3d., and 4th., 1908. to the state of the state of melinary in general, will be held in the parlors of the Audi-

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opinion concerning alcohol and its place as a medicine and gar to realize is of equal magnitude to that of tuberculosis, in an intermal way and talk over the subject which we all be-Association is marked by a lunch with general consenses of hagland, for years every meeting of the British Medical The object at this I much is to gather the profession together

> dining-room of the Auditorium Hotel, Wednesday, June 3d. invited to be present. It will be informal and be held in the the first, scientifically and socially, and the public are warmly This second Lunch meeting will be more prominent than

WORLD'S TEMPERANCE CONGRESS

of the American Medical Association, and honorary President of discussion. The first meeting June 18th, will be opened by aspects of the great alcoholic question will be the central topic in the Medical Profession, and their views Concerning the an address by Dr. Henry O. Marcy of Boston, Mass. ex-president Alcoholic Question. Inchriety. His topic will be "The Great Pioneer Thinkers of the American Society for the Study of Alcoholism and separate meetings have been projected in which the scientific In the World's Temperance Congress at Saratoga four

the Last Century will be presented by Drs. Crothers, Mason, Cutter and others. Historical Sketches of the Scientific Work and Men for

and the theories of its Food and Stimulating power. Laboratory Researches and Conclusions concerning Alcohol W. S. Hall of the Northwest University, Chicago, Ill., on The The second session will be opened by an address by Prof.

Other papers will be read on this general topic by Drs

MacNicholl, Kress, Patterson and others.

address read by Drs. Pattent, Woods, and Marvin. erations. Several papers on this general topic will follow this C. H. Hughes, Editor of the Alienist and Neurologist, St. Louis, Mo., on the 13sw Doctrines of Brain and Mind Degen-The third session will be opened by an address by Dr

in the Treatment of Inebriety. Very interesting papers by practical men along these lines will follow: enbos, of New York City on the Power of Mental Suggestion The fourth session will be addressed by Dr. John Quack-

the Alcoholic Problem. A large number of papers have been of Battle Creek, Mich. on Nutrition and its Relations to promised on this special topic. In the interval between these largely participated in by medical men. papers memorial exercises at the grave of Dr. Clark will be The fifth and last section will be addressed by J. H. Kellogg

the Army and Civil life have expressed a desire to make the a great success. to address the Temperance Workers of this country will be discussion of this subject. pected now that a particular session will be given up to the Canteen question a subject of special discussion, and it is ex-There is every reason to believe that this first great effort A number of medical men connected with

tific side of this topic. any associations and as individual representations of the scientribution to the great subject by each speaker, irrespective of It is understood that this work is voluntary and is a con-

and petty crimes following. One murder was committed 640 persons were arrested during the year for drunkenness and a society formed neutralizing every condition that would and break up the favoring conditions. Money was subscribed held and unusual attention was directed to isolate poor victims, further spread of this disease. Several public meetings were cities there were 42 deaths recorded in the year 1407, from prominence in the great future. In one of the smaller eastern occupied field of philanthropic work that will come into great occurred, 22 of Bright's disease. Two fires took place during which cost the county \$1,000 for two trials and convictionpromote tuberculosis. I this town there are 46 saloons and Tuberculosis. A crusade movement began, to prevent the 475 was directly due to the use of spirits, and yet there was the year starting from saloons, with a loss of \$60,000. The for one year. In the vital statistics 78 cases of pneumonia significant compared with the damage which came from spirit crusade movement, to break up the sale of spirits, and to educate no thought of its being prevented, no public alarm and no It was estimated that fully one half of the mortality which was lodges of Good Templars and Sons of Temperance existed. The churches were indifferent to the subject, and two feeble W. C. T. U. was the only active temperance body in the town. The bills for pauperism and care of the poor were \$22,000 drinking, and yet there was no attention or recognition of its the public to avoid its use. Tuberculosis was practically in-The following comparison is most suggestive of an un-

After Prohibition — What?

pulpit, from the press from the lecture room, in the home, it crusade movement for practical hygienic science. From the of the race. To make this effectual we must have a great effort to drive away one source of infection and degeneration the conditions which develop better manhood and better womangent efforts to build up a strong temperance community. its influence on individuals will lay the foundation for intellithe alcoholic traffic. Education is the most powerful method, must be the study of every man and woman, not only in the highest development must come. life and clearer knowledge. This is the direction in which the in the common schools, not the facts concerning alcohol alone, the laws which make it obligatory to teach temperance truths attainment of the race. The foundation is already laid in greater self control, and live more rational lives is the highest hood. In reality the geography of living and how to obtain is not the study of alcohol alone, but the laws of health and the commotion or strife concerning the nature of alcohol and a regular course of study, not only in the public schools, but On this rests the reasonable hope of permanent abolition of study of alcohol and the laws of health begun in public schools. and their dangerous influence on society. should be to train the citizens to a knowledge of alcoholic drinks cational work to show its necessity. Therefore every effort but all the conditions and surroundings which denote better in churches and communities without excitement and without Hunt recognized this fact in her life-long efforts to have the kind when crystalized into a law must be sustained by eduto come. It is a physiological fact that a reform of any of most of the states in the Union will not react in the years movement which will place prohibition on the statute books How can anyone be sure that the present great temperance or more states. The next generation brought a reaction the open sale of drink was swept out by law from a dozen hibition, but what will happen to-morrow? Fifty years ago homes of to-day may be protected by well enforced prohe has regard for the uncertain tomorrow. The children and man provides for the needs of his family, not only to-day but Enforcement of the law, but this is not all. The wise Prohibition is simply a great The late Mrs.

opinion towards a better condition of living. This is not a awakened conscience, and a great psychological wave of public hibitory laws driving out the saloon are the expressions of an are enforced more or less, and this is only beginning. Prothe next two years, and at least 10 more will follow in the very undoubtedly on the line to adopt prohibitory statutes during have pronounced prohibition laws and twelve more states are to the question; after prohibition, what? Already seven states the laws, and utilize the forces about us. That is the answer letter, but in the spirit, how to build up and take advantage of alcohol, but the conditions of life which center about it. After reform movement provoked by agitation; it is something deeper for more intelligence, more truth and light, not only concerning and further back and along with it comes the great necessity prohibition and before prohibition, we must push the crusade There are 80 large prohibition cities, where laws

of Boston, Mass. Secretary of the Scientific Temperance Federation Bureau. Journal from the pen of Miss C. F. Stoddard, the Editor and The above stirring appeal appeared in the School Physiology

the total loss to the state which the excessive use of alcohol remarks that it would be an interesting problem to estimate mitted gave alcohol as the etiological factor. The Supt. during the last two years nearly one third of all cases adentails and that it would be absurd not to recognize the this preventible cause. far reaching and disastrous results which follow from The Connecticut Hospital for the Insane reports that

self indulgent, whining, fretful and pretty much of a nuisance mental and physical ennul, vacant of thought and purpose, are often ill-educated, badly disciplined both mentally and incapable of getting the best out of life, restless from sheer physically. Such people not knowing what they want are than medical treatment. have had a school master. Often training is more valuable to themselves and everyone about them. They should Children of inebriates are very queer people. They

REVIEWS

AND STUDENTS. By Dr. E. Mendel. Authorized Translation. Davis Company, Philadelphia. Edited and enlarged by William C. Krauss, \$2.00 net. F. A. A PSYCHOLOGICAL STUDY OF INSANITY FOR PRACTITIONERS

great addition to the literature of this subject. practitioner. Altogether we commend the book as a diseases which is very valuable, especially to the general contains a guide for the examination of mental and nervous all explanatory and doubtful terms. The supplement has evidently rendered the original clear and divested of suggestive outline of the facts known. The translator Under the head of organic psychosis are grouped a most most excellent summary of the general facts of this subject. as the teachings of German authors; altogether it is the first published in The Journal of Inebriety appear here states, a very figurative term. Many of the ideas that were other drug neurosis. Alcoholic trances are called twilight gives an excellent outline of inebriety, morphinism and it is of great value. The chapter on intoxication, psychosis, ration and description of the facts. As a book of reference descriptions, leaving to more voluminous works the elaboments of the facts. It is literally a text book and a comranks all others, particularly in the statements and arrangepend giving the reader outlines and headings, and brief Among the number of books on Psychiatry, this out-

CINE. By Chas. E. De Sajous, M.D. Volume Two, Philadelphia: F. A. Davis Company. THE INTERNAL SECRETIONS AND THE PRINCIPLES OF MEDI-

author he must recognize that a new field has been opened, function and the manner in which it is influenced by the ductless glands been indicated, but the nature of the organic have been solved. Not only have the functions of the and that new problems of tissue respiration and cellular life However much one may differ from the conclusions of the Secretions carries the subject into the field of exact science. This second volume of Dr. Sajous' work on Internal

problems have been solved in a great part in this book. the physiologic production of sleep, and other obscure vasso dialator nerves, also the composition of ferments and

remedies may be made to act in overcoming poison germs. accurate knowledge of the conditions, and in this way contains within itself germ killing and poison destroying subnatural product to antagonize disease, and that the body He shows that the blood asset of auto-antitoxin is a These can be increased or diminished from a more

therapeutists, and proves that drugs rationally administered work is a physiological protest against the skepticism of Instead of medicines being of doubtful value this

are of the greatest possible use.

so far is a most wonderful contribution to the possibilites of among the great advances of the new century and the work overcoming diseases of all kinds. No review can do justice Dr. Sajous and his work promises to take the place So many and numerous are the facts which he has

brought out.

one of the permanent contributions to literature which practical problems as this, and we predict that it will be into practical use, that a new revolution in medicine will has so clearly outlined in this book, are accepted and put tions of the glands, and the chemo-physiological processes of gastro-intestinal diseases, is due to ignorance of the funcfully treat a large number of respiratory, nutritional, and will survive the test of time. The publishers have produced metabolism. a very fine volume with a copious index. The author makes it clear that the failure to success-No book for years has taken up so many new and It is very evident that if the facts which he

of societies, and the statements of medical men, concerntistics which they present, and records of the movements in Europe and this country have a great value from the stais the Scottish Temperance Annual, edited by Mr. T. Honeying the alcoholic problem. One of the most interesting statements of facts which give the work a statistical value. man. A number of symposiums are presented and careful The various Temperance Annuals which are published

statistics and facts which give one a very clear idea of the should keep in touch with the various movements that subject in a small compass. Every student of inebriety books can be safely relied upon. are now attracting so much attention, and these guide The National Temperance Almanac, published in New York City, is another of the most valuable grouping of

By T. D. Crothers, M.D., Supt. Walnut Lodge Hospital, Inc., THEIR ETIOLOGY, TREATMENT AND MEDICOLEGAL RELATIONS Hartford, Conn., W. B. Saunders & Co., Publishers, Phila-MORPHINISM AND NARCOMANIAS FROM OTHER DRUGS.

special methods of treatment, and hence is very attractive hension of the conditions unless he has read this book. one can treat the morphine cases with a clear compreesteem which it has held abroad. It is safe to say that no Its translation into several foreign languages show the treatment, and adapt it to the circumstances of the case. to all readers who wish to know how to lay out a plan of treatment. This work gives general principles rather than and so many physicians differ concerning the methods of the fact that so many physicians suffer from this disorder, published. A new interest has grown up around it from and suggestive text-book on this subject which has been and has come to be regarded as the most comprehensive This work has been before the public over five years

K. O. Brown, M. D.

issued by the Public Health and Marine Hospital Service. Washington, D. C., Government Printing Office, 1908. MILK AND ITS RELATION TO PUBLIC HEALTH. Bulletin 41,

subject. veloping and publishing such an exhaustive study of the Service, is entitled to the warmest commendation for de-Surgeon General Wyman, in charge of the Marine Hospital practical study of a subject that converns every person is both exhaustive and scientific as well as an intensely hygienic laboratory of the Marine Hospital Service and This volume of over 700 pages is issued from the Work like this shows that this department is