ALCOHOL IN MEDICAL PRACTICE ALCOHOLIC POISONING AND DEGENERATION

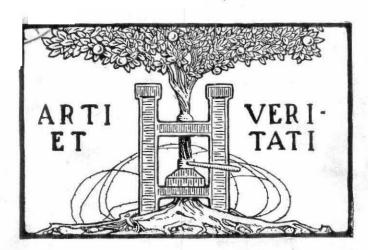
THE QUARTERLY JOURNAL OF INEBRIETY

OFFICIAL ORGAN OF THE AMERICAN SOCIETY FOR THE STUDY OF ALCOHOL AND OTHER NARCOTICS

Edited by .

T. D. CROTHERS, M.D.

1906



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THE RECOGNITION OF DRUG ADDICTIONS IN LIFE INSURANCE

THE QUARTERLY JOURNAL OF INEBRIETY

WINTER, 1906

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The Quarterly Journal of Inebriety is published in the months of March (Spring), June (Summer), September (Autumn), and December (Winter) at 50 cents a copy, \$2 00 a year. Subscribers not receiving their copies by the end of these months should immediately notify the publisher. As it is the wish of most subscribers to receive unbroken volumes The Journal is sent until ordered discontinued.

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A Hygroscopic, Antiseptic Cataplasm, indicated in all superficial and deep-seated inflammatory and congestive conditions, composed of the finest Anhydrous and Levigated Argillaceous Mineral, Chemically Pure Glycerine, Compounds of Iodine, representing a small percentage of Elementary Iodine, minute quantities of Boric and Salicylic, Acids and the Oils of Peppermint, Gaultheria and Eucalyptus.

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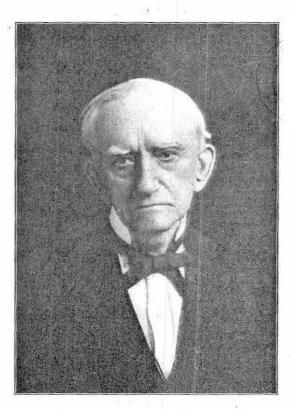
LONDON SYDNEY MONTREAL

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OFFICIAL ORGAN OF THE AMERICAN SOCIETY FOR THE STUDY OF ALCOHOL AND OTHER NARCOTICS

T. D. CROTHERS, M. D., EDITOR



NOAH S. DAVIS

First President of the American Society for the Study of Alcohol and other Narcotics

JOURNAL OF INEBRIETY THE QUARTERLY

Volume 28

WINTER, 1906

Number

INFLUENCE OF INEBRIETY IN RAILROAD ACCIDENTS

By Henry O. Marcy. A.M., M.D., LL.D., Boston

or no influence when his advice runs tood and drink. taining to his preferential desires for in all matters of diet especially perman. It is claimed that this is evinced counter to the desires and passions of declared that the physician has little From time immemorial it has been

public which we should fearlessly disticl Clearly we owe a duty to the trude our opinions upon the body politastes, preferences or prejudices. charge, utterly independent to their If this is true why should we ob-

ually do but little harm, save to himselt. so fixed as to render him incurable. burden upon the public, may individ-The besotted man, who lives as a His diseases may have become

ed upon the public by the use of alco-holic drinks, the one which I have ployees. the use of alcohol by railroad embetall the great travelling public from which we may study the injury inflictchosen today, is the danger which may Of the many-sided views from

great system of transportation. railroad authorities, which govern our well known and great credit is due the states, working in harmony with the railroad commissioners of the various Of course, in a general way, this is

traverse the United States, has de-The net-work of railroads, which

veloped almost beyond belief, until now number nearly three hundred now nearly every part of great Continent is put into close touch thousand miles, on this continent lines, radiating in every direction. alone, over which trains are passing by its civilizing influences.

These

and repassing in unbroken succession. upon the road. which we have an army of commercial sion of any ordinary mind, beside transported is beyond the comprehenreach distant points in the shortest everywhere bent in undue haste to ish, a nation of travellers, seemingly travellers numbering over three hunpossible period. The freightage dred thousand who practically live The Americans are, like the Brit-

with such great responsibilities are our ask ourselves if these men intrusted mous loss of property, we may well with their best powers watchfully alert be in the best of physical condition. care of the trained servants of the are intrusted to the supervision and sate custodians? recent past, with great loss and enormost extraordinary casualties of the to avoid danger. In the light of the railroads, who for every reason, must All these lives, and all this wealth

merce commission another "accident We get from the interstate com-

bulletin." It covers the mischances reported by the interstate railroad companies in October, November and December last, 1905.

men were killed and 3,734 were hurt. In the railroad yard accidents of the three months 108 railroad servants were killed and 2,061 were hurt. Total casualties in the three months accidents (not collisions or derailor leave moving trains, and 20 in other ways. In the "miscellaneous" other persons were killed; 1,535 pas of the derailments. The total damage were in 267 of the collisions and 133 were 2,077 train collisions and 1,645 ments) of the three months 178 trainlost their lives in attempting to board seriously. other persons were hurt more or less sengers, 1,286 trainmen and \$2,817,294. In these train accidents to engines, cars and roadbed is put at train derailments. Passenger trains tracks of the interstate roads there In these three months and on the ,227-1,109 killed, 17,118 wound passengers, 198 trainmen and 12 The commissioners remark:— I wenty-tour passengers

creased, and that therefore the prorailroads of the country throughout employees this quarter is very large; larger in nearly every item than durwas necessary to employ to handle the that many of the new men, which On the other hand, there is evidence comparison of the casualties alone. much greater as would appear from to the number in the service was not so men employed had been materially infair to conclude that the number of As there was an enormous amount of traffic moving on all of the principal partion of employees killed or injured December quarter of the year before much larger than in the October-The total number of casualties to the last preceding quarter, and

additional business, were entrusted with dangerous duties after but very little training; and that both new and old men were, in the stress of work, necessitated by an enormous freight business, frequently kept on duty continuously for many hours beyond a reasonable day's work.

The report as to the most fatal of the collisions discloses a green man (with only five months' experience) in one of the engine cabs. The conductor and engineman of another colliding train were both fast asleep at the time of the crash; they had been on duty 27 hours and awake 23 hours. In another case, engineman (of a fortinght's experience) had been on duty 4 hours, though not continuously. In another, an engineman had been on duty 15 hours. In another, an entire train crew had been on duty over 16 hours. Concerning another we are told that the conductor of one of the trains and the engineman of the other were asleep.

Were asleep.

We notice that many trainmen and members of railroad-yard switching crews were killed or hurt in falls from the roofs of cars, or while trying to get on or off moving engines. It's not pleasant to read that sixteen train derailments were caused by obstructions on the rails—placed there maliciously.

Until the very recent past, the medical profession believed and taught, and the grent public religiously accepted as orthodox, the advantages to be derived from the use of alcoholic beverages.

Every individual subject to special Every individual subject to special strain, either mental or physical, consciously believed that the difficult or danger period might be tided over with much greater safety by the use of alcohol in some form. Even so recent as in the war of the Rebellion in which, as a general medical officer, I had my first experiences with alcohol.

it was believed advantageous to keep up the staying powers in the march, or on the battle field, by the administration of whiskey. Each sailor expected his grog with same regularity as his dinner.

This is equally true in the navy; not alone the army and navy in the United States, but of the civilized nations of may be confidently expected to follow a line of conduct which will lead to their selfish betterment. My own prejudiced observers in different parts of the world that alcohol, even in moderate quantities, lessens the function of all the senses; for example—the soldier cannot march as far, or whole twenty-four hours of service without sleep,—kept the bottle handy in the cab for conscientious use. This other narcotic. In this way, at least, we may be assured that the danger of its use will be reduced to the miniorganism is, to say the least, almost unexceptionally detrimental. If adbeneficial to the men and adding safety to the trains in transit. Since it has gineer and fireman upon a train, sub-ject to their long hours of exposure on ing conclusively that alcohol in any form, or any quantity, taken into the upon the animal organism and showmade by teaching the effect of alcohol of the use of stimulants in the army. alcohol-the good sense of the regupermitted to take, even in moderation, hours in the year of able service, when shoot as straight, or have as many been clearly shown and that by unwas approved of by the authorities as duty, oftentimes demanded mum.—I wenty-five years ago the enthe advice of a wise physician, who may treat its effects as those of any ministered at all, it should be under he temperance movement has been ations is shown in the total abolition eeling is that the great advance of All men, who are not lost to hope for a

ageous to keep the world. Moreover in the military in the march, and naval service such rules can comby the admin-paratively easily be carried into execution.

The railroad service in Germany is

a semi-military organization and there pe, fore is more easily under discipline ow and control. The Prussian railway to management has issued orders forwin bidding any engine driver, switchmen of or dispatcher all use of beer or spirits en when on duty.

The order closes with the statement that total abstainers will be given preference in the matter of promotion and permanency of employment. The sub-officers of divisions have issued more stringent rules requiring total abstance of all persons holding responsible positions, stating that no one need apply, unless his character, as a temperate man, can be sustained.

Dr. Emis of the University of Heidelberg has declared that over fifty per cent of all accidents occurring on the German railroads are due to the bewilderment of the operatives, who have used stimulants and that, if total abstainers only were employed, the expense of managing the road could be reduced very greatly. Such action is fundamental and far reaching since, for generations, the German has conscientiously believed that his beer was advantageous in the development and physical powers.

The railroad authorities of the

The mairoad authorities of the United States are widely awake as to the dangers, to their various systems, from the monetary standpoint as also from a humanitarian point of view. As I have just shown, every railroad wreck involves a large loss. By statutory enactment every passenger killed represents a loss of five thousand dollars and many that are permanently injured obtain much larger suns. The damage to equipment and freight

seeing to it that, as far as possible, their duties are assigned to them at regular hours, with an insistence of taking proper rest and food and then demand of them when on duty the highest type of possible efficiency. In the army no matter how favigued the sentinel has his four hours of rest and hours may endanger the entire camp. Woe be then to the scattnel caught sleeping at his post. A court martial and execution swiftly follow as a stern warning to the future.

In a large sense the engineer and is so enormous as to endanger the profits of the corporation itself. carefully over their companies not alone to especially 'rain Neglect of duty during these two is two hours of watchful vigilance. important servants, watching illy over their physical condition, behooves these great

vants, we certainly should bring to bear every possible effort to secure from them the best and safest service. Hence the wisest teachings of the effect of alcafol upon the human system should be disseminated and establish among these men the esprit de trainmen are the sentinels on duty, upon every one of the numberless trains traversing the country. While we may not shoot such derealet serve may not shoot such derealet serve corps of the service.

roads written by their general manaquote here letters from three rail

Dr. Henry O. Marry, rso Commonwealth Ave., Boston, Mass

Rule G. in our book of rules reads as follows: "The use of intoxicants by employes while on duty is prohibited. Their habitual use, or the free My dear Doctor:—
I have your letter of the 29th inst. in relation to restrictions upon the use of alcoholic beverages by our em-

> desire, so far as we are concerned. quenting of places where they are sold, is sufficient cause for dismissal." This of the New York Central System. same rule is in effect on the other lines I trust this is the information you

Yours truly, E. VanEtten. Vice-President N. Y. C. R. R.

Dr. Henry O. Marcy, 189 Commonwealth Ave. Boston, Mass.

to Presiden vacation.

The is away upon vacation.

Included in our "Genera"

Committees" is the tions for Employees? is the following Dear Sir:—
Your letter of even date, addressed President Tuttle, is received while our "General Regula-

paragraph:
"No person who is intemporate, dishonest, immoral, or otherwise vic-

ious, will be permitted to enter or remain in the service."

The following paragraph appears in our "General Rules:"

want, or now.

President returns.

Yours truly.

E. A. Rydes. The use of intoxicants by employees while on duty is probibited. Their habitual use, or the trequenting of places where they are sold, is sufficient cause for dismissal."

It seems to me that the above aneswers your inquiry but if you desire anything further and will advise me, I will endeavor to obtain what you want, or hold your letter until the

President's Secretary. Boston & Maine R. R.

Dr. Henry O. Marcy, 180 Commonwealth Ave., Boston, Mass.

ferred to me in regard to the restricaddressed to our President has been re-Your letter of the 29th ultimo

iges by our employees.

tion. The rule reads as follows:

"The use of intoxicants by employees while on dary is prohibited.
Thier habitual use or the frequenting of places where they are sold is surficient cause for dismissal."

This rule has been in force for "

Yours truly,

General Manager:

N. H. W. H. R. R.

These letters show a commodable spirit of watchfalness on the part of the managers of our great railroad systems and I doubt not similar rules are inforced with greater or less stringency upon all the railroads of the country. In a fevent conversation the country. In a feeth conversation with one of the railroad commissioners, who in different capacities, had been in railroad service for about thirty-years, with commendable pride said, 'note the advance in temperance and the extraordinary dimination of alcoholic drinks by all the railroad men in the strice. The rule of thirty years ago is now dedeally the exception and the type and character of our employees in their self respecting manhood shows a vast improvement. To those who desite to drink; it is get all too vesy to furnish stimulants, but each wear the responsibility is more and more placed upon the dispensers of alcoholic beverages, as well as those who partake of them.

Chapter 281 of the Revised Statutes of the Commonwealth of Massachusetts, relates to the sale of intoxicating liquors by registered pharmacists. Section 1 of the Act reads:—

In reply beg to say that General Rule "II," of our Rules for the Gov-ernment of the Operating Department, would seem to answer your ques-tion. The rule reads as follows: tions inforced by this company in conrection with the use of alcoholic bever-

number of years

or fown provided that the prescription is dated contains the name of the person prescribed for, and is signed by the physician. All such prescriptions shall be retuined and kept on file in a separate book by the pharmaest ulling the same, and shall not be filled the second time. Such prescription granted, registered pharmacists "In any city or rown licenses for the sale of in ours upon the prescription of a regist-ered physician practising in such city of this act, may sell intoxicating liqwhom a certificate of fitness has been liquors of the first five classes are not book shall be open at all times to the imspection provided for in section wenty-seven of chapter one hundred of the Revised Laws. issued, as provided for by section two intoxicating In which

In the better dilusion of knowledge of the higher transage in such imports and service, wise efforts are being made in various parts of the world.

The London and Northwestern Company have established a Total Abstract Union Society, among its employees which society now numbers over 12,000 members. This is a large per cent, of all the persons employed on that great rull road system, and includes the directors and officials from the President down. The central object of this section is not only to project of this sections and officials from the President down. The central object of this sections are only to project of this sections and officials from the President down. The central object of this sections are only to project of this sections and only to project of this sections. lessen the worry and strain. All mem-hors of this union are put on the pro-motion list to receive an increase of wages every five years. If they remain in the same position and are total abmore total abstinence among its mem-bers, but lessen the risk and danger of the work and damnish accidents and

total abstinence societies and pledge themselves not to use spirits at any time or place. Preference is given to encouraged their operatives to form The "Midland" Railway Co. have

INEBRIETY IN RAILROAD ACCIDENTS

all persons applying for promotion work by the members of this society. loss from accidents and more perfect societies. The company reports less and larger wages who belong to these

coholic liquors is taken to be an evi-The decline in the revenues from althan any of the preceding years of beer and spirits in 1904 was less places upon the injury expected to arise from the free use of alcoholic beverages I quote General Funston's other employment for the money that dence of an improvement in the bibuant measure to quell the disorder foling that can be available for any one." spirits on the ground and leave nothgrocery, or other place; pour out the every saloon and bar attached to a San Francisco, three hours after the As a recent example of the emphasis which a general officer of the army they used to spend in public houses. of the people are changing for the guote from a recent editorial in the Boston Transcript. and their property be destroyed." I them, refusing to make sales for fear parts of the city the proprietors closed was thoroughly destroyed and in other saloon within two miles of the fire or property. lowing from the fire and destruction This was considered a most importstartling. earthquake, was most significant and command of the panic-stricken city of first order April 24th, when taking Chamberlain considers that the habits lous habits of Englishmen. In Great Britain the consumption It read thus: "Destroy A reporter says "every

Drunkards in Massachusetts.

the statistics of drunkenness. sioners is more deeply significant than No feature of the annual report of the Massachusetts Prison Commisfact that during the last fiscal year

> arrested. rests exceeded the number of persons the twelve-month, the number of arinto the clutches of the police during tims of the cup fell more than once 2.4 per cent. of the total population of the State, but as a fraction of the victerms of ratio, these arrests represent the liquor question. Translated into to penal and reformatory institutions were made in the Commonwealth, while 20,648 persons were committed average of over two hundred a day-73.972 arrests for intoxication-an for inebriety, indicates the vastness of

tistics which don't lie, and which show ards. The cold-blooded logic of stato head off the manufacture of drunked legislation and serious administracountry in the world." But enlightenagainst drunkenness to be found in any of wise laws faithfully enforced chusetts "furnishes the best example methods with which it is treated. policy, admirable in many respects, is deficient at points. The fact that of turbing way that the Massachusetts census of commitments from 17,779 to 20,648, suggests in a large and dised from 58,235 to 73,972, and the that between 1902 and 1905 the numtion of it have thus far failed to real problems, used to say that Massasylvania, an intelligent student of pendifficulties with which the situation former sentences reveals alike the undergone previous imprisonment for ber of arrests for intoxication expandpress the volume of drunkenness and bristles and the insufficiency of the number had served from five to fifty the same course and that 4892 of the for drunkenness last year 12,910 had the total body of persons committed The late Henry M. Boles of Penn-

magnitude of the problem and demos strate how little, with all our adminrecurring drunkenness disclose Impressively these grim figures of

> ebriate been inadvisedly heroic, on the ers of Bacchus been madequately comstrative machinery, has been accon-dished toward its solution. Have our our policy toward the habitual inprehensive on the one hand, and has efforts to block the making of follow-

grog habit imparts to the commission into industry, the stimulus which the siderations, the unread riddle of the my—are painfully familiar aspects of the momentous evil of alcoholic ex-cess. It seems as if people had beof crime, and the part which it plays disturbing influence which it injects State, is a matter of commanding unyear in the bald penal statistics of the situation is either a truism to be taken for granted, or a conundrum to be come calloused to the notion that the relations to financial and social econoof the individual-in short, its variet in weakening the productive capacity poses on the taxpaying shoulder, the portance. The burden which it imdrunkard, as laid bare from year to for granted, or a conundrum to Wholly apart from sentimental con-

and which, in part and in brief, are ical and moral perils of acquiring the alcoholic habit either in the saloon, or agencies to educate minors in the physportance of employing all available significant. They teach the vital inthat inchricty begins before the vicsive inquiries into the liquor problem tive effort is more fruitful and helpful at the club, or in the home. Prevenlikely to do so later, are profoundly before he is five and twenty he is not if a person has not indulged to excess tim is twenty years of age and that great stress connot be laid than redemptive or correctional effort. L. Dana draws from his recent exten-Upon this phase of the problem too The conclusions which Dr. Charles

These conclusions mark with em-

phasis the importance of educating the young in a simple, but scientific way the dangers of the drink habit. It also shows that comparatively little is from a recent paper the following statement which is suggestive and which fortunately has proved of equal oftentimes the best remedy to take whose work can never be regular and which has a special emphasis in its ever, may be done for all classes, confirmed inebriate. Much, howtoration to the productive class, of the to be expected in the permanent resaway the craving for drink. I quote proper supply of nutritious food is ing upon the nervous energies. at the best is exacting and very wearbearing upon the railroad employee alue in other cities.

More than a year ago, the Epis-copal City Mission established at 1063 Washington Street, a three cent lunch. lunch is given with drinks. thirty saloons, in each of which a free Patrons are coming and going con-tinually, between these hours. It is located very near between twenty and It is open from 6 A.M. to II P.M. A Boston Substitute for the Saloon.

very satisfying as a drink. The servthat the apportunity of getting nourtime they are feeding from 1,600 to 1,900 daily. We are told that they the uncooked food was stored. Everything was neat and attractive. We mgs of food were very bountiful. We vestigate. We found the food of good up the place with the returns from the started with \$180 capital. They fitted was very appenzing. At the present tasted several kinds of food, which saw the cook room and the cooked start, on a paying basis, restaurant, and it has been, from the food in bulk, also the ice closet where The coffee was of nice flavor, and quality, nutritious and well cooked. We visited the place recently to in-

ishing food and pleasant, hot drinks at a modest price will attract people, and prevent them from putting their money into the till of the saloonkeeper. On days when the saloons are closed, the patronage is doubled.

upon the better classes of society of from my subject, by reference to that ual, greatly to his detriment. Every habit formed, until it becomes strong enough to dominate many an individboth sexes. A dinner without wine question. To wit, namely, the social habit which still holds in great force of all the phases of the temperance serious sufferers. The influences of the so called upper circles, who are siderable class of ladies belonging to physician is familiar with a very conan essential. lacks that which has been considered extremely difficult to overcome. the social custom are far reaching and In closing, permit me the digression seems to me the most difficult A taste is cultivated, a

A very great progress, however, is being made from year to year. My attention has recently been called to the youngest temperance society in Germany, composed of lawyers and I quote from a circular which has been widely distributed.

"Whoever." it save, "honors the

"Whoever," it says, "bonors the truth must admit that we men with a university training are more to blame than any other class of people for the miseries connected with the use of alcoholic drinks. A thing which is con-

very destructive influence on other classes of society and prevents many from recognizing the real dangers of this free use of alcohol. The students of law lead all the others in their ready obedience to these university d rinking customs. Therefore, it is high time we jurists, as such begin to atone for this crime as far as is possi-5lc. men of this class during their univer-sity life. The approval which good group among them, namely, the unisociety have not felt called on to do so right name, and root it out of their own midst. That the higher classes of social strata had had the courage of rooted out of Germany it the higher alcohol could long since have been sidered to be vulgar taste in the higher men cimpire." light which, thank God, is now society gives to these customs has a ties are adhered to by almost all the ing customs of the corps and fraterniversity men; for the compulsory drinkbefore this is the fault of an especial its convictions to call the thing by its tige in the lower classes; so that, at classes of society soon loses its presalcoholism in our capacity of jurists, a progress throughout the whole Ger-We must enter the fight against its worst forms, the misuse of

Similar organizations of the clerical profession and of physicians, as well as merchants and bankers, would go far toward the redemption of a great people

The conclusion reached from the statistics gathered by the Register-General of England, as to the average number of deaths among 61,215 persons were, that there were two deaths among drinkers and three among liquour sellers for every one among ab-

The cocaine habit is said to have become so serious a menace to the prosperity of India that the government has formulated the most drastic regulations to check the increase of the vice. Even the mere possession of the drug by the laity is a punishable of ense.

PSYCHOSIS OF MORPHINISM

T. D. Crothers, M. D.

Superintendent Walnut Lodge Hospital, Hartford, Connecticut

by which distorted conceptions of facts are not recognized. In all probability soning centers or a defect of the senses all persons who use morphia. appears to be a prominent symptom in all persons who use morphia. It is the relation of right and wrong which eral defective conception of truth and a veritable paralysis of the higher readifficult to understand whether this is of some condition of degeneration both conditions exist, and what is termed moral paralysis is a symptom disposition to conceal the facts and ing faculties and inability to recognize tically describes a defect in the reasonthe later stages. This symptom pracwhich is common to these persons in he value of truth and honesty, also a All writers have mentioned the gen-

I shall attempt to group some of these symptoms which may be termed the psychosis of Morphinism. The first is a palsy of the consciousness of right and wrong and the inability or indisposition to discriminate between the real and the false. The second is an intense anixety and zeal to explain and to give reasons for a certain contact and an explanation of why this

distort them, no matter what their re-

Third, there is noted some local irritation and disorder of the language ceaters in which thought is expressed in the most extravagant and impulsive way, or in the most secretive, hesitating and doubtful words. A fourth psychosis is a morbid impulse to deceive, to take advantage, or a keen delight in swindling, misrepresenting and acting out new characters while under the influence of morphia. This condition was first described by me

some years ago, and has been confirmed in some marked criminal cases since then.

The first grouping, called moral

vantage of circumstances that appear this paralysis only in connection with their exact condition, or taking adand unreasoning prevarication. They ceptionally truthful, but in regard to the use of opium and its alkaloids they to be favorable to some personal inmask for the purpose of concealing palsies, is an impulse to live under generally to objective things. This I manifest indignation on being suspect-ad. Sometimes this denial is followed in denying the use of the drug and often show extraordinary childishness practice the worst kind of deception matters they are frank, honest and exthe use of the drug. On all oth r call the second symptom. ent to trace it to some particular cause. stances great ingenuity will be apparthe conduct and motives. In many inby intense zeal and anxiety to explain The first grouping, called mora

In the first the drug taker is pleased stoutly to deny the implication, that he is using drugs. In the second his denials are less emphatic, but his explanations of motives and conduct are so faulty and strained as to convict himself. Often these explanations refer to acts that are associated with the use of opium and not with matters outside. Some patients will be scrupulously honest and exact on matters of observation and in opinions concerning the surroundings, but in securing and using opium they are falsifiers of the boldest class.

There seems to be in many instances a growth, and an increase of this par-

ticular psychosis, which begins first with mild denials of the use of the drug, then going on to shrewd explanations and reasons and finally culminating in profound deception and general demoralization on every topic and subject relating to themselves and environment.

and care to disarm this suspision. sagacity to discriminate as to the value and an apparent good judgment and Running and apparent frankness. Running through this is a vein of conceal the real condition. very childish and lacking in skill to of profuse explanation is sometimes eration become prominent. The stage opinions of others with general degencentric conduct and indifference to the reached, changes of appearance, ecof certain impressions. Thus, in one case, a concealed morphine taker, who it is bold and ingenious, with unusual detected the slightest suspicion in other drop everything and take infinite pains persons concerning his conduct, would Generally, long before this stage is egotism and pleasure to in others

A clergyman, who had reached this stage of morphinism that attracted attention, spent a large part of his time in explaining to his friends that he was innocent and was misjudged. Each new explanation, by its intensity and minuteness, failed in a degree and required other efforts and explanation. This man was able to go on with his professional work in the pulpit witheut comment, but eventually resigned and disappeared. Often this stage is associated with a general failure of vigor and previous mentality. He is duller, sleeps in the daytime, is awake at night, blunders in business affairs, makes mistakes in correspondence, forgets proper names and neglects to pay bills, together with the great variety of marked psychical changes. In busi-

ness he may be more acute and accurate in collecting bills and contracting debts, or the opposite. A certain irregularity of thought and conduct and a suspicion of others are all typical of his condition.

posite viz., formal, precise, symbolic stages, is paralysis of the language unusual. Often they consist of express the thoughts are strange and or tacitum, the words that are used to sion is changed. Whether loquacious centers. centers. fluence of morphia on the language or book, suggesting at once the invariable styles noted in a single article seen in literature, particularly in the than express the feelings of the auexpressions that seem rather to concea pletives and forcible exclamations, low the beginning or only seen in the later thor. igures of speech or low slang words In a third psychosis, marked from This psychosis is frequently The manner of the exprescx-

addiction. is very significant of this form of topics, with apparent inability to keep writing and the sudden change of variety of peculiarities in speaking and to express the feelings. A great Misty, high-sounding words are used come on, and the language changes off, conservatism and secretiveness the term used. Later when it wears value of language and the meaning of drug obscure the consciousness of the indicates two stages of morphinism. sion followed by a staff, pedantic style the mind concentrated on one subject, At the beginning the effects of the A slangy, dogmatic, jerking expres-

DeQuincy had language exaltation, or delirium, but when under the influence of opium he was able to write good English, and careful students of his writings will discover lapses and

changes which are clearly due to this cause. One author has described these as defects of consciousness. Another has called them disorders of the sensation, such as hyperesthesia or anesthesia.

There is a marked mental change associated with these symptoms. With it is noted an exaggerated egotism and confidence in the patient's ability to understand the relation of events and shape his conduct so that the real condition may be concealed. In some instances the secret use of morphia exalts some of the serves and depresses others. This may account for some of the confused states which follow. Probably taste, touch and smell are more or less affected, and the impressions from these disordered senses have much to do in perverting the reason, and lowering the consciousness. In the latter stages these conditions are apparent.

A fourth psychosis may be practically called a delirium and morbid impulse to deceive, acting out a new character, enjoying the pleasures of taking advantage of others' credulity and the ability to conceal and misrepresent.

It has been noted that kleptomania was common, and many chronic cases could not resist the opportunity to take things. In the police courts it has been noted that some of the shrewdest swin, lers, pickpockets and confidence men are addicted to the use of morphia. Under the influence of morphia they exhibit an acuteness of intellect and audacity never seen in the ordinary law breaker, but when the morphia is withdrawn they display the greatest weakness and childishness of manner and conduct.

An example of this kind was that of a man very highly educated and of good social standing who became

discovered.

completely baffled all investigation ing in return balances of money. He would leave as security for loans made by strangers. He had numerous let-ters of introduction and bill heads of elegant rings and pins. These he addicted to the use of morphia and his morphia, and the real condition honesty and earnestness of manner times he was arrested, but his great were his own or forged ones. Several their signatures, which he would copy would call on leading business men on times he would solicit loans, giving made friends wherever he went. At was that of great frankness and ing loans. He used morphia constantand talse diamonds. He had no conon fraudulent checks, bra-viewelry ances of strangers and sectrang loans est delight to go about following the entered on a career of swindling and Finally he was detected, deprived of was unable to detect whether they so accurately on checks that the maker various plausible pretenses and secure hotel by forged checks, receivwatches and jewelry, as security. worthless checks and references or honesty, and his evident earnestness occasions to raise money. I lis manner prominent firms which he used on all had a number of cheap crystals set in disguises and changes of clothing, and days. He carried with him various turn home and remain concealed for brokerage business, making and placfederates and never mingled with any-body of the same class. To his friends crowds at watering places, hotels and deception. It seemed to be his great lewelry, books or board at the Then he would pay bills for clothes, ly, and after long journeys would rehe represented that he was in the the steamers, making the acquaint-

Another man of this class was a

and was apparently treated for this advance, secure the confidence of the would enter another institution, pay in swindled the proprietor in fraudulent all sorts of disguises, but heally was dying mother. This same man travmoney and deposit checks as securities, manager, draw back most of the checks and loans on false securities, years he visited different institutions sanitarium swindler, and for many arrested and convicted. years, making many victims, assuming eled on the ocean steamers for two then disappeared. In a short time he then have a telegraphic call to visit a but in every instance

statement that he could not have had jured innocence seemed so clear that the detective was overwhelmed. He stood him. When arrested by a de-tective he quickly convinced him that man who came under my observation charged with larceny. I found it imsuch a note and that he was only a panote. He sent for me to confirm his in the act of receiving cash on a forged ing city, and soon after was arrested left me to make a visit to a neighborhe had made a mistake, and his inregret exceedingly that they misunder a saint and could make his accusers fested the honesty and frankness of accused of sinister motives, he manivantage of every opportunity. If accurately, was an excellent judge of character. He reasoned quickly and gence seemed to be of the most acute the influence of morpha. His intellifound that he was an excellent type of the Hdye and Jekyll class while under morphia. On trial he was acquitted human nature and adrost to take ad out consented to remain with inc. possible to keep him from the use of A third example was the case of a

tient under my care. So shrewdly did he defend himself that the judge reeased him

of duty of right and wrong, and he was able to judge of the weakness of tion. and died a year later from consumpand used morphia every day, and was avocation. He was a total abstance and help him enjoy the pleasure of hi as a pleasure, and any gains he reswindling operations were undertaken not engaged in any business. others and to take advantage of their more insensible to every consideration paralytic. The morphia rendered him results. Of course, he was a mora himself and made him fearless of any which he enjoyed when under the into lorge notes, sell gold, bric-a-brac finally arrested, sent to state's prison fluence of morphia. The drug gave ling was a veritable delirium and one ceived from them were always used circumstances in the most skillful way him a certain amount of confidence in do other most adroit pieces of swindfather's estate, was independent and He received a yearly annuity from his I found that the criminal instinct

ing stage grows shorter and shorter and the narcotic stage longer. of the drug can not be kept down is of short duration, because the use course, a career of crime of this class ness and disarms all critics. the drug is taken. The use of the degenerates at the beginning before the minimum amount. The stimulatwith evidence of honesty and frank condition; therefore, it is accompanied is an exact representation of the rea shrewdness which for the time being drug gives a certain courage No doubt all such persons are moral and

One of those criminal morphinists

was registered in three different hotels

among detectives more frequently reason his morphia failed to help him out and he was discovered. This one, but it exists and is recognized nized. In each hotel he swindled the appeared in a different disguise and in a certain city. At each place he than elsewhere. psychosis is fortunately not a common thing in another city, but for some discovered. Later he tried the same proprietor and several of the guests tity and voice that he was not recogcould so thoroughly conceal his idenand then went away without being

all the deception and intrigue. able acts. His death and the complete flict showed that he was the cause o subsidence of all discontent and conlibels and other thoroughly disreputwas continually the storm center of slander, dishonest practices, public in the profession of a certain city. He to destroy the good will and confidence class for many years has done much A physician who belonged to thi

that both the psychical and the physi-cal suffer alike. We have paid great study of a number of persons suffereither be inherited or acquired. and defects of the higher centers of attention to the latter, but the former ing from this form of addiction shows the brain which undoubtedly may failures of morphinists show lesions The moral paralysis and ethical

PSYCHOSIS OF MORPHINISA

outline a field that is largely neglected, along these lines. It aims merely to appearance and sharp denials of the is not studied. This contribution is ognize duty and obligation to others has received little or no study. more exactness than ever. the study of which will enable us to ap-ply therapeutic measures with far use of the drug are common, but the failure of the higher mentality to recpride and degeneration of persona The gross changes seen in loss of

sons who would discover the condiacters and to clude the efforts of permislead, also to act in different charsent and to take advantage of the credulity of others, not for any third, a special exaltation of depres-sion of the language centers, with a sponsibility and obligation; second, a delirious stage of profuse explanation faction of being able to defraud and purposes of gain, but for the satisand the use of words; fourth, a veritachange in the manner of expression and efforts to conceal and explain the reasons for his acts and conduct; criminate the ethical principles of reand inability and indisposition to disthe consciousness of right and wrong mon to morphinism are, first, palsy of psychosis or psychical symptoms comclear may be stated as follows: The le insanity to deceive, to misrepre-A summary of what I wish to make

the result is, sterility." the third generation, becoming worse all the evils coming from alcoholism, if the use of alcohol is continued, until pass from father to son, even down to Darwin said, "It is remarkable that

of absinthe used has shown a corresthe past five years, while the amount creased more than 40 per cent. during consumption of beer in France has inponding decline. The statisticians announce that the

DRINK AND DRUG HABITUES

By Dr. J. T. Seareg

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nerve and brain condition, which occreasing in this country. The inherent "neurasthenic". They seem to be inous in society. They are said to be when they ought not, are very numercipal foundation or predisposing cause called complaint, is evidently the princasions this complaint, and it is well "nervous"; technically they are called which are included under the generic of most of those mental abnormalities, States. They are popularly called particularly numerous in the United words follow, in the individual and in insanity. Mental aberrances in other some of them reaching the grade of mental abnormalities of all kinds neurasthenia frequently term of "insanity". Nervousness or asthenia; -not always, but very naturhis prosperity, nervousness or neur-Those persons who "feel bad", precedes

of nerve lines, and nerve centers generularly the property of nerve structures Sentiency, or ability to feel, is parties technically know as Physchasthenia lent, mental weakness or instability. brasthenia, or its functional equivaalso includes brain weakness or cerethinking brain, so that neurasthenia ness. The nerve system includes the thesia, as its most prominent symptom. The principal feeling organ is the over-sensitiveness, nervous hyperaes nerve-weakness or neurasthenia has sia means over-sensitiveness; so that they are over-sensitive. Hyperaestheneurasthenic, over-sensitive, hyperaescenter. A person who is nervous Neurasthenia means nerve-weak-When these structures are weak is the most conscious nerve

thesic, has these as morbid conditions principally of the brain; he is too conto complaint. had feeling; and, as its consequence, scious, too sensitive, too much given to

weak sructures to become otherwise tural abnormalities. It is easy for course predisposes to the other struca sign of, general structural nerve weakness. Structural weakness of abnormal; they are easily inflamed or weakness. most frequently an accompaniment, or that of the central brain; which is the most frequent hyperaesthesia is or other of the nervous system; but can have local hyperaesthesia, that is neurasthenic's principal disease. and deficiencies; in their gravest grades called "lunacy." "insanity." "idiocy." etc. ily recover a normal state after in tive and deformed; they do not read impaired; they readily become defecover-sensitiveness of some one part tral, predisposing cause as I have all symptom in neurasthenia, and is a sitive), brain is the most pronuncial ic (weak), hyperaesthesic (over-seneasily injured or diseased. An astherpairment: in every way, they are more ready said, of mental defectiveness very frequent, individual and ances Cerebral hyperaesthesia, is the

tion"; he is cerebrasthenic as well 113×1 thenic often nor only "feels had" lack of "will-power". cludes a general brain weakness. the nerve-weakness generally also in herent neurasthenia. In these cases excessive use of such agents, is an inleads the drink or drug habitue to the The abnormality, that most offer to more able to "mass." The neuras

> The drug temporarily relieves the neurasthenic's discomfort by its chemic, hardening, "benumbing effect centers, and "tracts". upon his over-sensitive nerve lines, help to him. He calls them "stimubad" readily and is weak-willed, when cerebro-hyperaesthesic. ary relief from discomfort or pain. at times, would come, by the temporscientific test confirms; any more than, brain or muscle strength, which no lants", as though they increased his thene like alcohol, appears a great chloral, etc., or a slowly acting anaeslike nicotine, the opiates, cocaine, his comfort is involved, so anodynes

and more sensitive, (hyperaesthesic); other latent predisposition to menta These agents seem to have special chemic affinity for the "sensory" prior to the "motor" structures. When, steadily increased by them The Manager of the III rant. It is, generally, "bad practice" oftensive, or otherwise mentally aber sound, cross irritable, pugnacious, not only because of his cerebral hyperof the drink and drug arbitue somechain of hyperaesthesic neurasthenia repetitions, he "drags a lengthening "feets worse", so he resorts to the the man is less mentally capable and are left weaker (more neurasthenic) to treataneurasthens with anodyne or ancholic, demented, hysterical, delurendered, by the drug, maniacal, melabnormality has been brought out by stant complainant, but because some aesthesia, which renders him a conhan within the cognizance of the law. chemic action of the drug as to bring times becomes so impaired by the and cerebrascherie. drug again; in this way, by frequent the agent is removed, the structures however, the chemic combination o masethetic drugs, in repeated doses.

Foregreether controls is sure to be is he is predisposed, he has been The whole brain is suite to be

and his general "malaise" is always ticularly bad-practice for him to treat himself in this way; he increases by comes less and less able to stop himmade- worse. dency to mental defect he may have the chemic action of the drug any ten-He consequently

tracts. Of congenital neurasthenics nesthesia (bad feeling), which the al sive, troublesome or dangerous as the safety and the welfare of others de-mand that such persons be removed increased term of detention if they reor longer, according to the grade of months, often six or twelve months definite term, not less than three by jury, and sentenced to an instituspecial legislation, to have them tried the same way as against offending criminals. It is best to have for them society and proceed against them in that they are objectionable members of recognize, in the expression of the law, insane, that is, offensive, troublesome mental defectiveness that they be come they have reached such a degree of alcoholics and drug habitues, when straint, care and treatment of chronic their datasign betweenters, have and by a resort to the use of drug again. is sufficiently restored for them to retheir cerebrasthenia weak will-power cohol or opiate has produced, or tha are cured of the neurasthenic hyperwithdrawal of the drugs, does no sane hospital in a few days after the mental condition when sent to the inlapse after liberation. Their own their alcohol or drug habit; with ar tion for their care and detention for a or dangerous to others, it is best to sist the relieving of their discomfort prove, as experience shows, that they they apparently return to a norma worst managal insane. from society; they are often as often It remerally takes arountly to restore In the State Legislation for the re-The fact that

comes a drink or drug habitue, his neurasthenic parents or ancestry. have been transmitted to them through habitues, it is almost impossible to make complete cures. Their "born-tired" feeling and weak "will-power" cure is very difficult, often impossible. When a congenital neurasthenic bewho have become drink or drug exhibits the necessity for additional legislation respecting the drink and and special legislation ought to be obvisions ought to be made for them. straint, that insane hospitals now havemethod of management and of rewith the others. Under the liberal very objectionable patients to associate out, and then they, as a rule, prove to make a cure. They demand to get riates, or drug habitues, long enough of cases it is impossible to detain inch-Judge of the Probate, in the majority the usual committing certificate by the When sent to the insane hospital under the management of an insane hospita their cases. Every day experience in tained for restraining them. The presthey easily escape. Separate proent law for the insane does not cover

culiar, neurasthenic weakness and "bad feeling", calling for "dope" or "drink", as a heredity diathesis ness". and caffeine, and the by no means in a most natural hereditary sequence of the drug-made neurasthenia of their parents. There is a very ready exand the alcoholics, is developing in the milder anodynes, such as nicotine nervous girls, irritable, wayward boys hol stands at every corner, until we are in popular patent medicines, and on all sides in attractive insinuating ways, it comes about. thenia, until the wonder grows, how it comes about. "Dope" is being cerebral hyperaesthesia and cerebrascivilized society, a particular kind o frequent use of the opiates, cocaine, very abundant in society. agents has begotten a particular, pethenia, popularly called "nervous planation, in this way, for the widening prevalence of the kind of neuras and neurasthenic women and men, a having society filled with crying babies dealt out at the soda-water counters not to mention the tobacco and alco-The so general use in society of The so general use of such

PATHOLOGY OF THE MORPHINE HABIT AND TREATMENT

By S. Grover Burnett, M. D.

Professor of Neurology in the University Medical College, Kansas City, Mo The interest by the profession in

a former paper by me on "Burnett's and other Methods of Treating the Morphine Habit" prompts me to reof these cases, as well as placing then idea of meeting the pathologic status have worked out in detail with the iterate much of the method which ultimately in as high degree of restora a mature is able to unike.

ture is not only deprived of the chance point it is my humble opinion that na-After considerable thought on this

> any member of the body, by putting it to assist in repairing the damage done to the ganglionic cell elements of the habitually drug palsied cell back to physiological working basis. Palsy ing character before any possible time in onset and seriously of a deterioratstarvation changes which are sudden delicate structures by added shock and instead, further damage is done to the hyoscine methods of treatment, but brain in the immediate withdrawal and THE REPORT OF THE PERSON to transfer di

> > quently longer. these resulting symptoms taking place tenderness, sorcaess, pain, stiffness and into perverted or complete disuse and lunatic, for the time being and freoutput to be anything but that of a in the psychic producing structures o disuse results. Imagine, it you can. sudden transformation and see what attempt to restore it to normal by a the brain, and then imagine the menta-

weak. Irail. mental equipoise gone, with relapse inevitable. Any method must be made and without it the pademands in individual cases is not or months. Physiologic restoration mand-whether it means days, weeks ultimately without, at any time during of the physiologic status gradually the present, and the full restoration brain structure? Any method used should be directed first and last to the least possible shock to the ganglionic phine from the patient; any quack will condemn it. practical in its application and reason which can not be varied to meet the tient is thrown on his own resources in other words, meet nature's dethe treatment, interrupting, or perpreservation of the brain power of tion is, how can it be done with the ass, or fool can do that, but, the ques-No skill is required to take the mor-

given in my former paper, and I only both mental and physical forces. ing method, attended by coma, derefer to them now to condemn them ater. First, the acute hyoscine poisonrium and reactionary prostration of The different methods have been

minates the strand where the fire boats. escent glow of his burning brain illuares luctier fumes, while the phosphorpatient lapses into hades and expectorstitutions and asylums, where the drug as is enforced in jails, penal in-Second.—The abrupt disuse of the

Third.—The rapid withdrawal dur-

ing four or eight days.

to twenty days. duction method, Fourth.-The so-called slower re requiring tourteen

only be applied to selected cases if sitive or hypersensitive psychically, ally, who is not sensitive or hypersennaturally strong physically and mentconsideration. The individual who is drastic measure. would be more conserved by less to say that his future reental stability him by most any method; but it is safe stand having the drug knocked out of taking large doses—such a patient can which is of short duration and is not has accidentally acquired the habit and tree from neurotic soil, one who efforts, and the patient's future is a we rely on reason to guide our best To me the forgoing methods can

mental apparatus, and they remain psychic cripples or reterr to the habit. left, to say the least, with an unstable by the radical method, but they are quantities for considerable time, can be taken, many of them, off the drug inheritance, and who have taken large Patients of frail fibre, neurotic by

army of transgressors, unless they tion, the prognosis will be better aid vent peritonitis in abdominal operament exercised to preserve the mental much delicacy and painstaking judgmethods, and when we wake up to the realization that there must be as cases; bad results must follow bad by the brain tissues in this class of take the drug to cover up an underlyment early will save every ease of this pel him to submit to competent treatignorant and unscrupulous, and coming the patient out of the hands of the profession to jusist on the friends keepwill be materially abolished. A united the long list of relapses and wrecks and brain tone as is necessary to pre-Therapy hazards are not tolerated

PATHOLOGY OF THE MORPHINE HABIT

ing insumity—such cases are not cura-

expendic knowledge of the pathology the typical general sampioms of the nours from type if morphine personsation grains dally; sufficing severely, SC47.131 angestion of the viscera; atrophy of drawing appropria principles, replaced by fatt conpulmonary calena and venous heart muscles, liver and kid-1'C115 Anti-1 -- tscleam I. Age 45 years; addicted edena of the brain post-mortem in these cases ne had one week be using hypodermically amorphine morphine upon limited but actor the delicate tech . he died in a few large injection degeneration

narked absence of the normal amount at the chromatic substance. In the cells of the cord, medulla, cerebellum but they had undergone marked subof the central nervous system. and eccentric. The granular, yellow the bodies were retained by some cells. and cerebrain these bodies were defic ignient was increased in all the cells Microsopically, most all the cells of ision, and the nuclei were shrunken central nervous system showed a In the medulla these chromand number, or entirely

of the cortex and medulla "were ex with optical supprours of morphine the cell bodies, uneven loss of the tensively altered", showing clefts of and irregularly subdivided. The cellpregular in outline, the chromatic sodies were enlarged and minutely limusely and unevenly, and were versome months; ded onary edema and venous congestion he statchochrome nerve cells stained Case II - Age 24 years, addicted viscers with no other gross lesons Autorsy.--Extreme pul from overdose.

minute subdivision of the chromatic distinguishing changes in this case. and rads. STILLER WILLIS about some nuclei the chromatic subthe extraded or eccentric nuclei were chromatolytic process, the ragged cell greatest loss was about the nuclei, but HIRSSOIL bunders, the eleft of the cells and the frequent central chromatolysis with and fused together. In area these bodies were The irregularity of aped in irregular masses the irregularity of the

imagination to see why every mor-phine addict has albuminuria part of the time, and many of them have it all the time; why indicanuria is must be met in some degree in addition to the histo-chemic lesional state of condition, present in these cases, and compute the systemic results if you can. All these pathological factors common and glycosuria is not un common. Add to this a general acid of functional paralysis under the drug generation of the vital somatic orof the panereas; a slow, insidious de muscles, in er and kidney and atrophy erate the pathological changes in case oxidation processes. With this picture for toxines, mal-assimilation and subpeaded with all possible opportunity restraint. All natural secretions susgans, resulting from chronic systemic not be ignored in the treatment pro-cess without disastrous results to the before us portant respects with case II. nervous system generally. These can the ganglionic cells of the brain and Pattent. Case III was identical in all imit requires no strain of the Reit-

tained clefts, had ragged borders, hac were extensively altered; they con than a year, still the brain cortex cellespecially in the center around the undergone a Cases II and III were addicted less general chromatolysis

practically out of business. ly displaced to one side, shrunken and nucleus, and the nucleus was frequentnot reasonable that

a dangerous drug, and many patients sible disadvantage. ward it is done under the greatest poshave been killed by its use. Only the whatever repair nature makes afterfearfully deteriorating process, and and coma for three to six days, will cure any morbid condition. It is a lancously. ignerant and unscrupulous would dare nyoscine poisoning, producing shock so hazardously or miscel-Also, hyoscine is acute

insane delirium, produced by the im structive ravages on the brain? mote the reparative process by the demediate withdrawal method, to pro-Do you expect the coma or the

ously? Because any morbid condi-tion propardizing the mind demands delicacy of skill in removing it in a him into a topthetic crucible that would make hades a paradise and the pect? Why treat the subject so seriation, what can you intelligently exno time or aid to the process of restorcircuiting, fusing and burning out of the brain ganglionic cells and gives accepted purgatory without candles an oasis in Sahara! With any method as the morphine; a method that ex-tinguishes his mental lights and thrusts is a blessing as compared to a lost indelicacy of skill in removing it in a gentle and effectual manner. Death that adds further deterioration, a short patient with substitute drugs as bad method? eight days by the rapid withdrawal you expect nature to make in four to What degree of the restoration do A method that fills your

belicate threads of mental life to our sanatorial shacks where inexperienced cal horizon is dotted with unequipped dividuality due to a mind gone wrong. Notwithstanding all this the medi-

> personality to make his word law, study his method well and carry it in the ragged boundary of medical an intelligent physician who has the are future ethical problems. ethics, capitalized on the pronoun "I, ing their patients to such places. These, with that other class just withprofession's shame—shame because of in an isolated room under the care of patient had much better be at home the royalty interest they have in send-

I accept every morphine addict as a scheming, unreliable sort of a devil, a red, white and blue devil with surlooked. In treating each case I reason that the pathological or crippled cell base is to be repaired, but the patient's condition as a waole must be reckoned of all. No liberty and no untrust-worthy visitors are allowed till the morphine is discontinued. Every underlying insanity. morphine is not the covering of and cocaine in catarrh snuff, boldly arranged on the patient's dresser. avenue of obtaining morphine must be obstructed. If in doubt, when and the average trained nurse least the inherent stability and recuperative powers; and above all, be sure that the to last her all summer. These precau patient without notice to another room and examine all defects left beready to begin treatment, remove the in managing his case. I trust nobody prises to be added; no plea or promise tions cannot be successfully over sewed. hind him. I have found morphine in from him can change my judgment tace powder, toilet lotions, liniments patient had enough morphine d in the tucks of her white skirt The physical and mental vigor:

thoroughly waking up the vasomotor voted to the The first two to four days are demembranes secretions, excretions

a grain of calomel divided in eight and put to bed for two hours. Give the patient in hot water and shower hrst day give a hot bath. Then stand or dysenteric attacks. If they do occur your method is faulty. The cret; tend to them first, last and all apparatus. This is the therapeutic searousing the metabolic processes, inpurging the bowels. If acid fermenta-tion disturbs much, a few doses of bicarbonate of soda will correct it. at intervals, followed by the phosphate 10 a.m. daily, being guided by the doses one hour apart and enough nim with tepid or cool water, rub wel occur your method is faulty. the time, and there will be no diarrhea treatment of these cases requires good and repeated as it is necessary in the ments and coax them to natural resarouse the drug paralyzed cell elewhich will follow in many cases from the high degree heat baths with their tionary depression and undertone of creasing secretions and excretionschemical and light rays, thoroughly other form of bath. It gives the heat the shower or spray, as superior to any use the electric light bath followed by with the aching morphine pains. suffice. Never make the blunder of of soda, to regulate the secretions wil vasomotor reaction never to exhaust breakfast to flush the bowels the next judgment to prevent exhausting the humid atmosphere. The bath will the nerve and vascular mechanism function processes without any reac the secret in restoring the normal the patient, phosphate of soda one hour before ponses. High degree moist baths sufsary awaking process to purge and half to a degree and a half, a necesraise the body temperature from a (two to tour one-eighth gr. tablets) This with the hot baths will do away ent to raise the body temperature Continue the hot bath at Just enough calome

patient and increasing the terminal neurasthenia which comes, in some degree, to all drug convalescents.

The only originality I claim is the

The only originality I claim is the delicacy in applying the method to meet the actual therapeutic demand of each case. The idea is to allow nature time to rally to the extent of taking full charge of and to be able to control the function of every cell, as fast as the morphine shackle is removed from it. By doing this care fully, tediously if necessary, nature receives home every integral liberated function, and at the finish there have been no destructive clashing-tissues at war with themselves, as it were, but recuperation, rest, saving and building up from the start.

ing, use a solution containing 1-30 gr plete record of the "S.S", refill will dose given from the M. (morphine) bottle is replaced by taking the same amount from the "S.S." bottle. In bottle is filled with a simple solution and marked "S.S." Each reaspoonfu noon, and 4 and 8 p.m. A second bottle of the same size as the M a teaspoonful at 8 a.m., 12 o'clock each teaspoonful. Mark the bottle contain two grains of morphine to ment (six ounces equals 96 grs. to last twelve days). These solutions treatment (four ounces equals 64 grs. grs. to last six days) an intermediate ounce solution accordingly as the study of the patient will justify a shorter keep the patient comfortable for twenty-four hours to be, say eight reveal variations. With the foregoatic demands. Also, deception by the to last eight days) or a longer treattreatment (three ounces equals 48 grains, make up a three, four or six this close mathematical manner perfect touch can be kept with the system Finding the required amount to meaning morphine, and give

sulphate of strychnia and 1-100 gr. of sulphate of atropia to the teaspoon. Give this at 6 and 10 a.m. and 2 and 6 p.m. Decrease the atropia if necessary, but get is effect and continue the drug while the morphine lasts. The strychnia should be gradually increased to as much as 1-20 gr., as the morphine is decreased, and continued for a time, as indicated, after the

When the patient is free from morWhen the patient is free from morWhen the patient is free from morphine continue the regular dose of the
simple solution for a week or two.
Never tell the patient when the morphine is discontinued for he will get
restless and misst on going out toc
soon. He will not know when he quits
it if he is not told. In a series of
forty eases treated by this method not
one of them knew when the drug
was discontinued, and there was practically no suffering. One of these
cases sent to me by Dr. Robert Sloan
had an organic heart lesion with an
enormous cardiac hypertrophy. He
took sixty grains of morphine daily
still he never lost a single night's sleepand in ten weeks he walked out a perfect picture of health.

The dose of the in-redients of the solution varies frem one-half to the full officinal dose. There is nothing new in it and no quack mystery. It is simply to know the physiological action of the drugs, their indication and to combine them accordingly. This differs from the ordinary "bitter tonic" bluff offered to disguise the ignorance of many writers.

norance of many writers.

Each drug of the solution is given with a business intent toward undoing what mischief the morphine has done to the skin, mucous membranes and the glandular apparatus; with the intent of flushing every channel and restoring normal assimilation. Here they are in a general way: Hydrastis for its action on the mucous mem-

oon, of glands and as a diuretic; pulsatilla and for its action on the skin and mucous necesnecesthe lum, as a pungent, heating stimulant, adding absorption and acting as an inarterial awakener; even sativa, as a arterial awakener; even sativa, as a set the sedative for the brain and nerve inseed centers and to reduce morphine cravity and the hypersylvest of the

aiding absorption and acting as an arterial awakener; evena satura, as a sedative for the brain and nerve centers and to reduce morphine craving; capsicum, to allay the tendency to pain, and the hyperesthesia of the whole alimentary tract, due to being released from morphine anesthesia, lessening irritative reflex phenomena from the abdomen to the nerve centers and to force absorption; nux vomica, as a bitter stimulant and tonic to the nerve terminals of the mucosa and muscular fibers of the bowel; red einchona, which, in addition to its well known effects, is a good bitter and provokes considerable intolerance for both liquor and drugs.

The foregoing, in various modifications, enter chiefly into the formation of the solution in which the morphine is incorporated. I always dissolve the morphine in a minimum amount of hot water to insure solubility. This combination is very different from the so-called "bitter tonic," and contains harmless drugs, though they are all individually playing cascarets with morphine—that is working while the morphine sleeps.

The only objection that can possibly be offered to this method of treating the morphine habit is the time consumed and compelling the patient to discipline. The same can be said of the cipline. The same can be said of the treatment of a broken leg; but the question is one of repair, and this requires time; any old helper carenove the splint (the morphine) but a wise head is required to correct the deformity (mental perversion) and to judge as to the perfection of repair

(mental restoration).
While I am not yet ready to say

ALCOHOL IN MEDICINAL DOSES

chemical deterioration to the gang-lionic brain cells, as quoted in the that all opium eaters of six months or more duration are insane persons, still pathological study. of treatment which will add further reason I am opposed to harsh methods judgment acts, they are, in a degree, both insane and criminal. For this from the standpoint of associated

or nurses. Also, that many physicians one exception, have either been physi-cians, members of physicians' families Note.—The last forty cases, with

> professionally, and our medical boards should be impowered to per-petually revoke their license to pracfessional position allows close associa-tion. Great cunning is enacted by Sno selves with companions in debauchery. he sole purpose of surrounding themsome in making addicts, of others for their wives or others where their prousing morphine will make addicts of hey become centers for the habit sow associates, socially, morally and For this reason they are danger-

PHYSICAL EFFECTS OF ALCOHOL IN SO-CALLED MEDICINAL DOSES

By G. E. Benton, P. H. C., M.D., Chester, Va.

says that there is a moderate or per-University, set another standard and limit is today used as a dividing line between moderation and excess by many of the leading insurance comamount that could be taken without il half ounces of alcohol to be the largest in 1864, declared that one and onean English physician, Dr. Anstie, who Some insurance companies, however have adopted the limit suggested by notes of warning relative to the action effects in twenty-four hours, and thi medical profession is concerned tactorily determined so far as the a medicinal dose has never been satisand more or less continued. Just wha amount of alcohol may be considered especially when frequently repeated of alcohol in so-called medicinal doses study of alcohol by the leading scien All along the line of the specia I. Able, of Johns Hopkins VI are recently

by one, or at most two glasses of wine, ten per cent, alcohol or one pint of beer, or their equivalents in terms of alcohol in twenty-four hours. It is thus seen that Dr. Able's limit is about one-half that of Dr. Anste's, or not to exceed one ounce of alcohol in twenty-four hours. authorities in many fields, from the writing of economists, explorare quantity I believe to be represented during a long period of residence in European countries, and this moderlastly from my own observation clude from the opinions of medical missive quantity of alcohol. I conand military authorities, and

sented a very interesting and scientific paper to the New York Academy of Medicine last March on the alcohol that you was that "That in view of society it is of vast importance that the physical, economical and moral, upon the influence of alcoholic beverages Mr. S. P. Beebe, Ph. D., who pre-

> three standards from three different sources by men of unquestioned ability, who have studied the effects of alcoards having a range only from one an unbiased standpoint, these standabout six ounces of whiskey (two or moderate use of alcohol, and states sumed within twenty-four hours, and the larger amount admitted to be near to three ounces of alcohol to be conof a moderate drinker. Thus we have sidered to be the near or upper limit ing during the last fifty years, and at are quantity has been steadily decreaswhich might be classified as a moderthat the maximum quantity of alcohol chiefly concerned with the so-called truth in regard to their physical effects be known and taught." His paper was tol on the structures of the body from present an amount corresponding to

of memory. And, also, that if a single dose of eighty grams (two and fouras one ounce diminishes the acuteness of all the special senses; sight, hearing, touch, taste and smell, and also re-Professors Krapelin and Kurz, of Heidelberg, have shown that the increase of effect is produced. ed within twenty-four hours a gradual four hours, while if this dose is repeatperfectly, but leaves behind an after effect which lasts more than twenty effect does not pass of quickly or fifths ounces of alcohol) be given, the judgment or sense of propriety, and tards the mental processes of reason effects of so small a quantity of alcohol the upper limit of a moderate drinker

conditions, and by admin-

All of the scientific study of the cf-

The human body is capable of eliminating alcohol pretty completely if taken in small quantities at a time is paramount in individuals who be-lieve in the use of alcoholic liquors. of so-called stimulation begins to wance doses, but the tendency to add a second properly diluted and adequate time al lowed to clapse between consecutive liest as soon as the feeling

> any other drug than there is to the time allowed to clapse between doses. there must be much less importance attached to the permissible quantity of a single medicinal dose of alcohol or peated medicinal dose. so pernicious as the too frequently reanything short of a lethal dose is not applies to all other narcotic drugs; of safety for repetition. This also ially after a little experimenting but they many times seem to lack the abilalcohol may be for themselves, especity to decide what a medicinal close of man or woman has probably the abilone might be a toxic dose for another. Especially is this so in reference to the uals; therefore, the medicinal dose for matter of amount in different individnize the personal equation in the rational limits. All must also recogious results from its use with so-called whether or not they admit of perniceffects of alcohol result from excesses; requency of repetition. All will assert that pernicious Every sane I heretore,

degenerations might be detected. special attention to the study of the organs were taken many defects or All of the scientists who are giving

erate drinkers who, after some years indulgence present outwardly little or

no signs of physical degeneration, while if a close account of all of the

physical conditions of the tissues and

cohol on the human system consists count of the results taken. The un-scientific study from which we hear so many quotations of the effects of alat varied intervals and a careful acistering medicinal doses of alcohol experiments conducted under favorfects of alcohol on the physical being is the result of observations and

only of the casual observance of mod-

much the same conclusions as the realcohol question now are arriving at

ALCOHOL IN MEDICINAL DOSES

experience, and also that much of the which would much more advantagegood clear judgment. otherwise, is the result of habit or routine rather than an expression of both by the medical profession and sion I have formed from my personal it is usually prescribed is the concluously take the place of alcohol where promiscuous prescribing of alcohol That there are many other drugs

custom and routine rather than know. The knowledge of the effects of any drug on the physical tissues and organs of the human body is the first requisite generally will restrict its promiscuous of the action of alcohol by physicians evident to me that the true knowledge alcohol is a drug, the knowledge of the action of which has had very little close study by the majority of practiessential to rational prescribing; and

use to a very large extent. Now, in relation to the action of

> conclusions of the leading students the body, I wish to refer you to some alcohol on the tissues and organs of alcohol question. who are engaged in the study of the

drugs on the brain and other tissues of the body.

Also, Dr. J. Barr, of Liverpool, which are used to determine the ciwhich have been invented by them omy by virtue of their extensive study equipped for the study of the action of the highest renute are most thoroughly fects of alcohol and other narcone and experience of both normal and pathological physiology, and the posdrugs on the human or animal econtwo eminent gentlemen, alienists, o berg, and I only need add that these Krapelin and Kruz, of Heidelthe results ascertained by Professors instruments of precision, session of many delicate and intricate have already referred to some of most of

sure and the diastolic pressure within the dilated vessels. The venous prestolic period is due to large waves in leads to fatty degeneration of the a protoplasmatic poison on the museunervous system, and its direct action as supplied with muscular fibers owing arteries and all of the arteries well tion is to produce dilatation of the summarises the result of his study as England, in a very meritorious paper published in the British Medical Jour-nal for July 1905, under the title of large bounding pulse with short sysput from the heart is diminished; the pressure is lowered. The systolic out-From these causes the systolic blood marked action on the eardiac muscle. lar fibre. It has a singular though less to its paretic effect on the vaso-motor icinal doses of alcohol on the circulafollows: "The effect of repeated med-"Alcohol as a Therapeutical Agent," heart are also temporarily mereas-A long continued use of the drug

> leads to bronchial and larvngeal ca-tarrh, and hastens the demise of the impairs assimilation and nutrition, and effect to all forms of tuberculous dismunity. Alcohol has a predisposing and interferes with the action of impatient. hastens proteids destruction; it also illa, weakens the cardiac muscles and patient to the toxic effects of the bac ease; it lessens the resistance of the sistance to acute and specific diseases sens phagocytosis, diminishes the re elasticity of the arteries. Alcohol les ties with the permanent loss of th cardiac muscle and chronic mesoarteri

Personally, Dr. Barr does not know of any specific fever in which al in all chronic nervous diseases. system, its use should be interdicted the affinity of alcohol for the nervous cohol can do any good. Because o

inflammation such as crysipelas, pywas I made trial myself of the effects of withholding alcohol I found how gical maladies excepting head injuries and in my early years I naturally fol-lowed the practice of my teachers but of special value in all forms of septic believe, that alcoholic stimulants were teachings. It was commonly held, I how gravely mistaken had been the ter of routine for every kind of surstudent I saw it used almost as a matas an aid in surgical treatment. As a dispensed almost entirely with alcohol ence, says: "For many years I have ponds with Dr. Gould's clinical experiwith the reported results of the experistudy of the effects of alcohol in surments of Dr. Abbott, published in the Pierce Gould, M. D., M. S., F. R. C. S., surgeon to the Middlesex Hos-New York 1896, which exactly corres-Journal of Experimental Medicine, gery and comparing the conclusions pital, England, after a careful clinica

> sue waste, to increase the elimination that its effect is to dry the mouth, fur the tongue, cloud the intellect, lessen are few in which its influence is so the ability to take, digest and assimiwholly harmful. It has seemed to me, late food and do nothing to lessen tisthere no cases which require alcohol no doubt whatever, that not only are son of cases in which it is given with can only be arrived at by the comparinot be estimated; a right judgment cohol is always given, its value can-Having made this experiment, I have hose in which it has been withheld experiment or experience. Where almia, septicemia and hectic fever. solely on tradition unsupported by any rustworthy evidence and untested believe that this belief is founded poisons or to maintain the strength

The results showed that there were no er ounce of alcohol fifteen minutes beman was given the one and one quartaccurate and simultaneously adopted arranged so the test was scientifically quired to abstain during the experimore errors On the second and fourth day each one exception of enforced abstinence to every day life of the men, with the mental period, and every detail was 15 per cent, less than that done with amount of work done with alcohol was tore the regular working test began setters. The subjects were all accussome proofs of the influence of alcoof an experiment conducted in his physiological laboratory, which furnishes of the heart, or to arrest disease.

Dr. Aschffenburg, one of Prof. form of Greek wine, each to four typeone quarter ounces of alcohol in the processes by administering one and hol on practical work involving menta Krapelin's pupils, reports the result THERE HELLI

out it. Here we have a scientific demonstration of the effect of an allowable medicinal dose of alcohol a little less than Dr. Anstie's limit, administered but once in twenty-four hours and reducing the output of labor involving mental process to the extent of 15 per cent.

such as uric acid which are in-imical tohelp a fact which at once tends to draw a distinct line of demarcation between ala pharmacological action that cannot toods, fat and carbo-hydrates. Another matter must be emphasized, cohol and the two non-nitrogenous throwing into the circulation bodies ily oxidized, is at all times liable to obstruct, in a measure at least, the and fat, but alcohol, though more easwater or are transformed to glycogen may serve as a food, i. e., it can be cohol, writes as follows: "It is true and it is that the form in which alcooxidative processes of the liver and simply burned up to carbonic acid and hydrates and fat. The latter are gerous side wholly wanting in carboand work. It may to some extent take oxidized with the liberation of heat that alcohol in moderate quantities in discussing the tood problem of altrue non-nitrogenous food." has in some other form. To conclude: than an equivalent amount of alcohol wine, for instance, has more influence hol is taken is of importance. Port probably of other tissues also, thereby, tion. the place of fat and carbo-hydrates, be considered as playing the part of a on the amount of uric acid secreted be ignored. It reduces liver oxidabut it is not a perfect substitute for Let of the healthy man alcohol cannot Prof. Crittenden of Yale College, It, therefore, presents a danadjunct to the ordinary daily

of the disastrous effects of alcohol in than the medical profession. was first to be convinced of the truth dogma, to impress the profession and scientists who have realized not only seemingly an almost futile effort on the centuries and while there has been only, and that a little alcohol was good ach and digestion, but this we have excessive quantities on both the stomabout alcohol and its dangers rather scientious labor by being dubbed with the title of "cranks" and "fanatics." tion of the truth and the teaching of the fallacy but the danger of such part of a few hundred physicians and for the stomach and aided digestion. been taught is due to the excessive use been rewarded for the hard and cont, and who have, I am sorry to say, he laity with the necessity of recogni-This dogma has been prevalent for am also sorry to note that the laity Every one is thoroughly convinced

the facts which I will quote,—while alcohol is capable of increasing the contained in the food stuffs, alcohol as is well known, the secretion of pepamount of the flow of the acid gastric achs and from dogs, which ultimately and experiments conducted within the Inntic City, at the meeting of the A. M. A. in June, 1904, reviews the sub-Creek, Mich., in a very extended paper read before the American Medtive to the action of alcohol upon disin depends upon the stimulation of juice it limits its protolytic properties, furnished corresponding evidence of the gastric secretions of human stomof dogs and within a test tube from stomachs of human beings, stomachs ject and quotes the opinion of numerical Temperance Association at Atous authorities from both observation zestion. Therefore, just a few words rela-Dr. J. Kellogg of Battle

> stroys its activity. And again, Hann proves that the effect of alcohol to inalso in the acidity. acidity is followed after a few doses hol is that which increases the flow of gastric juice and that the alcohol dehad been administered by a decrease but that the temporary increase in to conclude that the water in the alcotity of alcohol, consequently it is sane same proportion as will the same quanof the protolytic properties to just the of gastric juice without any reduction properties. Experiments show that an does not possess the power to stimuooth in the amount of secretion and ounce of water will increase the flow ducing or destroying these protolytic late these glands but is capable of re-

Dr. Kellogg reports the average result in from thirty to fifty stomach fluids obtained from patients to determine the degree of protolytic activity, both with and without alcohol, employing the method of Mett, filling small glass tubes with egg albumen which had been hardened by dipping them in hot water, then submerged in the gastric fluid twelve hours in an oven maintained in a temperature of 100 degrees F. The degree of protolytic activity is estimated by the length of the column of coagulated albumen which has been dissolved ent of the tube. This is measured in millimeters, the average for normal stomach fluid is 4mm. The following is a summary and some of the results of some of these experiments.

In the first series of observation the average of protolytic activity of the stomach fluids employed was six mm, after the addition of one per cent, of absolute alcohol the activity was reduced to two mm.: under the influence of five per cent, of absolute alcohol

the protolytic activity entirely disappeared.

In the second series the average protolytic activity is found to be 6.5 mm.; the addition of one per cent. absolute alcohol reduced the average to 1.2 mm.; with a five per cent. solution of alcohol the protolytic activity was reduced to zero.

In the third series Rye whiskey was employed. The average protolytic activity of the gastric fluids was 4.25 mm.; the addition of one-half of one per cent. reduced the activity to 2.3 mm.; of one percent, to one and eight hundredths mm.; and of five per cent. to 0.2 mm.

These tests demonstrate the action of alcohol on the protolytic activity outside of the body.

Now, allow me to record just two experiment by Dr. Kellog, in which he uses alcohol in connection with an ordinary Ewald test breakfast.

First, Mr. P. ____, nurse, age 24, in excellent health the following figures were obtained:

	42.	4 (11)	ensin coefficient
3.012		1,382	Pextrin
2,046	*	3,226	Haltose,
.362		SEL	fixed chlorides
.168		1.20	test combined chlorin
2707	-	1150	one hydrochloric acid
.602		270	lotal Chloren
(2)4四	Street	.1108	total activity
2 oz. bran	.,	est med	7.
The street gray		Transla	

Comparison of these figures shows that acidity of the gastric juice formed under the influence of brandy was not materially increased, the difference being only .006 gms. free hel. was diminished, the amount later being less than one-half that without brandy. The total chlorin was very much increased, but this was due to the large increase in the fixed chlorides. The

smaller quantity of Maltose in proporwith salivary digestion. But the most of the protolytic activity. The Mett's tion to Dextrine shows an interference inhibit protolytic activity. sufficient alcohol present to absolutely when the gastric contents were re-moved; nevertheless, there was still stomach contents. This proportion tion of ten per cent., of the total was sufficient to constitute a proporthe addition of two ounces of brandy hol intrduced with the test meal by length of time. The amount of alcothough left in the stomach fluid 32 hours, more than double the usual tubes showed no digestive action alnarked difference is the total arrest by absorption by the end of the hour, must have been considerably reduced

010	210	entral chlorin
910	5. %	ree hydrachlone acid
37.8	-	hlorin
3091	2000 gms.	otal acidity.

A glance at these figures shows that the total activity of the stomach is diminished to a remarkable degree. The total secretion of chlorin was decreased more than 20 per cent., by brandy. The amount of free Hel. was diminished more than 22 per cent. The pepsin coefficient was reduced from 4 mm., Mett's tube, to 1 mm. which means an actual reduction of

digestive vigor in the proportion of 16 to 1.

In another case the pepsin coefficient was reduced from 4 mm. to 2.25 mm., which means a reduction in the proportion of 16 to 5.

The comparison of these figures shows that the acid of the gastric unice formed under the influence of Brandy was not materially increased, the difference being only 6-1000 gms, free Hel, was diminished.

and not repeated frequently, in fact, all of these experiments were conduct-ed with only one dose, none of which we cannot forego and which is intendexperiments and the proof of which seemingly permissible medicinal doses use of the drug, medical dose or the rational medicinal question in his mind as to a rational fession the actual effects of alcohol in cal experience and from laboratory furnish their evidence both from climbeen quoted here from authorities who draw from all the evidence which has recognizes it as truth there will be no truths about the effects of alcohol on ed to impress on the minds of the prothe tissues and organs of the body and Equip any sensible physician with the exceeded in amount Anstie's limit. am convinced that just as soon as he The conclusions which I wish to

Every day's record shows added evidence of the pernicious effects of alcohol on the human race that are many times more than appalling, yet, there is not an instance on record where total abstinence has resulted in anything harmful.

THE ALCOHOL CULT

By John Madden, M. D., Partland, Oregon

Concluded from page 115)

stanzas quoted in the beginning of this strangely exemplify the truth of the of degradation, gives to the personages deed happiness, their deepest depths Does not our reading of these things most disgusting element of brutality. their highest possible delight, or inof social intercourse as well as their of his creation their dearest element life he portrays, gives to his characters spirits is the most essential part of the appears good in it, and in every chapset forth as faithfully as that which drinking-of wine and ale, or beer or ter of this work of the great master So we have the evil of drinking

grubber is made to see the emptiness of such a life when he is shown what lover of his kind, the smiling, happy sive, brutal selfishness, he becomes a arates him from the spirit world. A miracle is wrought. Scrooge becomes miserly grinding, squeezing old money hated, shunned, feared for his repulan ardent philanthropist. Despised. heart. The intensely selfish, grasping, will. It is beautiful, perfect, an epic in prose which has to do with a feat iies just beyond the screen which seping, softening, enlarging of the human prehensive of intellects,-the subducomplished by the keenest, most comgreater than anything that may be accomplished in diplomacy or war, greater than anything that may be acbroad, deep spirit of peace and good ature can equal it in its intense hu ever written. Nothing in all our litermanufy, its generous charity, and doubt, the greatest Christmas story "A Christmas Carol" is, without

optimist, the generous giver to the poor.
We will not stop now to interpose any objections based upon heredity or

tamily alive. everything about it, the combined handiwork of the happiest, simplest normal little brains, gives the humble into an unusual quiet, and correspondsweetened by Belinda, by Peter, wonderful apple sauce indeed, the Christ Child Himself were ingly increase the activities of their thes force their normally active bodies cripples often are because their infirmcrippled child, wise for his age, as happiest of men. Try Tim, the dollars and a quarter-) per week, poor to poverty, overcoatless, shabby in clothes so old and rotten that they Cratchit's house. All the family is assembled. Martha has come from which the characters of the story pudding, wonderful potatoes mashed ricast, wonderful goose, wonderful feast a sense of holiness, as though, Cratchit is upon this blessed day the by their weight and tenderness, a parents, brothers, and sisters. Poor, ner, the Christmas feast in Bob are concerned. This is the dinlaborer at fifteen shillings (-three are all but ready to drop from him take of the Christmas dinner with her the place of her employment to parenvironment to show how improbable any objections based upon heredity or cheer. Let us examine one of the very spirit of Christmas is a sudden conversion of this kind ct us accept it, enter into its spirit, wonderful

But the best of all is yet to come. It is the apotheosis of the Christmas feast—the inevitable bowl of punch. This is served in "two tumblers and a custard cup without a handle. These held the hot stuff from the jug, however, as well as golden goblets would have done; and Bob served it out with beaming looks while the chestnuts on the fire sputtered noisily."

Now the feast partakes in character of a religious ceremony. Simple Bob solemnly proposes the health of Scrooge, "the founder of the feast," whereat his wife flushes angrily and protests with indignant right.

"My dear," said Bob "the children. Christmas."

But Mrs. Cratchit is not to be so easily placated when the character of old Scrooge is so vivid before her. Bob has to repeat that the children must be considered, and that it is Christmas Day, and for her husband's sake she drinks long life, a merry Christmas, and a happy New Year to Scrooge. Thus the climax of the feast is reached when cups of hot punch are held in their hands, while words of forgiveness and good will are on their lips and in their simple hearts!

lost in that subtle spirit of human ereit is, then try to formulate what it has while over the Christmas Eve celebralonger upon this wonderful Christmas wine or punch or any other alcoholic wine enters, but space will not permit. other incidents of the story into which tion in the office of Mr. Fezziwig. subject carefully read "A Christmas Let those who are interested in the We should like to point out many expurgated edition with the story as Carol" and try to recast it without We should like to dwell a while We should like to linger a let him then compare his

gariousness, good fellowship, good will—in short, every influence which brings men together to be happy in common cause.

A writer's own personality is invariably reflected in that of the characters he creates. He unconsciously emphasizes that which is important to him, that which stirs his emotions, be they pleasurable or the reverse. Love is a universal emotion, therefore love finds its way into every romance. Dickens undoubtedly made conspictions those things which appealed to him; condemned, ridiculed, sattriced those that were hateful to him; praised, commended, dwelt lovingly upon all that seemed good to him.

There is no doubt that he was a convivialist, no doubt that he was fond in no ordinary degree of the good things of the table, both as to meat and drink. His pages are literally filled with good cheer, with the eating of kidney-pies, becfsteak-pies, porkpies, with tripe, with stews, of all sorts, such gastronomic horrors as might well be calculated to give one of less vigorous habits and digestion a chill of despeptic night-mare fright, were his chief delight. No wonder he found relief in walks of from ten to twenty miles in length! A vast amount of physical activity must have been necessary to make such does bearable.

We do not need, however, to get at Dickens' convivialism through inference. We have his direct testimony upon this matter. His "American Notes" is a true record, no doubt, of his trip to America in 1842. Almost on the first page of this volume we find the following: "I have not inquired among my medical acquaintance whether turtle and cold punch, with hock, champagne, and claret, and all

comparatively early age of litty-seven, shines forth from every page of his vivid portrayal of English life. The stitution of the great master may have we pass beyond the limits of justifiable change." A formidable list, surely, calare peculiarly calculated to sufter a sea of oxidization because of the alcohol diet, combined with a lowered power about by a deposit of incompletely oxdition of the arterial coats brought and justifiably taken, to picture a congreatest modern novelist died at the suffered from the good cheer which conjecture if we suggest that the conmost robust constitution. culated to do violence in time to the an unlimited order for a good dinner, the slight etcetera usually included in shorten one's days. work alone, done voluntarily, does not pressure at which he worked; but hard pen? We are well aware of the high us much more from his wonderful natural constitution should have given cluding that one of such vigor of imbibed. Are we not justified in con-It is only a short step, a step naturally from a rupture of a cerebral vessel. Nor shall

excess, but only that many great strued as a belief in habits of alcoholic any degree the result of alcohol indulthousand and one eccentricities of the Dickens times, places, and people, in tesque shapes, scenes, language-the fluenced by alcohol? Were the grorat of his wonderful imagination inwith Dickens' convivialism Was any that presents itself to us in connection with a certain kind of tobacco. best poetry when he had a pipe filled cotic stimuli in order to be at their writers have seemed to need their narinsinuate anything which could be con-There is still another consideration Temwson, it is said, wrote his Surely we do not desire to

moonlit night, like the full-voiced silent, solitary, irritable ascetic, whose dreams were the only realities of his sounding after out in the summer? of Dickens than is the reed of Pha ment making music to a ghost of life. flesh and blood. Hawthorne the creatures of his own race, in warm more delight in the airy spiritual creamystic, who took a thousand times trast with him. Hawthorne, the Dickens but as unlike him as it is pos sible for one man to be unlike another wine song is no more like the chorus divinity upon a ghost of a day. the moon light-a ghost of an instruspiritual, soft-tuned flute, playing in him correctly, must be the lute, or the god is very different from that of he plays at the pedestal of the winefind that the instrument upon which tions of his own genius than in the sonal acquaintance with them of a most intimate and loving kind. Condon stout" who did not have a perpeculiar genius, and of the "best Lonmuch gusto as he wrote of Micawher's biquors and the easily made brew of punch. No one could write with so not at all certain that he did not find more properly, a Gambrinus, for it is ready pen. A very Bacchus he was, or imagination and to set in motion his each never ceased to excite his active little peculiarities and mannerisms of loves, hates, wealth, poverty, wisdom, of their concerns, their Joys, sorrows, his fellows, who thought only of them, ious man, whose love was confirmed to was pre-eminently sociable, a gregarextremes of the social world. personality. Indeed, they stand at two in character, mental attainments, in his greatest pleasure in the malter oolishness, and the thousand and one Dickens. His, indeed, if we judge Hawthorne was a contemporary of You would certainly expect to

THE ALCOHOL CULT

he doese. Take up J N. March, Lauri is a newborn he treats on it, and so nail turn to the last chapter of the first chapter is a wine. Dominally is hemen we after un odit os og oan agent the fact that his housed no and he says: Just exhert that Havenere 5

techers, was that they had many pleasin ends along with them. Non-relays th misches glad, and their suger and healther life or my here-"One cause, Thy metric for the party howerer

Ind what is that," asked the

shall see," said the young

them; an omelet, cold towk and some white-frared butler this surprising Recreshments are then set before Donardio then gives to the

Tomase lid not fling open the shorter to obey the order. He brought the office oil "that kept the precious figured from the air." inserted a little cotton wool to absorb From this he extracted the cork, "Tomas v. bring some Sunshine!" a straw-covered bottle

steal the secret unless he could also steal the vineyard in which the Monte is little else left me save the patch of vines. Taste some of the juice and tell Coent, 'the secret of making which Surshing for that is its name. Beni grape can be produced uries; nor would it avail any man to has been kept in our family for centwhether it is worthy to be called This is a wine," observed the There

> sculptor. "'A glorious name, too, said the

its fragrance, for the wine is very lavish of it, and will scatter it all as-broad.*** ins traind's glass and pouring a little likewise into his own. Taste it. said Donatello, filling But first smell

". Ah, how exquisite!" said Ken-

the guest longs to sp again; but the wine demanded so deliterate a pause, in order to detect the hidden peculoffervescing wine, although its delicite "This invaluable Lijuor was of a pale golden color, like other of the rarger of the Italian wines, and, if carelessly and flavor. too long upon the draught it became most othercal charms lay in the tran-sitory life of the wine's richest qual-ities; for, while it requires a certain and arreligiously quatted might be disenchanted, both of its fragrance ities; for, while it requires a certain leisure and delay, yet, if you lingered cluded analysis, and, like whatever else is superlatively good, was perhaps There was a delicousness in its that flavor, that to think pagne mistaken present consciousness. One of its better appreciated in memory than by arines and subde exquisiteness of its piquancy produced a somewhat simi-It was not, however, an for a very line sort of chamif was more a

o'il feel myself a better man for that ethereal potation,' said the sculp-* * * *

said the butler, 'that this rare wine of our vineyard would lose all of its wonderful qualities if it were sent to the market. The Counts of Monte "We have a tradition, signore,

> delicious wine, and always, even to tuned princes, cardinals, and once an they love and honor sit at their board. in the olden time they have enterflask of it for gold. At their banquets Beni have never parted with a single but the Grand Duke kinself could not think the wine except that it were this day, it has been their custom to es it how freely when those whom records that it were

under this roof.

"What you tell mee my good triend," replied Kieyon, "makes me yenerate the Sunding of Monte Beni bean kefore." even more abundantly than before.

flask is uncorked its finest qualities lose little time in making their escape. I doubt whether your last sip will be quite as delicious as you found the list." to end his discourse about wine be-fore you drink off your glass, ob-served Donatello. When once the

ARME SSEC "The effect of the wine was a gentle exhilaration which did not so speedily

sugar, and inorganic salts, separate the ingredients chemically, put them into different receptacles, smell, taste, feel them, and the romance of this, or any other wine's peculiar, god-like to point it out as a very fine example of an important part of the wine-cult creed. Scientifically speaking, it is, of course, the sheerest nonsense. Wine is only the components of which it much alcohol, so much ethyllic ether, spiritualizes everything he touches, but Hawthorne's greatest romance, not as do the ghost-like characters of is constituted. for the purpose of showing how he qualities, will disappear as completely We have quoted all of this from So much water, so

11001. the thousand and one things seen by the timid at night, when examined near day in the light of the sun. Nor or otherwise different from the effects to believe that certain wines affect him walls, and its parans pass as complete-ly unchallenged as do the songs of cathedral organ. in wine is perpetuated and spread abroad. This that we have taken from Hawthorne is indeed, a descripable grind unconsciously that a belief direct playing upon the impressionthat, what he considers something diof the coarser drinks; the fact remains is a difficult for the imaginative mind Christian worship within cathedra tion of wine-worship as sincere as any ecul arly, are "gently stimulating, It is by the subtlety of such inonly plan alcoholic intoxica-

banquets of beeksteak-pie, kidney alian revels. or live kinds of wine and unlimited stew, wonderful roast goose, with four which it was made; that "one of its most etherial charms lay in the tran-utory life of the wine's richest qualicrated ground (consecrated because a could produce such wine) of Monte upon centuries; that only the consc in the house of Monte Beni centurie stand contact with the vulgar air with that this ambrosia was too refined to have been a base fluid to him but for the mysticism with which he was at .e spirit of 27/things and makes his burnt offerings before this spiritual nothing. ness to Hawthorne. He extracts the in all other things, was repulsive to him, and note materialism v.as coarsesecret of its making had been kep out being debased thereby; that the to surround it. It meant much to him foaming ala Coarseness in eating, as Beni could produce the grapes from Hawthorne celebrated no bacchan-The Monte Beni wine would His works contain no

ties"; that it was "surely the wine of the golden eye, such as Bacchus himself taught mankind to press from the choicest of grapes."

Wine in itself had no sacred meaning for Hawthorne. For him there were wines and wines. You recall that afternoon when Kenyon, the sculptor, after his rather surprising efforts to model a bust of Donatello, strolled about the place with senses alert for matters of interest.

"Unexpectedly, in a nook close by the farm house, he happened upon a spot when the vintage had actually commenced. A great heap of early ripened grapes had been gathered and thrown into a mighty tub. In the middle of it stood a lusty and jolly contadino, nor stood, merely, but stamped with all his might, and danced amain while the red juce bathed his feet and threw its foam midway up his brown, shaggy legs."

Disgusting, indeed, must have been this picture to the refined soul of Hawthorne! It was nothing to him, or little to him, that this "was the very process that shows so picturesquely in scripture and poetry." "The memory of the process does not make the Tuscan wine taste more deliciously."

Indeed it does not, and when the good natured, animated owner of the wine press offers the sculptor "a sample of the new liquor that had stood fermenting for a day or two," he had small inclination to put it to his lips. "He had tried a similar draught in years past," and "he knew that it would be a sour and bitter juice, a wine of woc and tribulation, and that the more a man drinks of such liquor, the sorrier he is likely to be!"

Wonderful, wonderful, with what properties a vivid imagination may invest plain fermented grape juice!

> Think, however, how ineffectual are dissipated as mists are disscience crystallized in some society rewould be the calm, cold voice of upon the subject in the way of chemiman of science brings his light to bear human consumption. Yet when the Ambrosia, the drink of the gods, may by impressionable millions! those who do not need the informacent., or less, of the whole people (and port and read by one-tenth of one per cal analysis, all of these differences be, or a base distillation unfit for such report compared with that mystic tion)-think how little the effect of panegyric, in the beautiful style of lawthorne, and read with pleasure

ment. It is generally believed that the world now takes less of alcoholic is, perhaps, a task not beyond the possibility of accurate accomplisha civilization of a hundred years ago deals with that which is long past sign manual of gentility. Very likely we are improving in our ethics of drinking. If we are to beone-quarter centuries ago. Statistics poison per capita than it did one and To hold the mirror up to nature for but an accomplishment bearing the dred years agone-not only a habit gentlemanly habit a matter of a hunget very drunk on good wine was a however, do not confirm this opinion. ieve certain ancient chroniclers, to Much that is written in the present

Let us return again for a moment to Dickens for light upon the subject of drunkenness in England during the reign of George III. "Those were drinking days," says the great novelist in "A Tale of Two Cities," and most men drank hard. "So very great is the improvement time has brought about in such habits, that a moderate statement of the wine and punch

in the Old Bailey when Darnay was tried for treason. You remember that skin, unlimited quantities of the genial poison. You recall that day cited the peculiar capacity of the legal a ridiculous exaggeration." ment to his reputation as a perfect course of a night, without any detrimost unconsciously, consuming still imbibed unlimited wine at Darnay the British Bar, already quite drunk out to dine with him, and that this ting away beneath beneath his own Sidney Carton, in particular, for putcoholic drink, and the capacity of protession in general for absorbing algentleman, would seem in these days which one man would swallow in the other unlimited quantities of wine and bound about his head, preparing cases he had fallen, and that he then rehe was awakened with much difficulty which he left orders to be awakened at ten o'clock. You remember that on the table, a drunken sleep, from expense, went to sleep with his head proficient and ornamental member of he took Carton, part of his counsel stronger drink. tor the morrow, and incidentally, alwith a whole series of wet towels Stryver, where he sat until morning, paired to the office of his associate, from the drunken stupor into which Then is

"Sadly, sadly the sun rose; it rose on no sadder sight than the man of good abilities and good emotions, incapable of their directed exercise, incapable of his own help and his own happiness, sensible of the blight on him, and resigning himself to let it eat him away."

We have not quoted this so much for the purpose of calling attention to the old question, the old puzzle, as to whether want of capacity for directing one's life is responsible for the drink habit, or merely its effects.

Very likely there are instances of both kinds, or that even in the same individual cause and effect may change places at different times in his life.

What we do desire is to call your attention to the implication that one may do any sort of useful mental labor while in a state of alcoholic intoxication as Sydney Carton was that night. This is another familiar popular fallacy, slightly disguised, that there are some drunkards who are pre-eminently capable while intoxicated.

And this case of Sidney Carton as a heavy drinker; surely he was no worse, according to his own creator's testimony, than scores of gentlemen in good society touching elbows with the author even as he wrote of the hard drinkers of three-quarters of a century before.

century before.
This paper, already too long, after the examination of only a half-dozen and that their commendation by inan abundance of proof that the beday periodicals in promulgating the creed of the alcoholic cult, and found of near a score of books and present Atlantic City, 1904), I gave the renothing in force from increased books from two writers, will gain enormous influence in perpetuating all minds, past and present, has an greatest products of the ages is just as strong as it ever was, sults of a mere cursory examination alcoholic beverages which science has the popular beliefs held concerning lief in the virtues of alcoholic beverdemonstrated to be fallacious. direct statement in literature, in the greatest

Men hold to the doctrine of the alcohol cult, to the belief that "sound pure wines, also beers and distilled liquors, are wholesome and good when used in moderation." Indeed, this cardinal tenet of the alcohol cult

is often coupled with some sort of thanksgiving prayer to the wise and beneficent Creator to whom man is indebted for these most precious gifts. The generality of mankind will not believe that alcoholic beverages are

where the frightful ravages of almore ardently defended his faith, more warmly proselyted among his unbelieving companions, than did the those who read, fold hands, pious coholic excess is an open book which telligent mankind is an attorney for the defence of alcoholic drinks. He eagerly seizes upon every scrap of dreadful, that every one is first a user before he becomes an abuser of al-coholic drinks. Moreover, it would worshippers before the alcohol shrine is showing that some hideous crimof terror through the entire body of certain quantity, alcohol is a food under certain circumstances, and in authority of science, declared that who, speaking with only the apparent ago commend the works of a man entire enlightened press a few years unwise excess in their consumption. selves, but of those who include in is not the fault of the beverages them-'this is not use, but abuse." This seventeen of his fellow men. How inal, by mixing wood alcohol with the liquors he sold, was guilty of killing Last autumn the lay press sent a thril his creed. No Christian of early times seem that practically the whole of inconsiders that you are utterly conoseudo-evidence which will bolster up ounded and put to rout, and will not hat the results of alcohol are so recause of this weakness in humanity rom you, tending to show that it is isten to any argument or explanation laving said this the alcohol cultist

and receiving all sorts of inspiration from the divine juice of the grape, ethyllic alcohol poisoning, a hideously city, seven times seventeen thousand the populace cried out for his blood! thousands of their fellows yield up would seem, indeed, that a part of the creed of the alcohol cultist is a with the insignificant seventeen? any one think of comparing these of which is a gay company, sipping sorrowful looking procession of alvictims were in various stages of Yet at this very time, in that same their lives for the greater glory of belief in human sacrifice, so coolly and open grave in the Potter's Field. Did cohol degenerated humanity, one end the wine-god! the other end a pine coffin and 20

sible cause of public harm, in so far majority of the doctors, are actively age caused by incompetence a means of avoiding actions for damabstainers from alechol in order to and telegraph companies must be total as those performing quasi-public tuneinterested in the anti-alcohol side. It but only a part, perhaps less than underestimate it. It must necessarily the people against alcohol. Do not have before us-this task of making course, an individual recognition of the alcohol evil, and it will not be get their places or to keep them. Here tions may do harm when incapacitated influence there is a movement to elimis true that in certain quarters of vast has begun in the medical profession, begin with the medical profession. It practicaly the findings of science in quasi-public servants. through incluigence in alcoholic beveris, of course, a question of dollars, This is a truly colossal task that we Employees of some railroads 1115 in those

without some good effect. But it will not change many religionists of the wine cult in their belief in wine. Great Britain abolished certain barbarous customs which were part of the religious worship of the natives of India. She prevented sacrifices to Juggermaut, and the funeral pyre for widows. She did not, however, change a belief in the terribly destructive parts of the Hindu's creed. Nor will a recognition of the harm alcohol may do when taken by those who often hold the lives of hundreds in their hands, do much to abolish a belief in the cardinal tenets of the alcohol culturists.

If we would do the most effectual work possible in ridding the earth of this one stumbling block in the way of the greatest civilization, the greatest est material prosperity, the greatest real progress possible for it to attain,

the greatest happiness, the highest posterrible belief in the divinity of wine. able of scientific demonstration. Let so great. It is not hopeless. We which blights whomsoever it converts sible spirit of altruism, of humaneness modicum of this to found a school of the millions which they are so lavbut only to the simple love of truth us first make converts of them, not by appealing to passion or prejudice, us stir philanthropists to activity. Let dreadful tree, this horrible religion or schools which shall destroy this direct pleading of the alcohol cause. ishly spending—it may be for libraries honeycombed throughout with in-Let us ask them to give us but Then let us ask them to spend some Let us teach the truth about it. Let -let us go down to the root of this

EDITORIALS

Inchricty a Medical Problem

VERY physician should be a temperance reformer in the broad sense, and a teacher and leader in the study of these problems in every community. Inebriety from alcohol and opium and the sale of spirits as a beverage, is a sanitary problem of enormous proportions, which the medical man of all others, is trained to study, and his neglect to do so is not only criminal, but evidence of profound ignorance.

The medical man who would be indifferent to diptheria, yellow fever, or any other contagious disease, and assume the attitude of sneering contempt at the efforts of elergymen, lay-

men, and women to prevent these diseases, would merit the severest condemnation.

This position of the medical man today toward this tremendous medical problem, will be a source of wonderment and surprise in the future. There is no disease of evil whose entailment of physical suffering and mortality is so great, and so intimately related with the homes of every community, as the alcoholic problem. There is no physical conditions so influential in the growth and life of civilization, which a medical man is so well trained to understand, and to prevent.

The medical man of all others, should be a total abstainer, and tem-

to conditions of rational livingself, and is unable to adjust himself world that he has lost control of himand excessive drinking physician is a his work and teaching. A moderate perance man in the broadest meaning of this term, one whose personal life diseased man, who advertises to the and conduct approximate and sustains

his own life is badly warped and cian who defends its moderate use in of the past is dangerous, and a physiwhich has come from the prejudices knowledge about alcohol, except that spirits, and the danger from its use. cause he should know the effects of the medical man who has no other is an insane man, more so, be-

structive influence, and the means of the leaders in the temperance work to prevention and cure. from alcohol, and point out their deunderstand the evils, which follow Of all men, physicians, should be

and supt. of an asylum at Paris, makes a very strong arraignment of the medup the alcoholic question. ical profession for their failure to take Dr. Lagrand, an eminent specialist

whom the problems of life and growth and conditions which govern the orihe is a scholar, and scientist, to of laws of dissolution. Third, because holic problems are purely questions cause he is a physician and the alcoand every other person. Second, bewhich affect the well being of himself and cannot be indifferent to the evils gin and growth of this great modern against alcohol, and enter actively as a student and teacher of the causes every physician to take up the light is the express and paramont duty of widely published, he asserts that it In a recent lecture, which has been First, because, he is a citizen,

> are of the very vital and intense interest.

efforts to break up, and destroy the evils which follow from alcohol, is criminally negligent of his highest leading temperance man in his com-munity, and who does not lead all concludes that the Dr. who is not a groups a great variety of reasons, and Under each of these heads he

following The reasons are reiterated in the

more thoroughly, and can appreciate and degenerations. He knows them causes which entail miseries, sorrows without medical training. results not clear to any other person with the operation of causes, controlling human life, and human suffering, First, because, he is more familiar

study the results from ignorance of alkınd. example, how the evils of life can be is his duty to teach by precept and it is his duty to point out the dangers of prevention. He should act from Second, the Dr. should be authority on all questions of health and disease prevented and removed. than the reformer or clergyman, and cohol and its effects, far more clearly turn to him on all questions of this spect of the common people, who his knowledge, and command the rediseases, and point out their means the facts of longevity, and recognize in his community. He should know and means for their correction. the poisons of contagious and other Third, his training and oppor-

treatment, either at home or in public in the community, and their toleration institutions. It is his duty to warn case of inebriety, and the means of the culture and growth of inebriates the public of the danger of It is his duty to recognize the dispermitting

and drugs. He concludes that all of saloons, and the danger from inmedical men must take up the alcoproblem will be solved, when the proin the Journal, and are confident that We have repeatedly urged these views practical than any studies of consumpholic problem, and that it is far more discriminate and reckless sale of spirits first to recognize the poison centers ession take it up as a purely medical ion, typhoid fever, or other diseases. he final solution of the alcoholic

Inchriety Among Auto-Drivers

for the accidents. faults of construction, is responsible of determining how far the driver, with their machines, for the purpose Wagons are making inquiries as to the causes of fatal accidents occurring or the machine itself through some Manufactures of Automobile

and respond instantly to the control of the driver. chine, so that it can be halted quickly to perfect the construction of the ma-The inventor is constantly striving

danger element cannot be climinated is clear for instant thought and perhow good a mechanic, unless his brain faults and dangers are almost alto-gether due to the driver. No matter ect control of his muscular system, the The conclusion reached is that the

is followed by exhaustion. and muscular power, with continuous requires accuracy of sense, judgment, fatal mistake; while covering the feelwho seeks relief in alcohol makes a This kept up for any length of time concentration of mental activity. The work of guiding a machine as sane and responsible persons.

He should, of all others, be the

senses, and mental activities below the ing of exhaustion he depresses the

engineer of the steam railroad, his as a machinist, or how large his exous man, and the driver who carries a bottle of spirits is inviting disaster mathematical certainty. No one but a total abstainer should ever be alsee and think clearly, also his con-trol over his muscles. As a result his on a common road,, the consequence of failure is instant and positive. neutralized, where the engine is held A mistake on a steam road is often depends more exactly on the accuracy of his mental and sensory powers. in moderation lowers his ability to and accident which is sure to come moderate drinker is a very dangerlowed to guide a motor wagon. A by the rails, but with a motor wagon skill is lessened, and his incompetency increased. Compared with the perience is, the use of spirits even The machine obeys the mind with No matter how skilful he may be

cohol. in a large proportion of cases.

A New York physician concludes from a study of a large number of due to the confused mental condition of the drivers from the use of alaccidents that 90 per cent, are directly

wagon. Complaining of fatigue, he accepted the advice of a friend to under my notice. A moderate and occasional drinker was touring the members of his family. calculated, was killed with two other country with his family in a motor in front of a passing train. tion, and made the attempt to cross in the secondary stage he lost his cautake with him a bottle of spirits. The first effect was very pleasing, but The following examples came He mis-

Another man, who overcome with fatigue, drank spirits, and while running at high speed, turned the lever in the wrong direction and ran down a steep embankment, and of course, was killed, and all the occupants of the wagon. These are common examples, and show beyond question that no drinking man or inebriate should ever attempt to guide a motor wagon, unless he wishes to commit suicide, and have his friends join him.

H'. C. T. U. at Hartford

The annual convention of the W. C. T. U. at Hartford, Conn., in October, was marked by a new feature, namely, "Medical Lectures" on "Alcohol and Inebriety."

Mrs. M. A. Allen, the Supt. of the Dept. of Medical Temperance, arranged a course of seven lectures, to be given in a separate hall, morning and evening, to the officers and local Superintendent's of the different States, and others interested in the medical side of the alcoholic problem.

Dr. T. D. Crothers, of Hartford, gave two lectures on the History of the Mkoholic Problem, and the Disease of Incbricty. Dr. L. D. Mason of Brooklyn, lectured on the "Anaesthetic Action of Alcohol," and its value in medicine and surgery, and the delusion of its stimulating qualities. Dr. T. A. MacNicholl, of New York, lectured on the "Food Value of Alcohol," and its destructive influence on cell and tissue.

The last lecture was a symposium, and general conference of the value of alcohol, supplemented with a paper by Dr. Shepard on "The Turkish bath as a remedy." Each of these lectures was profusly illustrated

by charts, tables and drawings, and attracted crowed houses of enthusiastic listeners.

This great organization numbering nearly half a million persons have recognized the value of physician's work in this movement which is the beginning of what will be a very popular feature of their annuals in the future.

Criminal Tendencies and Beer Drinking

* * * *

The criminal tendencies of beer drinkers is receiving confirmation in several prominent murder trials. Prisoners on trial for some of the most brutal crimes, are found to be beer drinkers who for years have drank large quantities daily, and have become low grade dements. To many persons, in appearance, they may seem sensible and fully conscious of duty and responsibility.

In reality, they are idiots, with all the brutal instincts intensified, and all the higher qualities paralyzed. All control is lost, and they are merely the creatures of gross physical impulses.

Arterio sclerosis is present, with cirrhosis of the liver, and fatty deposits in all the organs. The system is saturated with toxines and ferments constantly increasing. The blood is unoxidized, and loaded with effect matter, and the brain cells are shrivelled, degenerate and starved.

It is a farce, to hold such men responsible, they should be declared insane and sent to an asylum for life. It is a greater farce, to attempt to determine the degree of responsibility and prove to a jury the canity or insanity of such persons.

thusiastic

Alcoholism and Heredity

R. W. Bevan Lewis, Medical Director of the West Riding Asylum, Wakefield, Eng., in a paper published in *The Journal of Mental Science*, has the following on the subject of heredity and alcoholism.

systemic life; disease is a negative conception, and signifies something logical and pathological reaction can as there is no absolute standard of ance of the moving equilibrium we call or, as expressed by Dr. Allbutt, 'a be but ill defined. one, and so the line betweet physiohealth, the term becomes a relative less than this perfect balance.' Yet positive conception of a perfect bal-Payne, is a state of moving equilibbreaking down the first line of deis that of a very universal reaction o disease, to which I subscribe my belief pacterial toxiemin induced by alcohol because a distinguished pathologist he toxic agent alcohol. I say direct the more general conception of this hsease is the result of a secondary as lately expressed the view that the ne organism to the direct action o "As regards alcoholic inheritance Health, we are told by Dr.

Thus it is that inquiries into individual idiosyncrasies can alone establish when the operation of alcohol oversteps the limits of healthy systemic reaction. When, again, disease dependent for their cause upon external agencies are concerned, whether traumatism, thermal, electric, or vital bacterial infections, everything depends on the impact or dose of the morbine factor, together with the individual susceptibility.

gresses the physiological limits is prob-ably very small, and for the specially one and a half ounce for man, and this is probably greatly over-estimat-ed, an opinion expressed by Dr. Sidof stimulation of the vaso-motor cenapproach to an accurate estimate of the dose consistent with physiological ney Martin. It has always appeared borne in mind. indications which should ever be ened in favor of the second stage of tres tends to be less defined and shortreaction, that the moment this period metric observations, gave the nearest to me that the period of decreased thermogenesis, as defined in my calorisusceptible is very minute indeed. Parkes and Wollowicz estimated it at Thermotaxis affords us, then, clinica ogical limits strictly so to speak hermolysis we transgress the physio-The dose of alcohol which tran-

showed the toxic action of alcohol confirmed subsequently cubation. Ovize also in 1900, and as to the vapour of alcohol during inable. So far back as 1895 Fere proin metazoa, just as the protozoa are directly influenced by the cosmic en-vironment, would be highly improbduced monstrosities by exposing eggs conditions of the germ-plasm is unthing wholly different. That alcohol, like other toxic agencies in the parent, coholism as alcoholism is not inheritmust be met by a direct negative. its immediate environment, the soma ternal blood should not be affected by That the ovum nourished by the mastrange is such were not the case. ed. What is inherited is usually somequestionable; it would indeed results in certain abnormal nutritional Is alcohol inheritable? I think this

vapour on artificially hatched eggs of fowl, 36.7 per cent, of the progeny being structurally defective, monstrous, and of the whole number incubated 17.5 percent, alone were viable.

same for gout; it is the tendency under did the young exhibit the parasite the parental toxamia, but in no case sterile, according to the potency of weakly offspring and more or less to their progeny. True, they were halteridium, did not transmit malaria pigeons, infected by the parasite with gouty tissue-changes mitted; the olfspring are never born to arise in the offspring which is transcertain conditions for gouty changes Professor Ewart would predicate the words, malaria was not transmitted halteridium in their blood; in other Cossar Ewart's Indian Blue-Rock

ofispring of the tuberculous—the dia-thesis is not the disease. Let us for a moment take as an illustration of the growth of tubercle, whatever that may the diminished resistance to the mean, is what is transmitted to the will by some be regarded as proof of and this instance of congenital syphilis symptoms begets a syphilised infant. syphilised mother with secondary loose application of the term "herenal, placental, or both combined-a the inheritance by the offspring of a synchronicity of morbid agency, and simultaneous infection-either germiheredity at all; it is but an instance of definite character acquired by the parantenatal contamination. Similarly as regards tuberculosis It is really not a question of other cases of toxemia. A

Similarly as regards tuberculosis, should it arise congenitally in the offspring of the tubercolous parent it is but an instance of direct infection in utero, yet no proof at all of the here-

predisposition to the growth of the gory of inherited diseases, and when specific infective diseases, such as scaras a germinal variation is the heredity culation, or, as with syphilis, transof infection through the placental cirtubercle bacillus. dity of phthisis; what is handed down the placental into the fætal circulapathogenic organisms do pass from is, of course, positive evidence that mitted by the infected germ. There arising congenitally are but instances sis, must be excluded from the cateet fever, measles, smallpox, tuberculoinstances of heredity transmission. therefore, none of these diseases are tion. In a strict biological sense, in fact, all the

upon the progeny through the paren-tal germ-plasm, we should indeed be acter. If that disturbance of the such as the pathogenic bacteria to the or signs of the disease we know as chronic alcoholism can be reflected toxic agency alcohol, we can on no only by some such elaborate and inin the presence of a mystery explicable which is indicated by the symptoms healthy equilibrium in the parent able; the varied and elaborate tissuesense speak of alcoholism as inheritconceivable hypothesis as that or Daric alcoholism are never inherited by changes constituting the disease chron-Neo-Lamarckian school of to-day. the trend of popular belief, and would nitted. And yet undoubtedly this is characters in this sense are not transwould affirm the negative-acquired tum of biological science of to-day win's theory of pangenesis. be moreover, I presume, upheld by the And so, passing from vital agencies The dic-

An inherent susceptibility of the tissues in certain individuals to the toxic agency of alcohol is universally admitted, and just as specific differ-

animals, as when, e. g., we find that the white rat is immune to the bacillus anthracis, while the common rat and mouse are peculiarly susceptible, so individual resistance to alcohol is a notably varying factor of germinal trans-

still climinate a connate origin. always open to some doubt as we must tablished prior to conception, and is sumed where alcoholism was well at all; in the next place, specific manot instances of heredity transmission mother's blood during gestation-as genital contamination through the have to eliminate all instances of connon-specific? In the first place, we ternal transmission can only be asbefore explained, these instances are transmitted to the progeny specific or est to us is whether or no this acquired natural resistance to the pathological offspring-in other words, is what is predisposition can be inherited by the to alcoholism when indulged in would hol so that an acquired predisposition down one's natural resistance to alcolevel. In like manner we might argue or pigeons naturally refractory to anthrax can be readily infected if deceptibility established, as when hens we can confer on animals an acquired be apparent. But the point of interthat various agencies might break exposure, or fatigue may reduce the indicates how starvation, bad food prived of food, and thus Kanthack words, the natural resistance can be predisposition to disease; in other broken down and an unnatural sus-Again, it has been well shown tha

The transmission of parental qualities is not open to such fallacy; and where an acquired predisposition is clearly transmitted from the paternal side, there we have more solid ground for our contention.

age of the developing ovum as a Ewarr's remarks upon the staleness or stage of development. cannot be safely asserted for a later what is predicated for one stage as the its reaction to the environment; and mal size. I introduce these biological mere in the latter case developed into to us in this connection. potent source of variation will occur result of such environmental agencies considerations to indicate that the fera perfect animal one sixteenth the northe two, four, eight, and even six-teen cell stage of Medusa by separat-ing their blastomeres—each blastotilized ovum is constantly varying in who obtained perfect embryos from vestigations is that recorded by Zoja, organisms, as the sea-urchin Toxoamphioxus by Wilson; whilst in other of the several blastomeres into which ovum. In early developmental stages step by step, through the agency of beautiful experiments in biological indifferentiation. dicate a more fixed and stereotyped pheustes, the isolated blastomeres inthe egg has segmented, as shown in the more labile differentiation of and a stereotyped scaffolding, more or ularity, cytoplasmic differentiation, these developing forces, acquires popfirst isotropous, the cell protoplasm is the cytoplasm of the cell itself. At and that the theatre for its opperation heredity is constituted by the chromatthat general assent will be accorded to we have to note the varied factors inacquired predisposition from the paess modifiable with the age of the in threads of the germ-cell nucleus, troduced by amphimoxuis. I take one for investigation; yet even here ernal side are, therefore, the simpler These cases of transmission of an proposition that the vehicle of One of the most

THE JOURNAL OF INEBRIET

Certain conditions, therefore, morphological and developmental, are imposed upon the germ by virtue of its specific organization; but we must equally bear in mind, in speaking of heredity transmission, that we are dealing with agencies infinitely diversified, subject to elaborate combination and modification quite unpredicable, and that unforeseen forces, not easily suspected and far less readily explained, step in to disturb the mathematical precision we at times hopelessly attempt to impose upon our formulae of vital processes.

a detective organization of the neuron, weakening of that primary attribute tissue revealing itself in a loss or or a molecular degradation of nerveby alcoholic ancestry? I presume it is is, of course, pre-eminently the stamp so characterictic of nerve-cell mechanstock appears above all other forms of instability to be indicated by (a) stability resulting from an alcoholic of the neurotic heritage, but the inisms-inhibition. Functional instability its convulsive nature, (b) its tendency mic periodicity and paroxysmal natised forms of insanity, (c) its rhythto limitation as in so-called systema-What is it, then that is transmitted

The latter time relationships are features especially worthy of note. Epilepsy, chorea, hysteria, the convolving processes (moral and impulsive forms of insanity), and certain systematised delusional states are the first-fruits of an alcoholic heritage: The motor element of mind, if I may so express myself, is peculiarly liable to this derangement in paternal forms of transmission. On the other hand, arrests of development, as indicated

by congenital mental weakness, imbecility, idiocy, appear to me especially the results of maternal toxemia, and largely, if not wholly due to direct poiso ing of the germ or ovum."

Alcohol and Coffee as Acting upon Heart Disease and Nervous Affections

basis of his extensive experience as a muscle. In the course of years, it leads to over-exertion and fatigue of the heart. With special reference to nervous system, and of the abdominal nutrition of the central organs, of the and diminishing it motor ens the heart, by dilating the organ following conclusions: Alcohol weakheart specialist, the author reaches the generating influence upon the heart the reason that caffeine exerts a deorgans. Coffee weakens the heart for induces nervous weakness by underfirst weakens and paralyzes his heart power with alcohol by dilating and coffee, the author points out that the daily consumer of alcohol and coffee the combined action of alcohol and then compels it by means of coffee to under these weakened functional conthinning out the heart muscle, and complish a supplementary process of work to the limits of its capacity, is just as advisable in regard to coffee condition of the organ. Abstinence systematically undermines the normal destruction ditions, the two agents together acby malted drinks and harmiess herb should be more universally replaced (and tea) as in regard to alcohol. Stoll (Leipzig, 1905). On the infusions. caffeine-containing which gradually and power. heverages

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year. ernment institutions, during the past 21,000, persons admitted to the govers of lunacy, in their recent report of published by the English commission-The following table of causes are

* * *

	0	Towns of the last
'n.	3.15	OVERWORK
4	0.0	Adverse on unstances
: 7	0.00	Domestic trouble
9	10.5	Intemperance in drink a consess
1317	16,02	Previous attacks
25.0	19.2	Hereditary influences ascertained

prevented in the near future the term "Heredity" describes a very mentioned in these figures. Also that made insane by drink is double that the commissioners to be but minimum large class of cases that should be figures, and that the actual number These proportions are thought by

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country? Which will yield opium and two hundred thousand dollars, annualports of opium amount to a million ts alkaloids of equal value to that impoppies could not be cultivated in this y, has suggested the inquiry why, the orted. The facts that the American im-

assayes as high as 13 per cent. o country, comes from Turkey. The morphine. best opium is grown near Smyrna, and Most of the opium brought to this

more luxuriantly than elsewhere. could grow the poppy encaper and and wasteful and it is assumed that imported. The methods of growing grown cheaper and stronger than tha mine if there are not climates in the try has taken up the subject to deter riculture, the Bureau of Plant Indus as strong. In the Department of Λg from India, but this is not considered American ingenuity and intelligence it in Turkey and India are very crude country, where the poppy can be A small amount of opium come

of the Chinese market for the great opium fields of India will force the able to be exporters, rather than imcountry, and probably, we shall be among the most promising, and inditermine all the facts, but they are not yet been carried far enough to deand California yield greater, but are be richer in alkaloid. Those in Texas in the upland districts of Vermont, Texas and California. So far, the ture in the East. meak up the poppy growth and cul growers out of business, and this wil porters in the future. The cutting off cate that opium will be grown in this leys of the green mountains, seem to poppies grown on the hillside and valfrom them. These experiments have less valuable in the salts extracted Experiments are now being made

> stage of muscular action, but this dimcreased muscular power, but rather mishes rapidly, and finally disap-pears. It forces the blood faster motor nerves, may increase the first cohol increasing the excitability of the hol in all doses is depressing, and pois-onous to the body. The effect of almany, in a recent paper on the muscuthrough the arteries, but gives no in ar power of alcohol, asserts that alco-Dr. Dressler, Kraschnitz, Ger-

so many errors have gathered. are all lowered, and the power of en-durance is diminished. The person is energy and the acuteness of the senses ments of The fictitious strength which it ous, and misleading and about which is no drug in common use so danger feceived and does not know it. irmed by measurments with instrucreates is false, and cannot be conprecision. The muscular

ed to properly perform his duties as a Health, have revoked the license of a physician. number of physicians, for this and delicense any physician who has fail has sustained them in their power to other reasons, and the circuit court In Nebraska, the State Board of

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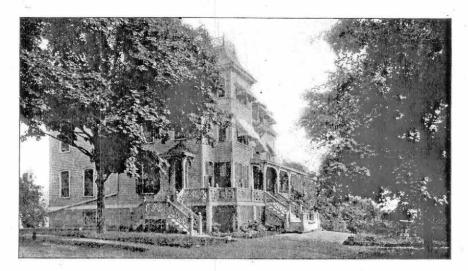
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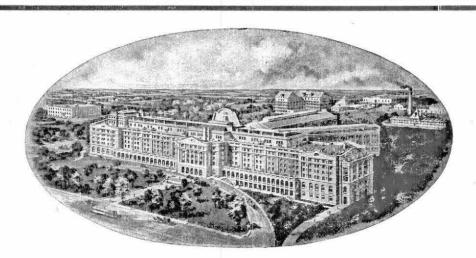
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A SELECT private home for nervous invalids, mild mental disorders, alcoholics and drug habitués, amid quiet, restful surroundings. A detached cottage for suitable cases. The drives are particularly attractive and varied, and facilities afforded for croquet, tennis and other diversions. Thoroughly equipped with all modern conveniences and easy of access via N.Y. Central and Hudson River R.R. Large verandas, cheerful, sunny rooms, including a sun-parlor, are features of the place. Beautifully located, overlooking the Hudson River and Fishkill Mountains. All approved methods of treatment used, including diet, baths, massage and electricity. Address physician in charge,

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HE Battle Creek Sanitarium System of dealing with patients who have become addicted to drug habits differs essentially from the methods in common use, and especially in the following particulars:

1. No drugs are used. They are not found necessary, and delay the delivery of the patient from his bonders.

1, No drugs are used. They are not found necessary, and delay the delivery of the patient from his bondage.

2. A patient is not considered cured until his nervous system has been built up and his constitution fortified by the removal of the conditions which have been the occasion of his resorting to drugs for relief.

3. No reliance is placed upon hypnotism, suggestion, deception, or any allied methods in treating these cases. The patient is treated as one having a deteriorated organism which requires to be restored to a healthy and normal state. This is accomplished by a combination of physiologic measures in which hydrotherapy, phototherapy and electrotherapy play a very important part in combination with a proper regulation of the diet, and such mental and moral discipline as may be needed.

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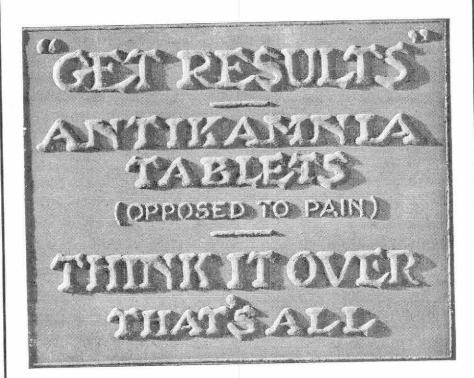
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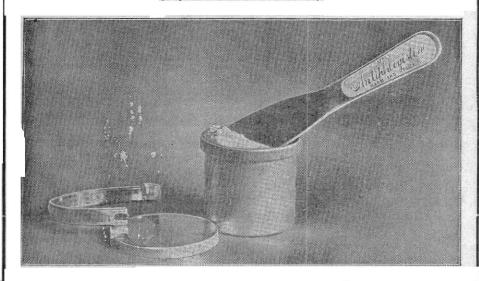
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THE QUARTERLY JOURNAL OF INEBRIETY

ESTABLISHED 1876

OFFICIAL ORGAN OF THE AMERICAN SOCIETY FOR THE STUDY OF ALCOHOL AND OTHER NARCOTICS

T. D. CROTHERS, M. D., EDITOR

Thirty years ago THE JOURNAL OF INEBRIETY was established for the distinct purpose of teaching the medical public that Inebriety was a disease, both curable and preventable.

As result of its work, the disease of Inebriety is today recognized as one of the most serious of all the evils which threaten civilization, and the longevity of the race.

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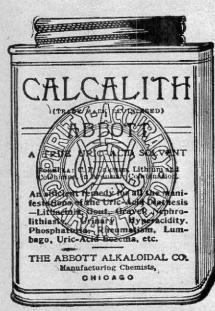
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November 1, 1906.



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Pleurisy

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