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#### THE JOURNAL OF NEBRIETY

OFFICIAL ORGAN OF THE AMERICAN MEDICAL ASSOCIATION FOR THE STUDY OF INEBRIETY AND NARCOTICS

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

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#### WINTER, 1908-09

The Influence of Narcotics upon Metabolism	197
By W. S. HALL, M.D., Chicago	ę.
General Principles of the Treatment of Habitual Drunkards	207
By T. Clays Shaw, M.D., London	
The Influence of Alcohol and Autotoxicosis on Nervous and Mental	
Diseases	214
By G. H. Benton, M.D., Chester, West Va.	
The Physician and Alcohol	224
By Prof. Dr. Max Kassowitz	
Alcohol an Important Factor in the Etiology of Mental and Nervous	
Diseases	230
By D. R. Brower, M.D., LL.D., Chicago	
Alcoholic Insanities	235
By Alfred Gordon, M.D., Philadelphia	
The Pauper Inebriate from a Medical and Legal Standpoint	245
By L. D. Mason, M.D., Brooklyn	
Editorial	251

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difficulty of getting accurate statistics from persons who leave the then recarment and are raitely heard of again, while those who relapse ustitute its was mentioned, and the tematk is made which is so com-Virumber of patients were discharged on parel, and did well. il constitution and are often the most bitter demacters and entities. comevery prominent and adverses their condition as the fault of n in American Institutions, that the patients who do well conceal

The dector reports that eight percent of the patients are physicians

This is one third less than that world in this country

tal, a large number of persons theing discharged with every prosthat tone were physicians. The results of treatment were very hopetakers, four were instance and transferred to other instantions and and harv-iour patients, admitted. Of these form-four were drug and the hospital is characted by the state with the similar powers of m 18-8 is the oldest private institution in America that has been under electrical, and radient light measures. This institution organized of the report concerns the methods of treatment by hydropathic, peet of permanent restoration. All were improved. A large part one continuous management. Walnut Lodge Hospital, at Harrford, reports for 1007 one hundred Dr. Crothers is the superintendent

from that time up to the present has cared for and treated over sevenis of unusual interest. This hospital was incorporated in 1850 and A third report is of the Washingtonian Home, Boston, Wass., and

tendent, Dr. V. A. Ellsworthane exceedingly granifying and hopeful. Others remain longer, and the results as reported by the Superinteen thousand patients. the patients are in acute stages and are admitted for temporary relief. one of the largest ineburate hospitals in the world. A great many of hast year the number admitted was over nine hundred, making it This particu-

continue to recognize only the moral side of medinery. As a result sad tailure of medical colleges and physicians generally, who still La fact is mentioned for the purpose of giving emphasis to the very they are too often the victime The number of physicians are about eight pet cent.



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### THE JOURNAL NEBRIETY

WINTER, 1908

THE INFLUENCE OF NARCOTICS UPON METABOLISM.\*

BY WINFIELD S. HALL, PROFESSOR OF PHYCIOLOGY, NORTH-WESTERN UNIVERSITY MEDICAL SCHOOL, CHICAGO

N order that the field of our discussion may be clearly includes all of the chemical processes of the living outlined before us, it should be stated that metabolism

immediately following in the intestinal epithelium and the the chemical changes incident to absorption and those changes incident to the digestion of food. It includes also Among animals metabolism begins with the chemical organism.

energy required by the former. in the nervous system, and in the glandular system. The lymph, the latter serving to furnish through its oxidation the either to build up the active cell-plasm or the passive cellassimilate the absorbed food, making it a part of their anabolic changes predominate at first as the several tissues changes in the active tissues of the body, viz. in the muscles, protoplasm. Once the food is assimilated it may serve Then follow a series of complex anabolic and katabolic

ally becomes oxidized and broken down into simple chemical whether the food becomes cell-plasm or cell-lymph, it eventuceous foods are held in solution in the cell-lymph. But materials are built up into cell-plasm, while the carbona-It is believed by physiologists that nitrogenous food

and Alcoholism at the Chicago Meeting, June, 1908 \*Annual address of the president of the Society for the Study of Inebriety

case that threeshes all life activity, motion, and heat merce and hears our dwellings. It is the energy in the other is this energy in the one case that drives the wheels of comenergy is liberated incident to the oxidation processes. In turnace, so in the katabolic processes of the human body As in combustion processes which take place in the

called excretion. otherwise it will interfere with the oxidation processes. This clearing out of the waste matter in hving bodies is material is useless waste and must be kept cleared away, As in the furnice, so in the animal body, the oxidized

panied by a series of chemical changes that we call metaingestion of food to the exerction of waste matter is accomthus we see that the whole process of nutrition from the

action of certain narcotics and have thus led to misunderdirection. There are certain factors that complicate the degree commensurate with the dose, but always in the same standing. via affect a small part of the organism, or affect it to a an animal organism is to cause it to lapse into a more or less activity. The extreme physiologic effect of a narcotic upon narcone is a substance that slows or deadens protoplasmic protound and prolonged sleep - hence, the term narcotic Small doses of narcotics will naturally have a small effect, To interfere with metabolism is to interfere with life. A

liberated in the oxidation may be ignored as a negligible morphine, are potent in such minute doses that the energy exidized in the animal body, some of the navcotics, viz. While all of the narcotics are more or less complerely

zation in the hody has even led some to affirm that it is a This liberation of energy from alcohol incident to its oxidiounce of alcohol is so great that it must be reckoned with. On the other hand, the amount of energy liberated by an

ressue at the moment when they hist come into contact with it the narcotics produce a marked irritating effect upon living normal katabolism of food will be discussed later. Some of The fallacy of confusing the oxidization of narcotics with the

> exercise its inherent influence, namely to deaden and slow taken into the protoplasm the narcotic begins quickly to lation. But once actually absorbed by the living cells and the activity of the protoplasm. that it is accepted and possibly not without reason as stimu-This irritating effect simulates real stimulation so closely

that it is now recognized, that all the narcotics are prototo nutrition should have been so long misunderstood. it is oxidized in the body, it is easy to see why its real relation if not in very weak solution acts first as an irritant and that plasmic poisons. When we consider, however, that alcohol This laming action of narcotics is so marked and profound

permissible. recognized by all authorities as the limit that is physiologically the user has in nearly every case consumed more than is mentally wrong. Long before the intoxication is apparent of the moderate or immoderate use of alcohol is fundathat the use of the visible signs of intoxication as an index versity, recently published a valuable paper on the Scientific Aspects of Moderate Drinking, appearing in the Boston Atwarer, in the department of chemistry at Wesleyan Uni-Medical and Surgical Journal of 1904, in which he urges Dr. F. G. Benedict, an associate with the late Professor

ounces of absolute alcohol daily. This amount was claimed to be without any ill effects. Many insurance companies paign, one pint bottle. Of ale or porter, three or four tumof sherry and claret and other strong wines. Of chamthree ounces of ardent spirits, equal to two or more glasses have accepted this as correct. This can be represented by to be without any ill effects. blers tull. Anstie, in 1864, declared this limit to be one and one half

and says: "To the trained observer in the physiological standard which is about one half that of Dr. Anstie's, struggle for existence." very important role in determining a man's efficiency in the that should be carefully and clearly stated, for they play a marked and characteristic phenomena in the brain action laboratory small quantities of alcohol produce certain Professor Abel, of Johns Hopkins, has established another

Kraepelin and his pupils have collected much data and

their results are uniformly in harmony with those of Abel. "In general," Benedict says, " it is correct to say that alcohol in small quantities for a considerable length of time diminishes all forms of mental activity.

"The different phases of this process are very complex, but the accepted explanation of to-day is that alcohol paralyzes the inhibitory functions, and the reserve naturally acquired

with age is cast off....

"The last acquisition of the mature man is the first to be affected, the first movements of the child are the last to give way to the action of alcohol. All rhese effects from the retardation of mental processes by small quantities to complete intoxication by larger amounts form a perfectly connected series of phenomena of alcoholic narcotism."

In as much as this subject is to be discussed in another paper I will only mention the recent work of Gizelt,\* who found as a result of an extended series of experiments upon dogs that when the subject was given an enema of fifty cubic centimeters of a twenty per cent solution, the volume of pancreatic secretions was greatly increased, the increase beginning within thirty minutes, being greater during the first hour and lasting for three to five hours. The author obtaining similar results when the alcohol was injected into the stomach or subcutaneously.

Eurther experiments led to him conclude that the alcohol exerted its influence through its action upon the pancreatic secretory centers. Another set of experiments by the same author proved that the presence of dilute alcohol in the alimentary tract decreased very much the digestive activity of the amylopsin and trypsin, while it increased the action of the lipase. It may be inferred from these experiments that while the volume of pancreatic juice is increased under alcohol its digestive activity for albumens and starches is proportionally diminished.†

Starke, in his "Justification of the Use of Alcohol";

recommends "the propriety of moderate drinking, an important hygienic question for many modern men." He maintains that, "in a day's ration which a man sets for himself it should always contain more alcohol than coffee, in order

to overcome the action of the latter."

He disputes any detrimental influence from moderate alcohol dosage and ascribes to alcohol the quality of a valuable nutrient, the specific action of which upon the central nervous system he represents as unusually favorable when taken in moderate quantities. The procreative ability is also increased. The author's conclusions are based upon observations upon himself.

Goddard, in an article in the London Lancet,\* gives the detail of a research on the food value of alcohol. He used

dogs as subjects.

They were purged and kept without food for twenty-four hours, then given alcohol amounting to one seven-hundred-and-fiftieth of the body weight. The excreta of the tissues were examined. Five per cent were found in the excreta. The remainder was oxidized. If twice as much is exhibited the excretion amounts to six per cent and acetic aldehyde appears in the expired air.

With four times the first dose forty-nine per cent of the ingested alcohol is excreted partly as alcohol in breath and

urine, and partly as aldehyde.
Goddard concludes that bec

Goddard concludes that because of its oxidation in the body, alcohol may be a food in small doses, but in large doses when half of it is excreted it cannot be considered a food.

Kassowitz reviews the work of Minra, Schmidt, and Schoeneseiffen, who found in alcohol no tendency to spare protein, and of Clopatt, Neuman, and Rosemann, who found that alcohol exerts a sparing action on proteins. Kassowitz accepts the results of the more recent experiments of the last group named, but calls attention to the fact that through its narcotic and poisonous effect upon living protoplasm alcohol stops and decreases oxidation of the protoplasm.

The writer feels impelled to call attention in passing to the fact that all life activity is accompanied by oxidation

<sup>\*</sup>Gizelt: "Ueber den Einfluss des Alkohols auf die sekreronische Tärigkeit der Pankreasdrüse." Centralblatt für Physiology. Bd.XIX, No. 23, 8, 857.

<sup>\*</sup>Gizelt: "Ueber den Einfluss des Alkohols auf die Verdanungs fermente des l'ancreassafte." Centralblatt f. Physiol, Bd. XIX, No. 21, 8, 771.

<sup>+&</sup>quot; Die Berechtung des Akoholyenusses," Stuttgatt, 1905, 256 s.

<sup>\*</sup>London Lancet, 1904, p. 1132. "The Physiological Action of Alcohol Considered as a Food."

alcohol so fully demonstrated and generally accepted is in and all oxidation by waste. The "sparing action" of perfect harmony with its generally accepted narcotic action

of life activity is accompanied with a given consumption of is an economy of food material, in connection with activity. contended, much less proven, that this so-called "sparing" body substance. decreased oxidation; therefore, "sparing." Nobody has With the influence of alcohol, as without it, a given amount Narcotic action is followed by decreased activity, therefore

harmless. dized, as any toxine would be, for the purpose of making it the blood to the tissues, mostly to the liver, where it is oxithe life energy. When one ingests alcohol, it is carried by muscle tissue and is oxidized for the purpose of liberating When one eats a real food, it is assimilated largely by

body temperature. If a food is defined as a substance which then alcohol is not a real food. liberate the energy used by the tissue in its normal activity, or repair body structure, or to be oxidized in the tissues to taken into the body is assimilated and used either to build not be utilized by the body even for the maintenance of Its oxidation liberated heat energy, but this energy can-

is a food." But many difficulties appeared. erally misunderstood. The first impression naturally was: 'Foods are Oxidized; Alcohol is Oxidized; therefore alcohol The fact that alcohol is oxidized in the body has been gen-

alcohol disturbs muscular glandular and nervous activity, activity and its oxidation maintains body temperature. and its oxidation does not maintain body temperature. A real food promotes muscular, glandular, and nerve

other toxic substances. oxidation of mid-products of katabolism of toxins and of the significance of its oxidation? It has been long known that the liver produces oxidases and that it is the site of active be a pseudo food. But if alcohol is not a real food, what is We found alcohol to be pseudo stimulant, and we find it to

belongs clearly then to the toxic substances mentioned above is also found as a mid-product of tissue katabolism. It Alcohol usually formed as an excretion of the yeast plant

> appeared two most important papers based upon extended bodies, and various amido bodies. There have recently in the liver along with leucin, tyrosin, uric acid, xanthin researches, upon man and lower animals. These researches On a priori grounds we should expect alcohol to be oxidized

practically clear up this knotty question. Dr. Reid Hunt,\* in one of the Government Laboratory system against bacterial and other toxins. Throughout his marked decrease of the defense of the system against toxins ingestion of even small doses of alcohol was followed by a exhaustive research, Dr. Hunt found uniformly that the determine the influence of alcohol upon the defense of the stations, undertook an extensive series of experiments to

subject of the experiments was a young man in good health, and published in the American Journal of Physiology.† The of regular habits, unaccustomed to the use of alcoholen any The other research referred to was conducted by Dr. Beebe This effect was due to the disturbance of the liver function.

trol, with all conditions normal. A six-day period during observations were continued without alcohol. which alcohol was given and a four-day period during which covered a sixteen-day period divided into a seven-day con-The diet was uniform throughout. Experiment I

period was 0.635 gms., for the alcoholic period, 0.755 gms.; and for the post period, 0.615 gms. Note that during the alcoholic period the increase of uric acid was approximately ments yielded similar results. nineteen per cent - a notable increase; subsequent experi-The amount of uric acid excreted was accurately deter-The daily average of uric acid for the control

The author's conclusions are so important that I will give

them in full:

in the excretion of uric acid. alcohol, even in very moderate amounts, causes an increase After these experiments there is no doubt that

to a toxic effect on the liver, thereby interfering with the \*Reid Hunt. Studies in Experimental Alecholism, 1907. Hygienic "2. The following points indicate that the effect is due

Laboratory. -- Bulletin 33. +Beebe. The Effect of Alcohol upon the Execution of Uric Acid i

Man. Am. Jour. of Physiology. 1904-5, NII, p. 13.

organ which has most to do with the metabolism of proteid affected to the same degree as the uric acid. (e) Alcohol occurs at the same time after a meal as it does when purin cleavage products. is rapidly absorbed and passes at once to the liver, the food but no alcohol is taken. (d) The purin bases are in the une acid exerctions. (c) The maximum increase oxidation of the uric acid derived from its precursors in the tood than in experiment 1, and there was a similar increase (b) In experiment 2 the diet contained much less purin (a) Alcohol taken without food causes no increase.

of urates has been produced and not that more of that which "The increased excretion means that a large quentity

is already present has been excited.

can be attributed to the uric acid alone. results of these experiments will have greater significance than acid to be the impaired oxidative powers of the liver, the "If we accept the origin of the increased quantity of unit

substances of intestinal putrefaction, for instance, would be sibilities for entrance into the general circulation of toxic which are normally accomplished by that organ, and the pos-"For the impaired function would affect the processes

in this respect, the prevalent ideas regarding harmlessness caused the increase in une acid excretion impairs its power body tissnes; and if alcohol in the moderate quantity which syntheses designed to keep toxic substances from reaching the "The liver performs a large number of exidations and

of moderate drinking need revision."

oncoming tide of alcohol is not too great it will practically mentary canal is at once attacked by the liver, and if the of the toxic substances which reaches the liver from the alithe alcohol in the liver is explained. Alcohol itself being one all be oxidized. be everestimated. In the first place the rapid oxidation of The value of this wo'k and that of Reid Hunt can hardly

are excreted unoxidized by the kidneys. There are three the tiss ies, where they may do injury. Some of these toxins impaired in the mean time so that they get past the liver to But the hepatic oxidation of other toxic substances is

> toxic substances including uric acid and the xanthin bodies capacity of the liver to its limit. When thus taxed all other alcohol ingestion is that amount which taxes the oxidation capacity of the liver is limited. The physiological limit of ways of accounting for this condition: (1.) The oxidation situation. It is hardly conceivable that the relation of combination of these conditions may represent the real and thus permits toxic substances to pass unoxidized. (3.) A upon the liver cells, impairs the hepatic oxidation capacity alcohol to the liver activity is not covered in the hypotheses The presence of alcohol in the blood, through its toxic action pass through the liver unoxidized to appear in the urine. (2.)

above formulated. uric acid, xanthin bodies, leucin, tyrosins, and the amido belongs strictly in the same category with the oxidation of activities of that organ, i.e., it is a protective oxidation and tion of alcohol in the liver is simply one of the defensive by the researches of Beebe, Hunt, and others that the oxida-We may therefore accept it as practically demonstrated

ity? The answer is probably to be found in the chemical clusion of other toxic substances up to the oxidation capac-The next question which arises is, why does the liver select alcohol first and oxidize that substance to the ex-

composition of alcohol oxidation may be due to this fact alone, or in part to an of importance: Is the energy liberated in the oxidation of actual selection on the part of the liver. Another question toxic substances which gain access to the liver. Its early alcohol in the liver available for the use of the muscles, It oxidizes very easily, much more so than any of the other

nervous system, or glands?

groups: (1.) Active oxidations which take place in the reason together. All body oxidations may be classified in two of the nervous system and is proportional to normal activity. take place incident to action. It is under the perfect control active tissues,- muscles, nervous system, or glands,- and food. If negatively then alcohol is not a food. Let us (2.) Protective oxidations which take place in the liver If this question is answered affirmatively, then alcohol is a

This class of oxidation processes is wholly independent of the usual tissue activity and is proportional to the ingestion of toxic substances and quite independent of muscle action, brain action, or gland action, other than liver action.

If the exidation of alcohol in the liver belongs to class 1, the following consequences should be found: (1.) The ingestion of alcohol would lead to an increase in muscular power and in the working capacity of the brain or glands. (2.) The ingestion of alcohol would serve to maintain body temperature in the healthy individual subjected to low external temperature. (3.) The accession of muscle, brain, or gland activity would be proportional to the amount of alcohol ingested, but laboratory observations and general experience show that none of these things are true; i.e., the ingestion of alcohol decreases muscle, brain, and gland work, and depresses body temperature when external temperature is low.

other taxic substances limit and left the organism defenseless against bacterial or the animals taxed the oxidation capacity of the liverero the dation. In the light of this presentation the significance of conclusion that the oxidation of alcohol is a protective oxi-(4.) It the oxidation capacity is overtaxed, an excess of with this protective oxidation by overtaxing the capacity. stances, the introduction of alcohol may seriously interfere the oxidation of uric acid, xanthins, and other toxic suboxidation in the organs in question. (2.) If the oxidation Dr. Hunt's work becomes very clear. The alcohol given to by this portal and reach the active tissues or the kidneys. uric acid, xanthin bodies, and other toxic substances will get oxidation capacity of the liver is taxed nearly to its limit in capacity of the liver is limited this capacity may be overloaded Now all of these things take place, so We are forced to the by exceeding the physiological limit of alcohol. The ingestion of alcohol would be followed by its early class 2 the following consequences would be found: (1.) relation. The oxidation of alcohol does not therefore belong In the nature of the case there can be no proportional If the oxidation of alcohol in the liver belongs to

# GENERAL PRINCIPLES OF THE TREATMENT OF HABITUAL DRUNKARDS.\*

BY T. CLAYS SHAW, M.D., LECTURER ON PSYCHOLOGICAL MEDICINE AT ST. BARTHOLOMEM'S HOSPITAL.

HE word "drunkard," as far as our immediate purpose goes, implies the drinking of alcohol in some form to excess, and does not include drugging by hypodermic medication, inhalation, etc.

Some people prefer the term "inebriate," because it is less opprobrious and more comprehensive, and applies to both opprobrious and more comprehensive, and applies to both alcoholic inebriates and drug habiture; but it does not appear that there is any particular reason for sparing the feelings of those who indulge to excess. We call a pe son who deliberately kills another, a murderer, and we do not cloak our appellation under the euphemism "culpable homicide," appellation under the feelings "grant because there so we will retain the term "drunkard" partly because there is a kind of ough brutality about it which concisely expresses the general feelings about this class of cases, and partly because the word is well understood and recognized as comprehending the whole territory of excessive alcoholic in-

It so happens that a royal commission is now siting on this particular question, the date of this commission having been fixed subsequent to the enunciation by this section of our intention to discuss it at this meeting. The scope of this commission is very large, and will, I understand, be extended to take evidence from many societies and individuals, including even some who are not recognized in medical circles as professional exponents of the subject. Not only is the British Medical Association itself, which has been for some time actively concerned with the question now under consideration, but the Society for the Study of Inebricty, the Medico-Psychological Association, and even the Turveyites, together with other bodies, are to lay their views before the commission. Let us hope that some practical results will be arrived at by this section in the direction

Pical Testings with the arrays and responsible Northead Assertation Meeting.

Violent Assertation Meeting.

tacts seems to point—the necessity for the authority to use restraint when it is required—and that our expressions of opinions may be brought before the commission as the deliberate convertion of a body of men who are intimately acquainted with the circumstances about which we are deliberating.

This is the state of the state forced absoluble from simulants has bare a reasonate she may be successed and the committee of the and the person upon whom, while drugs have been my and conments at third for the bareally control and deciment of a pathon 100 the social surroundings in is necessari to have theoners, the unpulies arrived when, by the sake feels of the and produced bear of people of property and indicated by the agreed that while the less legislative control the better of worth the attention of any section, but we are all probably the trust efficiencies greatment of metracts by drugs is well remedies it necessary may be applied. A discussion on the possibility of about the Langthein dame, during which to the application of medical agencies may be quoted to prove the great value of remedies in some the mebriate homes where medical reasoned is carried our habitual drunkard, not because I believe medical treatment cases, but because we have already as much power as we want to be attagether a talking, on the countary, the records of I do not propose to discuss the medical treatment of the What we require 18

According to Section 7. Clause J. St., of the Value

know that mental troubles caused by alcohol have a way of recovering in a most surplesing manner when all alcohol is withdrawn, and that under the present state of the law it not possible to decam these people, though we know that widecharge them is to arvive a speedy return to the deploration conductors which before existed, so that it legislation is in he of real value, it must be both corrective and preventive.

High rate of the consideration of the separate state of the separa

 acquainted with the the authority to use it our expressions of commission as the who are intimately bout which we are

cal treatment of the conclusion traction traction of the tenedies in some chower as we want. What we require is time, during which

A discussion on eta by drugs is well we are all probable antiof the better of and registered practhe sake both of the a necessity to have and detention of a been tried and conbave a reasonable

of the Act he, not being amenness instanding, by og liquors, at comes of memoring fund-

the various aftered one melaries about are actual insumined for easily placed there are yet others to quite compulsary about Weightin.

know that mental troubles caused by alcohol have a was of tecovering as a most sure using manner when all alcohol is withdrawn, and that under the present state of the law it is not possible to detain these people, though we know that is discharge them is to myne a speedy terum to the deplorable conditions which before existed, so that if legislation is to be at real value, it must be both corrective and presentive

Our interference is respured, for persons who drink to excess — perhaps constantly, perhaps internutiontly — who, though carely drunk in the sense that they are absolutely incapacitated are yet unable adequately to discharge their obligations, who squander the money which should a for the tamily in excing, betting, and gambling, who pass much of their time in bed, when they should be following their business, who through absonce of definite deluxious or ballications cannot be certified as insure, who are ready to give promises of reformation which they do not keep, but who are dways on dangerous ground, on a certification, though quite able to give plan ble accounts of their conduct, and to sustain a certain absolute of conversition, an other

This is the condition in which we want the law to help us, not easy for the sake of the agent, but for those who are being short; submitted and threatened with total extinction in a continuous current of trail excess such a decald be damined to ar diverted. Why should this destructive, grinding, and minister creature be allowed to desolate his home, to intrope the possel name of his wife and coldren, and to purpose the destruction which that can see a gradient consecutiving the destruction which that can see a gradient consecutiving them. At present the law takes to notice of acts unless the same barm to self or others, not of continuing and practices which uses dischara.

There is apparently to cloud to prevent about bring a decease to early breatmy and buying a tevelvet assume the neither threatens to not actually does use it. Only when he has used at does he come within the clutch of the law, though all the time he is its such a condition than the imports to use it may true at any majority and the misched

in which the concensus of those best acquainted with the facts seems to point;—the necessity for the authority to use restraint when it is required—and that our expressions of opinions may be brought before the commission as the deliberate conviction of a body of men who are intimately acquainted with the circumstances about which we are deliberating.

I do not propose to discuss the medical treatment of the habitual drunkard, not because I believe medical treatment to be altogether a failure, on the contrary, the records of the inebriate homes where medical treatment is carried out may be quoted to prove the great value of remedies in some cases, but because we have already as much power as we want for the application of medical agencies. What we require is the possibility of obtaining a lengthened time, during which temedies if necessary may be applied. A discussion on the most efficacious treatment of inchriety by drugs is well worth the attention of any society: but we are all probably agreed that while the less legislative control the better il am speaking pow of properly qualified and registered practwoners), the time has arrived when, tor the sake both of the patient and his social surroundings, it is necessary to have means at hand for the foreible control and detention of a person upon whom, whilst drugs have been tried and conspicuously failed, the curative elements of time and enforced abstinence from stimulants may have a reasonable chance of operating,

According to Section 3, Clause 3, has of the Act.

Habitual drunkard means a person who, nor being amenable to any jurisdiction in lunacy, is, notwithstanding, by reason of habitual drinking of intoxicating liquors, at times dangerous to self-or others, or incapable of monaging himself or his affairs.

As practical men, conversant with the various Atered mental conditions in which acute or chronic inchricts shows itself, we all recognize that, while there are actual insanties produced by alcohol which require and are easily placed under certificates for asylum treatment, there are yet others which, though not certifiably insane, do require compulsory sequestration, for their own and others' safety. We also

know that mental recovering is: a to withdrawn, and to not possible to do discharge them to conditions which of real value, it in

Our interferent excess perhaps though rarely do incapacitated are obligations, who the family is rest of their time in business, who the cutations cannot be promises of reformalways on stanger thing which remiquite able to sustain a reactions.

This is the common and oracle submerges continuous curre, up or diserted, uppre case create endanger the ges panjacroschis de staving the destre taking them a unless they cause exil practices who

There is appliancement of the second as he re Only when he had the law, though a impulse to use it

be done before it can be prevented. Is such a possibility right either for the man himself or for society in general?

I come now to the legal processes which should be invoked, remarking in the first place that there is a dual control—namely, that of the Secretary of State, who regulates the management of the retreat and the duties of inspection, and the county and borough councils, which are the authorities for the granting of licences. I am able to state that the experience of those versed in the working of these retreats is that this dual control is for many practical reasons unsatisfactory, and that to the Secretary of State alone should be committed the power to grant, transfer, or withhold licenses, and, moreover, that compulsory licensing of all retreats should be made absolute.

certificates should be available for at least six months, and tain objectionable phrases which exist in the latter. These what similar in form to lunacy certificates, but free from cerhome upon the authority of two medical certificates, someasylum. I would have the power granted to place them in a it is not expedient or even possible to confine in an and would lessen the expense. For private patients whom put upon the accommodation at existing mebriate homes, company of actually insane persons, would prevent the stress him under supervision whilst it would free him from the inebriates would be a cheap and expeditious way of keeping him to the part of the asylum license for the reception of in a case of the pauper patient the advantage of removing a good thing for the well-to-do person who may have been necessary. I still think that removal to the home would be term to be capable of extension for as long as was considered the patient for a term of probation to an inebriate home, the should be possible for the governing authorities to discharge so rapidly recovered that he can no longer be detained, it Society on Dec. 17, 1907, I remarked that when a person insane from alcohol had been placed in an asylum and has following reasons: In a paper read before the Medico-Legal habitual drunkards. I beg to suggest that it would, for the vantage to grant licenses to lunatic asylums for the reception of placed during his attack of insanity in a private asylum, but The question has been raised whether it would be of ad-

> of responsibility, and during the time of his detention, all months, if considered necessary by the authorities of the sion by the superintendent. A question arises as to the capable of by the home authorities and their superintendent. he allowed to transact such business as he was deemed home. Whilst under these certificates the patient would should be capable of renewal for additional terms of six of the house, but on the whole it is only right that the friends be kept clear from participation in the detention of the head the future family harmony if the immediate members could signed by the next of kins. It would probably be better for propriety of having the order of commitment to the home personal liberty would be denied, except by special permisbut special permission would have to be given for these acts ment or conjointly with those of the certifying doctors. must accompany the certificate, either as a separate docushould undertake some responsibility, and therefore it may be concluded that some authorization from a near relative

The advisability of having the order of a magistrate is also a debatable point. Experience of certification in lunacy cases is not entirely in favor of having a magistrate's order, for in urgency cases it is not in the first instance required. If the order of the magistrate is understood to be nothing more than a formal official recognition that a certain process has been complied with, there would appear to be no reason, beyond the question of delay, why it should not be made compulsory; but if it is to involve discretionary power, then its possible harm is apparent, because the arbiter is not always in a position to judge the validity of the premises. The form of certificate would be on the following lines:

period of .... months, or for such time as is considered by the authorities and the friends of the patients to be advisable.

Signed.

I agree to the above certificate being issued.

Signed . . . . . nearest of kin

The patient thus compulsorily secluded ought to have safeguards. Whilst under detention he would be visited by the government inspectors, and he would have his legal remedies for improper certification just as the lunatic now has.

mental committee, with the object of re-enforcing such tes-Section D of the question says: timony as is brought before it in favor of this proceeding view to its being brought before the notice of the departunder consideration might be presented to the Council witha tion of the urgency of compulsory legislation in the cases this section of the British Medical Association on the quesventure to suggest that a resolution embodying the views of retreats, etc., is receiving the fullest consideration; but I ards or inebriates, their employment and treatment when in the compulsory certification and seclusion of habitual drunkof these questions it is evident that the whole subject of new witnesses, submitting evidence before it, and from the scope Act has issued a series of questions for the guidance of legislation in regard to the taxation and licensing of retreats, I note that the departmental committee on the Inebriates

In view of the fact that the 1879 Act only empowers the detention of inebriates when they themselves desire treatment, and the 1898 Act only when the inebriate becomes a criminal or degraded, are you of opinion that further powers are necessary to authorize the treatment, guardianship, or detention of inebriates who cannot be controlled or treated under any existing power?

Surely our answer can only be that we do think so, and that whether the means employed be by certification or by inquiry on commission (as has been urged by one very experienced prison physician), we must do all in our power to back up such efforts as are being made to attain this end.

I conclude by saying that we can teach people the necessity for moderation, but alcohol is always a dangerous instrument, and we cannot be surprised if some who do not know how to use it as a servant find that it becomes a tyrannous master. Drunkenness may not be the end for which alcohol is taken, but the social system which permits the insidious ensnarement, swelling up finally in a paralyzing incompetence for economic duties, should also provide the means of escape from the net, if even by temporary restraint of another kind, and it should resolve that the possession of such a power is not a futile asset.

There is really nothing novel in legislating to effect the compulsory detention and control of these persons, except that this country lags behind numbers of others, whilst in some places (I am now quoting from particulars from Dr. Hogg, of the Cedars, Rickmansworth) still more stringent laws are in action, for an habitual drunkard who is believed to seek help from the authorities to support himself or his family is liable to arrest, and may be placed in a workhouse for a term not exceeding two years.

To carry out with all due safeguards the measures above proposed is not asking too much in the way of public expenditures, because the private patient will be able to pay, and if the present homes for pauper inebriates are not sufficient, it will be possible to make use of the machinery of the existing country asylums by adding a little to their accommodations.

Two very significant gatherings during the past few months have been held in England. One was the International Moral Education Congress. Delegates from many countries were present and one of the great topics was the alcoholic problem and means for its prevention; and cure.

The late Mrs. Hunt practically pointed out the methods of prevention in the compulsory laws for the teaching of alcohol in common schools. She actually carried the subject a century in advance of this generation, and this fact was recognized by many of the speakers.

The second movement was a summer school of the Temperature.

The second movement was a summer school of the Temperance Collegiate Association of Cambridge, England. Prof. Sims Woodhead presided and delivered one of the lectures. This was the first effort among collegiates to take up alcohol as a special topic.

A similar school has been projected in this country, but has not materialized yet.

BY G. H. BENTON, M.D., SUPERINTENDENT CHESTERCREST SANITARIUM, CHESTER, W. VA.

be confined within more rational limits. teaching the present roll of permicious narcotic drug use may are giving special study to the subject, or those who are luture may be taught in its scientific entirety, through which thoroughly implanted in our medical knowledge and in the impression, leads me to feel that this truth is becoming so accepting the affirmation of others, either through proof or both among the leaders as well as the followers, who HAT the statement which affirms alcohol to be a protoplasmic poison excites less rational opposition and time in the history of the study of narcotic drugs, less unfavorable comment now than at any other

continued use which otherwise would result fatally if given individual who has accustomed himself to a poison by gradual drugs which have some narcotic effects in a matter of tolernarcotic, and there exist other differences even between in the same doses. Narcotics are all toxic, but poisonous drugs are not all Apparent harmless tolerance may be established in an

extensive destruction of the cellular tissue of the protoplasm hope to indulge and escape the penalty. The degrees of pencareful limited use. To be sure nature abhors a poison and munity or harmless tolerance through its even apparent and through which fact one toust forego the idea of imthrough its extraordinary sensitiveness to chemical action paper is alcohol, whose baneful action is enumerated in its susceptibility to the poisonous chemical action of the alcohol alty, however, vary with the individual and his personal seeks to live in spite of it, yet no one knowing the truth can The special narcotic with which we are dealing in this

Study of Inebriety. \* Read at the annual meeting at Chicago, III., of the Association for the

> and also to the hereditary factor of inherent lowered vitality representing both physiological and pathological conditions.

ters which circulate in the system and which materially on an ordinary normal individual there are other toxic matinfluence, aid, and abet the destruction of normal protoassimilation, as well as trophic and toxic degenerations, in turn give occasion to all degrees of malnutrition, maldegenerating the circulatory and nervous systems, which plasm resulting in the weakening of the physical forces, tion of one or more of the somatic constituents resulting in from the slightest deviations from the normal to total destrucgiving the varied degrees of expression of conditions ranging In addition to the pernicious chemical effect of alcohol

of alcohol are well understood by this body and need no difference of opinion among us in reference to the extent of reviewing, and I am impressed that there might be little or no death. extent and range has not been so definitely determined either firmed by autopsies, yet there is another element whose lished these facts beyond dispute and been further conravages produced by alcohol. Clinical observation has estabinfluence in connection with alcohol. as to the extent of its action alone or its combined action and The pathological lesions attributable to the inimical action

in which field there lies vet hidden a vast amount of valuable less extensively by the larget per cent of the profession and worth both individually and collectively. would accrue to humanity as an asset of almost incalculable knowledge, in the gaining and teaching of which, I believe, lent in our daily experience, and whose action has been studied I am referring to the auto-intoxications which are so preva-

case, both with and without the additional influence of alcoto the influence of autotoxicosis on nervous and mental disthis paper. Therefore, I wish to direct your attention now functions from arteriosclerosis, produced especially by toxins hol, particularly through the diverted and perverted nervous and autotoxicosis. Only a very limited part of the subject can be covered in

toxications, first of metabolic order, under which we recognize In autotoxicosis we may include all the endogenous in-

a condition of perversion of the normal physiological function produced by either an excess or deficiency of the normal metabolic constituents; and these constituents not only include the primary materials of nutrition and metabolism, but also the physiological fluids and secretions associated with and elaborated in the process of anabolism and katabolism; these intoxications of perverted metabolism induce a large range of attitudes within the physical economy, more or less responsible both primarily and secondarily for the larger range of physical disease from which humanity suffers, exclusive, of course, of external accidents and some surgical maladies, but nevertheless complicating many times the latter to a serious degree, secondarily and also primarily by its influence in reducing normal vitality and weakening or destroying the normal defense lines of resistance.

Endogenous metabolic intoxications embrace numerous subdivisions, to which we may well direct our attention, the primary function of which is oxidation, which may in turn be divided into insufficiency of oxygen, suboxidation, and superoxidation.

Distoxication and over-exertion also follows; while retention intoxications cover the tox mias produced by retention of bile, perspiration, fixces, carbon dioxide, and the suppression of urine.

Intoxications from salts, acids, alkalies, and acidosis. Intoxications from fevers, infection, and neoplasms.

Intoxications due to the perverted protein metabolism, gwing expressions in cystinuria, alkaptonuria, and uremia.

The perverted nuclein metabolisms producing gout and oxyluria.

The perverted metabolisms of the carbohydrate group: (Glycosuria and diabetic) metabolism of fats, viz. Acene complex

tone complex.
Diseases of special organs: Thyroid, adrenal, pituary bodies, pancreas, liver, etc.

And finally of the second order, parasitic intoxications, embracing both systemic and alimentary intoxications; the former covering infectious diseases and the latter due to bacterial processes and also to the higher parasites, as vermes. This second order of intoxications or parasitic intoxications

and cystolysis. Exaggerations of catabolism and oxidation an autointoxication which are of the nature of accelerations no other intoxication is apparent. We are led to believe organism representing the infection, since in many instances which accrue is resultant from the autotoxicosis secondary infectious diseases, the major part of the deleterious results that it is proper to assume that in the larger percentage of the metabolic intoxications, and evidence is at hand showing distortion of metabolic balance with which you are familiar, which are concurrent in the infectious diseases express a or exaggerations of normal processes of catabolism, oxidation that some micro-organisms are solely harmful through exciting any relation to the specific poison of the particular microto the metabolism of the bacteria and not necessarily bear are endogenous, exhibiting intimate relations to and with infectious diseases. also the acceleration of cystolysis as commonly observed in

overlooked in calculating the etiology of diseased conditions sufficient evidence has accumulated and demonstrations are within and upon the physical entity and its functions, yet study of our pathologists, biologists, and chemists who are our daily observation must confirm the results of the careful acute indispositions to the profound organic changes; yet the large range of autointoxications which are daily exto go into the technic of the processes producing or affecting toxicosis and its congenors. continually underestimated or their relative importance is gerous aspect of autotoxicosis and vet I believe they are numerous within our daily observations to prove the danthe system, and while much confusion still exists as to exact these autointoxications are generated and elaborated within daily seeking and demonstrating the processes through which resulting in varied degrees of invalidism from the slight physical economy, producing or at least influencing morbid panding their virulence on the anatomical constituents of the present and especially in relation to gastro-intestinal autoprocesses of production and actual extent of damages incurred pathological changes or perverting normal physical functions It is impossible and unnecessary in a paper of this length

The trend of modern living suggests the most extensive

chromic organic lesions. divergence from inidicacine functional disturbances reresults which may express themselves in every degree of the nervous system both peripheral and central will show the the gastro-intestinal tract and elaborated through the system. through the toxins formed primarily and secondarily within hist expressed actually as a disordered digestion, and highly the other process must suffer some depression which is usually requires the termination of the blood to the brain, and as engaged in study, business cares, mental anguish, and worry attempt to digest large meals when the brain is actively irrational preparation of same, preversions of appetite, the of improper food either of kind or quantity or quality and of our food, theight consuming larger quantities of food than the rapidity with which we car without proper mastication both cannot be adequately supplied at the same time, one or blood to the stomach and intestines, active cerebration also (sood digestion requires the termination of the excess of the system demands or can use properly. In the selecting possibilities in producing gastro-intestinal autoroxicosis by

Thave referred to me frequently nervous and hald mental cases: functional diversions, whose enology express primary autotoxicosis of gastro-intestinal origin without other complications, and who clear up readily through thorough climinatory processes and the correction of faulty habits, upon which the primary trouble existed, cases who do not relapse excepting through their own indiscretions of diet and faulty hving. However, the effect of autotoxicosis through bad hygiene and bad diet, faulty mastication or other auses, though minimal in amount, in each instance, but more or less continual, will show marked degrees of first physiological diversion, then physical perversion and eventually prinological entities which leaves its impact on the nervous system.

Demonstrations of the effect of autotoxicosis on the nervous system are observed in varied degrees as expressed in the following conditions: migraine, neuritis, epilepsy, my-asthenia, melancholia, dementia, paralytica, periodiac, family paralysis, constipation, nervous dyspepsia, tetany, pain, vomiting, diarrhea, fever, etc.

Stuertz reports a severe case of autointoxication of

pupils, chronic convulsions, pupils insensible to light, slight rismus, increase of skin and tendon reflexes, rise of temperature, slight albuminuria, and a large amount of indicae, but with absence of action or diacetic acid: after entrance to the hospital the pulse fell to hity-two and eventually to forty-two, this bradycardia lasted for twelve days. The treatment which consisted of calomel and colonic flushings was succeived.

guise of medication through the hope of relief from the disproduce drug neurosis in the varied of inebriety. tressing symptoms of their maladies until they eventually system or both, usually allow themselves to succumb to any organic lesions either of the central or peripheral nervous either partially or fully to follow the advice of their physician more grave forms of nervous manifestations or even actual times is puzzling to decide where to begin to establish norma steam with no special evident organic lesions, but whose a condition of communit toxicosis which perhaps began with cossiul. either intrinsic autointoxications over which they have no intrinsic of extrinsic intoxications which present themselves as to propholasis and treatment and who have developed psychosis, while the cases who have begun thus and failed may represent varied conditions of functional or even the selves in a condition of a more or less chronic toxicosis also for the influencing of one or more of the retention into xicaof the endogenous intoxications, with especial predifection duced the other metabolic perversions, including any or many but in the wake of its rapid repetition and continuance in many of them with such frequent recurrences as to express suffer more or less continually with recurrent attacks and arracks, while the rule is that the larger majority of individuals that no halivadual ever existed without incurring one of more the most common occurrence and it is more than probable further control, or from extransic intoxications under the physical function. This class of cases which present them physical functions are so perverted and distorted that it some-THORN transitory or acute auto-toxications of gastro-intestinal origin. Autotoxicosis of gastre-intestinal origin is undoubtedly of Representing a class of cases who consult their phy-

peripheral nerve both in their trunks, and endings in the muscles, but in a much lesser degree than is wirnessed in the nerve centers, owing to the more intense metabolism through the freet suscular supply. The nerve centers are seats of much greater activity and are exposed thrichy to the injurious auditiences of toxic material which may be circulating in the blood current. The ratio of the difference of this effect is proposed by e to one.

the results becognized from the effects of autoroxicosis upon the network system may be both mediate and immediate; both trophic and toxic. And just here I wish to call your special attention to the investigations by our leading neurologists in reference to the relationship of arteriosclerosis and diseases of the nervous system, and also some references to the recent studies on the influence of circulating autotoxins on the production of arteriosclerosis. The older theory that arteriosclerosis was incumbent on hypertention is gradually being abandoned as the cause, although it may or may not be concomitant with the diseased condition of the arteries.

calcification of the aorta from which was concluded that the ministration of euphthalmin, there was produced thereby degenerative changes were due to direct toxic action of the rather than from hypertention. The experiments of other animals, conducted in such a manner as to show that of adrenatin chloride as demonstrating its production from the constrictor action of adrenalin by a simultaneous ad-1906) were conducted on rabbits, in which he neutralized the changes in the blood vessels were due to the toxic principle toxin material and illustrated in experiments upon rabbits and wall refer only to the production of arteriosclerosis by the use process producing this condition which are conclusive, ting all the long explanations demonstrating the immediate diseases have been productive of arteriosclerosis, and omitthat alcohol, rheumatism, malaria, typhoid lever, and such materials circulating in the blood. It has long been apparent demonstrates that the primary irritation is due to toxic investigations of Von-Noorden, Klemperer, and others, Mironescu (three) (Therapeutische Monaschefte, January, The present acceptation of the disease resulting from the

adrenalin on the vessel walls, the variations of blood pressure being only subsidars.

organic, the question of the existence of arteriosclerosis must nearly every chrome nervous disease, either functional or appears that in the diagnosis, prognosis, and treatment of steadily been growing in the minds of neurologists until it nervous and mental disease, the importance of which has trequently, also its results in the influence and production of be dealt with. it is a diseased condition which we recognize much more more susceptible to accident and also to injury. At any rate perverted structures of the blood vessels which render them a hereditary factor may be traced, due, perhaps, to inherited more capable of early and frequent recognition. Then again modern technic and instruments of precision, we may be more extensive lesions of this kind; and again with our range of other contributing causes, there may exist much speed tension employed in modern business life and a large at least taught. From our twentieth century have of highmore common and extensive than formerly conceived of or In the present era arterioscherosis is recognized as much

The position arterioselerosis formerly occupied in relation to senility and old age, which has been assigned it by our predecessors, has advanced during the present generation to manifestations of the commonest sequence of a strenuous, disordered, irrational mode of our life.

In conclusion, let me refer to the studies of Dr. J. Collins, (New York Vedical Journal, June 0, 16, 23, 1906), of the relationship of arteriosclerosis and diseases of the nervous system based on eight hundred cases in which the diagnosis of arteriosclerosis was definitely made, taken from the records of ten thousand consecutive cases of nervous disease, in which he says arteriosclerosis may cause (1) Diseases of the nervous system that are well-defined clinical entiries, and are therefore described as definite diseases: (2) it may superimpose definite or indefinite symptoms upon any disease, incidentally altering the clinical feature of the disease, and (4) It may cause symptoms almost identical with those of well-known diseases. The desirability of early diagnosis in arterial sclerosis is the greater because of what would seem to be the

tracked, but the difficulty of early diagnosis may be very rical vessels susceptible of examination manual or instrugreat and regretably the diagnosis must still often be emptfact that in its incipiency the pathological processes may be referred to there were two hundred and sw panents suffering ductive of symptoms. In the eight hundred cases above macressible are well advanced in the process which is promental, may be tree from preceptably seletosis, while others to the most profound dementia, and between these two exto the cause in which the symptoms varied from slight vertigo from disorders of the nervous system, directly attributable trentes one might had almost any kind of subjective and obof cerebral arternsolerosis heretofore madequately described. tional upheavals, bulbar and spinal symptoms of every sort. rective district ance. paralysis, aphasia, hemianopsia, emoattributable cause and being without emotional concomcases, but nevertheless like them by reason of having no impained snap and vicinity go to make up the picture. headaches shight dizzages, feeling of insecurity of stationand has studied the lesions after death. A fugitive occupital And further, Collins has observed many times a clinical form sparsocodically, as in multiple sclerosis, and old apoplectic of meaningle. Laughter, less often of crying, not coming on THE SHIP The capte emotional manifestations: Attacks -20HO

The most striking teature of the disease is the alteration of the patient's appearance. The individual becomes transformed from a person expressing grace in movement and re-laxation in repose, into an immobile, manimate replica of the

The immobilization gives a more or less characteristic gait and arritude which is remarkable, the stride is short, feet and arritude which is remarkable, the stride is short, feet widely separated and often the patient runs better than he walks. The knee jerk is usually lively and in some cases Babinski's sign is present. Patients thus afflicted are often boked upon as hysterical or neurasthenic. Death may come from syncope, intercranial hemorrhage, or from trifling intercurrent disease. Pathological examination may show the brain normal or shrunken. The vessels at the base may the atheromatous or not, and sometimes the only striking

alterations are in the middle cereberal arteries and their branches. Collins has had fifteen cases with this symptom complex and five autopsies.

The chief manifestations that cerebral arteriosclerosis produces aside from the symptom complex above described are: (1) Insomnia and dysonionia; (2) headache and cephalic parethesia; (3) vertigo; (4) brain tumor symptom complex; (5) neurasthenic symptom complex; (6) epilepsy, foeal, and general; (7) amnesia and dementia; and (8) apoplectic symptoms.

THE SCHOOL PHYSIOLOGY JOURNAL, edited by Miss Cora F, Stoddard, and published by the Scientific Temperance Federation, should have an enormous circulation, as it is the only journal published which attempts to put into popular language the scientific facts concerning alcohol and its effects on the race.

The wide variety of scientific facts that are popularized and presented in language that a child could understand gives a special value to this journal. If the Federation Bureau did nothing else than publish this journal, it would accomplish a great work.

We urge our readers to send to 23 Trull St., Boston, Mass., and get a copy of this journal and become a member of the Scientific Federation Bureau and thus keep in touch with the tremendous strides which science is making to understand this alcoholic problem.

The Bureau is really the great headquarters and center of the literature of the subject, and deserves the warmest support from every student of the cause.

A great campaign of education is before us and the Burcau and its journal are the means by which we can help on this good work. The October and November numbers of this journal contain facts which have never been published in English before, facts that are invaluable for temperance workers and writers, and one of the great fields for reformatory work is the dissemination of accurate literature in every community of the country.

## THE PHYSICIAN AND ALCOHOL\*

BY PROF. DR. MAN KASSOWITZ

or less complete answer, and the data thus given is of special in the appeal to medical science. The hygienist, G. Fraenkel, currously enough, they have found their strongest argument this line. A few publications have treated the subject clinic, medical and lay literature, have been deficient along scientific discussion of the subject; for lecture room and cians have had but little opportunity to hear a connected of alcoholic liquors, under all circumstances, even in small temperance organizations that are spreading rapidly, and it is the laity that have been most active. They have strong have done noble service for the temperance movement, but limited. A few prominent members of the profession also scientifically, but the number of their readers has been very indeed, many even oppose it. True it is that many physifor its safe use? Eighty-nine of these scientists gave a more quantities, to be harmful to the health and questionable of Halle, therefore, put the following two questions to ninetyprofession are indifferent to the temperance movement; practice? Second. If not, where would you draw the line three prominent scientists. First. Do you believe the use alcoholic poisoning, or to know of the universality LTHOUGH no one is better qualified than a physician to appreciate the gravity of the effects of of the evil, as a body, the members of the medical

First in importance is the discussion of the nature of alcohol and its action on the human organism. All substances upon ingestion act as a poison, as a food, or indifferently. A substance under different conditions may act at one time as a poison, and at another time as a food or indifferently; but we know of no substance that is poisonous and nourishing at the same time and under the same conditions. The investigations of the past year confirm the view that alcohol acts as a poison upon all living protoplasm,

\*Translated and abridged by Kent Oakley Brown, M.D., Asst. Physician Walnut Lodge Hospital, and read at the annual meeting at Chicago, III.

ether, chloroform, chloral, paraldehyde, etc. Now, it is still quantities, always acts advantageously to muscular activity. unfavorably to muscular work. A real food, even in small from alcoholics. Roseman admits that alcohol acts very themselves in the best physical condition only by abstaining measured by the amount of expired carbon dioxide, and lost taking alcohol could do less work, expended less energy, tending through a number of weeks, it was shown that a dog as the use of intoxicants is continued. By experiments exeffects appear only after years of drinking, and grow worse jective sensation and the narcotic effect, many of its evil although a tolerance is established in regard to the subthen it acts as a food. This is manifestly erroneous, for that after some days the tissues tolerate alcohol, and that does not reconstruct protoplasm. It is claimed, however, building up of the work-producing protoplasm. waste. To be a food a substance must take a part in the been proven to increase instead of lessen nitrogenous thought of calling a food. Many of these substances have other substances are oxidized in the body, that no one ever claim that it is a food, because it is oxidized in the body; but whether alcohol can play the role of a poisonous food. Many destructive process are of benefit to the organism; that is questioned whether the chemical forces set free by this have a harmful action upon life processes. and in still stronger destroying it. in weak solutions irritating it, in stronger paralyzing it in weight. Every one knows, too, that athletes can maintain Even very weak solutions It ranks with Alcohol

The managements of different armies have been compelled, little by little, to restrict the use of alcoholics among the soldiers. "The abstinent soldier marches better, shoots better, is sick only half as often, has considerably less days of sickness, and is punished only half so frequently for desertions and crimes" (Mathaei). Abstinence from a food cannot have so favorable a result. There is but one explanation. From time immemorial, the strength-giving properties of alcohol have been an article of faith with mankind; and only subsequently have they come to sanction its use by an erroneous professional theory.

Alcohol, though oxidized in the body, is of no more use in

duction of energy. Heat is always formed in excess of the demand, and special heat-regulating apparatus is always at work, removing this excess. Alcohol paralyzes the vaso-constrictors, and inhibits the heat centers that stimulate the several mechanisms that prevent too great cooling, both of these actions facilitating the loss of heat. In the polar regions it has been found to be dangerous to life, where a real food would increase the heat of the body, and in the tropics it has proven equally harmful. German scientists have been unanimous in maintaining that alcohol is not a food. With our present knowledge of the question, we can only decide that "the use of alcohol, under all circumstances, even in small quantities, is harmful to the health and questionable practice."

German scientists again unanimously prescribe the administration of alcohol to a child, under all circumstances. This theoretical agreement stands in glaring contrast, however, to the custom in actual life; for children are allowed to drink in the family, in schools, in hotels, and in sanitoriums, and they will naturally continue to drink during adult life.

approval of physicians in charge, and by medical advice and strengthening; and this error is often confirmed by the tacit scription of a physican for alcoholic drinks as a tonic. This female patients, return to their mebricty upon the prestatement that many of the patients, and especially the responsibility of the profession is again exemplified by the prescriptions. In the report of German sanitoriums the will not be bettered until those who believe the habit an always abreast of the advance in knowledge. Our situation advancing, and the practice of the profession at large is not to the physician. We can only say that we are continually disagreement between theory and practice is embarrassing while the rest of them are still in doubt and under discussion. evil are willing, in public demonstrations and in articles The laity, prejudiced in favor of moderate drinking, naturally favor of alcohol, some of which are manifestly erroneous, to be read by the general public, to renounce reservations in remember best that which confirms their position, and the The lairy cling to the idea that alcohol is nourishing and

effect of the whole is nullified. One can safely leave the exceptional use, should there be any, and instruction concerning it, to the physician in charge, as occasions for them arise. It is to be regretted, too, that personal prejudice and pre-

opinion on the subject, still, medication without alcoholics, good, if not better success; and although the statements of cussion of this important question; so that a quiet, businessto treat pneumonia without venesection. been done a hundred years ago, if one had been so bold as physicians as a careless and serious omission, as would have especially in acute infectious diseases, is openly censured by and our most experienced clinicians have no kind of an our clinicians, as to the advisability of its use, vary widely, pitals in London and Vienna are using much less of it with as possess the paralyzing action of alcohol; and although hos-Although other remedies are better stimulants and do not and con, is not adhered to, as in the case of other drugs. like consideration of the arguments and observations, pro ference come too strongly into the foreground in the dis-It is to be regretted, too, that personal prejudice and pre-

tory activity, until paralysis of the center checks it. this increase serving, in a normal way, to stimulate respirathus augmenting the amount of expired carbonic acid gas: by Binz. Ninety-nine per cent of ingested alcohol (Atwater initial increase in respiration is not satisfactorily explained ent from that on the other centers of the brain, so that the able that the effect on the respiration center is at all differeffect on the central nervous system. It is highly improbparalysis, results from doses sufficient to produce the desired lowed by the paralyzing action, which is prominent and centers. This initial irritation is quickly passed and is foldue, as Binz claims, to the direct irritation of the nerve respiratory activity is at first increased a little by alcohol & Benedict) is oxidized, forming carbon dioxide and water; Now, experiments on healthy animals and men show that Verworn concludes that no stimulation, but only

In pneumonia, when the patient, owing to consolidation, must make dyspn\u03c4c efforts to supply the necessary oxygenation of the blood, it would be highly injudicious, and perhaps dangerous, to compel him to increase his efforts, that he might dispose of the superfluous carbon dioxide, resulting

of alcohol is "extraordinarily unfavorable to muscular activity." In the treatment of the neurasthenic, the nervous, some declaring alcohol invigorating, while others think it and the degenerate, the same difference of opinion exists, from the oxidized alcohol; and especially, since the action

decidedly harmful.

opinions vary widely as to what moderation means. Most of alcohol as the remedy for all the evil effects of excess; but would not only bring upon himself the ridicule of his assosmall a one, that in attempting to thus limit his drinking, one the authorities consulted consider a moderate amount so every day. On the other hand, there are those who are very amount. Some would not even allow this small amount ciates, but he would even be unable to buy so trivial an it to each one to decide for himself the amount that is temliberal in the amount allowed; while still others would leave self-control is injured or entirely overthrown. most men have the desire to drink more and more, while of moderation ignore the fact, that with continued usage excess will induce most men to avoid it. These advocates perate for him, believing that the knowledge of what is The majority, no doubt, would advocate a temperate use of

cerning the evils of the abuse of alcohol as a means of checkit is an important matter; but such education has everywhere ing the excess, and abstainers would agree with them that making the temperance work of no avail. The very vehecause by arousing people to action. They have the advanmence of total abstinence workers has greatly aided the freely and their example is prominent and influential in proven unavailing. Even physicians indulge themselves total abstinence is the most effectual and helpful influence in total abstinence organizations. The example of personal association with them. With children, their work has been been greatly benefited by the instruction of abstainers and easiest. The inebriate after treatment, therefore, has often tage of a strategic position, for radical measures are always very successful, as is witnessed by the numerous juvenile midable ally of intemperance is found in the drinking the cause of temperance; on the other hand, the most for-Many supporters of moderation advocate instruction con-

The Physician and Alcohol

224)

customs of Europe. Moderate drinkers, as well as abstainers.

recognize these two facts. are accused of absurd purposes; and ridiculous inferences are understanding of the motives and methods of its advocates all the pleasures of life; but this is wholly unintelligible to the it penance, castigation, etc.; and insist that it is renouncing drawn from their arguments; all of which simply show how hard it is for them to find just cause for their antagonism. They are unjustly called fanatics, ascetics, and hypocrites: of tuberculosis, cancer, or of the degradation and misery of abstinence, but it is not more hopeless than the extermination alcoholism is not considered by any of the advocates of total rance of the question at issue. Complete extermination of culties are easily overcome, when one appreciates the imporsonal experience of the falsity of such statements. rhousands of totally abstinent families, who know from per-They declare abstinence impossible and hopeless, and call able as are attempts for the amelioration of any of the latter. the lower classes; and work for the former cause is as reason-Opposition to abstinence is due to prejudice and mis-

setting forth the physical, mental, and moral damage from managers of sanitoriums, pastors, teachers, students, merincluding those among the Good Templars, the women observed in Berlin. Ten different organizations took part, use; the accompanying suffering of countless thousands of race deterioration; the brutality and crime which follow its alcohol; the resulting inefficiency, liability to disease, and hundred physicians drew up an appeal in favor of abstinence. chants, railway soldiery, etc. At about this time eight the conflict against alcohol. They are words that should be dents for which alcohol is accountable; and finally urging those who are innocent of any indulgence; the many acciand only a confirmed pessimist can call so reasonable a cause tession; for the physician of the future will be an abstainer pondered, especially by the members of the medical proit, as a duty to our fellows and to self-preservation, to join in Last summer, the first German Total Abstinence Day was

# ALCOHOL AN IMPORTANT FACTOR IN THE EFFICIORY OF MENTAL AND NERVOUS DISEASES

BY D. R. BROWER, M.D., LL.D.

logical factor. This conclusion is accepted quite generally to make its potentiality for evil far surpassing any other etiotion of alcohol does not materially diminish, as witness a Huence from generation to generation to such an extent as as this, and as a consequence of this the number of localities that have become "dry" in the last few years is very surbeing taught with profit the physiological effects and the of the subject is, we can see light ahead in that the people are annually at one billion dollars. United States of the various kinds of liquors they consume recent estimate that places the direct cost to the people of the by thinking people, but notwithstanding it, the consump-It is so subtle, so far reaching, and transmits its baneful inby thousands, but the effects of alcohol surpass them all. pathological results of such consumption, by such societies the consumption of these beverages will be very much reduced. prising, and gives us an assurance that in the very near future LCOHOL is a potent factor, acting directly and indiseases. Heredity, bad environment, the infectious diseases and faulty education number victims directly in the development of mental and nervous As depressing as this aspect

The great power alcohol has in developing and perpetuating insanity and nervous disease is due to its striking effects manifest on the vital organs of the body, which are in part as follows: On the stomach and intestinal tract its functions and its nutrition are seriously impaired; on the circulatory system by increasing the frequency and force of the heart's action, dilating unduly the capillaries generally and of the brain specially, directly interfering with the nutrition of the brain cells by the too rapid movement of the plasma and by blocking the perivascular spaces, and its continued use inducing fatty infiltration of the heart muscle and an atheromatous condition of the arterial walls; on the

brain, spinal cord, and peripheral nerves, upon which it acts as an anesthetic, not as a stimulant, the apparent stimulating effect so often manifest being due to its depressing effect on the inhibitory apparatus, and therefore not an evidence of increased energy, its continued use causing an increase of neuralgia and an atrophy of the nerve cells; on the liver, the liver cells enlarge, become infiltrated with fat globules, the connective tissue cells proliferate, and eventually there is produced a cirrhosis of the liver; on the kidneys, function is disturbed by an increased output of fluid, but with a diminution of urea, in these organs the itritating results manifesting themselves more slowly than in the liver, but in the same manner, and eventually the cirrhotic kidney is produced.

unlike that which oftentimes precedes an attack of mania; "Its first effect is to produce an agreeable excitement, a lively insanity in which the foregoing scenes are more slowly acted we have only to spread the poisonous action over years, as the of mental disorder are compressed into a short period of time, ancholy, as convulsion passes into paralysis; the last scene of lasted for a time, it passes into depression and maudin melaccording to the individual temperament; after this stage has time passion is easily excited, which takes different forms and the automatic excitation of ideas which start up and then there follow, as in insanity, sensory and motor trobles, flow of ideas, and a general activity of mind, a condition not scribes the direct effect of alcohol on the mind, as follows: mental and moral imbecility. Maudsley graphically deunable to withstand the demand of ordinary evironment, a to the offspring an unstable nervous organization that is accessory agent, or it may produce its results by transmitting disease may be the result of this agent alone, or it may be an choses or neuroses? It may do so directly, that is, the wonder that this agent is potent in producing various psyregular drunkard does, and we get a chronic and enduring because the action of the poison is quick and transitory; but all being one of dementia and stupor. The different phases herence of thought and speech is exhibited, while at the same follow one another without order, so that more or less inco-When these various items are considered, is it any

excited, which takes different forms according to the individstill have it played out in the lives of his descendants; since stop to the full development of the tragedy in his life, we may ual temperament: after this stage has lasted for a time, it speech is exhibited, while at the same time passion is easily Or, if death, cutting short the career of the individual, puts a action of the poison is quick and transitory: but we have only are compressed into a short period of time, because the mentia and stupor. The different phases of mental disorder passes into paralysis; the last scene of all being one of depasses into depression and maudlin melancholy as convulsion to the full development of the tragedy in his life, we may still death, cutting short the career of the individual, purs a stop which the foregoing seenes are more slowly acted. Or, if drunkard does, and we get a chronic and enduring insanity in to spread the poisonous action over years, as the regular drunkenness of the parent sometimes becomes the insanity have it played out in the lives of his descendants: since of the offspring.

orel \* illustrates in a striking manner the heredity of the

question, as follows

#### First Generation

Depravity, alcoholic excess, degradation Drunkenness, maniacal attacks, general paralysis. Second Generation

Hypochondriacal tendencies, melancholia, suicidal and Third Generation

Fourth Generation

homicidal tendencies

CALIBERTOR OF ERCE. Under-cloped intelligence, mental obtuseness, sterility, and

1 meanity

cent of all cases it was the chief if not the sole agent. of insanity has led me to the conclusion that in lifteen per report for 1996, publish the fact that in private cases alcohol The Commission of Lunacy for Great Britain, in their A careful study of the relation of alcohol to the causation

Trate dis Digene escanos

was the cause in 16.7 per cent of males, 8.5 per cent of females. Alcohol in the Etiology of Mental Diseases

in pauper cases, 23,3 per cent males, 9,3 per cent females. The Danvers ( ass.) Insane Hospital annual report gives the following statistics of male cases produced by alcohol

from 1903 to 1907:

Tyoh, 1004. 1007. 1003, 27.0 25.0 23.0 -8.c 10.8 per cent.

choses due directly to alcohol, and six per cent of the female Cases. thirty per cent of the male patients were suffering from psyhis Psychiatric Clinic of Aunich, for year ending 1905, that thirteen hundred and seventy-three cases admitted to Kraeplin\* reaches the conclusion from an analysis of

Indirectly and as a co-operative cause its action has a

much wider range, and it may thus even have its part in as much as hire per cent.

males alone, 51.8 per cent. of all cases that come to his clinics, and, considering the accessory effects of alcohol are responsible for \$4.0 per cent Kraeplin has reached the conclusion that the indirect or

cords show that \$1.0 per cent of male cases and \$3.0 per cent ing general paresis is important. Kraeplin's clinical reexcesses that long preceded the development of the menta of female cases had a history of early alcoholic excesses. paresis is the combined resultant of syphillis and alcohol, and symptoms; and he has reached the conclusion that general my own studies have led me to the same fonelusion. General tion in lower Egypt, Palestine, Turkey, and Japan, and paresis is almost unknown among thos, peoples who do not and yet sephilis is probably much more prevalent there than found that the disease is exceedingly rare in these countries. use alcohol to excess or not at all. here, and among all of these peoples alcohoos is not used as a The relation of alcohol as an accessory factor in develop-I have studied the ques-

<sup>\*</sup>Der Alcoholismus in Munchen, Munchener Medicinsche Wocher einen

beverage. Eliminate alcohol from the etiology of general paresis, and the disease will be as rare here as in those countries.

### Importate and Ideory

Bourneville in one thousand cases of imbecility found alcoholism in the father four hundred and seventy-one times, in the mother eighty-four times, in both parents sixty-five times.

Demme 2 found alcoholism in 81.9 per cent of parents, and moreover that in the families of alcoholics only 17.5 per cent of the children were normal.

Peterson artributes nine to sixteen per cent of the cases of imbecility to alcoholism.

#### Epilepy

Spratling in an analysis of one thousand and sevent weke found alcoholism in sixteen per cent of the fathers and twelve per cent of the mothers. He quotes from Kovaleosky as follows: "Caucasus is a country of grape and wine making." The drinking water from the mountain tryers is bad, but the wine is good. The natives of Caucasus quench their thirst, not with water, but with wine, and the wine is no light one it contains from 5 to 15 per cent of alcohol. Wine-drinking is so common that no one considers it includes. Everybody knows what a high percentage of epilepsy is caused by the abuse of alcoholic beverages. I have spent the summers during the last lifteen years in Caucasus, where I have a medical practice drawn from a large district, and in no other place have I had so large a proportion of epileptics among my patients."

But whe take your time in multiplying instances of alcoholic etiology in mental and nervous disease? The great problem before us is prevention, for in no other department of medicine is the old adage so true that "an ounce of prevention is worth a pound of cure," and this must be accomplished nor so much by legislation as by education

Progres Medical 1867, No. 3

Recherches Chaiques de Therapeuropee dus Epitebean Historia en Idores, Paris, 1902.

Thirty and is Troublant, p. 37

## ALCOHOLIC INSANITIES

BY ALERED GORDON, M.D., ASSOCIALE IN NERVOUNAND MENTAL DISEASES, JEFFERSON MEDICAL COLLEGE, PHILADELPHIA

The subject of alcoholism is one of the most reportant. The pernicious influence that alcohol exercises on the individual's physical, intellectual, and
moral spheres of life shows that this poison presents a serious danger to society. Diametrically opposite
views have been held as to the advisability of the use
of a modern amount of alcohol as a daily habit. The most
recent researches of Roid Hunt throw considerable light
on the physiologic side of the question and show in the most
conclusive manner that even extremely moderate amounts
of alcohol may cause distinct changes in certain physiologic
functions and that under certain creumstances these changes
may be miurous to the body. Certain physiological processes
even in moderate drinkers are distincely different from those
in abstances.

We will not be conterned been with the particular straight with an acutely or chronically uncharsed indicate or is called the latter than acutely or chronically uncharsed indicate or is all the mental beautiful and the particular process and the mental backward in the particular and the mental features. When the particular in the particular and the mental features and the particular and the

because the pareties to example by-reason of their pervered facultic sur it their delusions, all the degrees of an active measuration may be observed. In some cases alcohol in small quantities, in where and stimulates the morbid activity the pareties, in where, in addition to the simple excitation, there are all others an arrack of a safe addition will mask the physical and mental symptomics. It becomes then somewhat difficult to appraciate properly one or the other. The alcoholic firm into also mask the motor phenomena of paresis, and the abarecies in a slice that exercise speech of the larger may loose its special feature. In such condition, the diagnosis becomes obscure.

such case one may uniquerably influenced by alcohol. In debterage, one may unserve the existence of two kinds of debterages one may unserve the existence of two kinds of debterages one may unserve an epileptic arrack and of which the memorial value are carally unconscious, the other which they removing with a their sain give a good account of their halludemands and at their sain they carally the datted is trequently observed unto devoloping and, in fact, is expical of this intoxication. These two states while they possess their own characteristic flavors, have an undoubted influence on each other; one aggravances the other. The medicologic importance of this flavors more observes to dwell on.

Astandance to excesses and expecially to alcohol excesses a not introduced by the introduced in paramota. Here the introduced in aggregation, the persecutors of other exceptanced deductions. Association of alcoholism, with semile dementia, although less techniques that with pare we dementia, is, however, not rare.

In all these instances the diagnosis is sometimes surrounded with the difficulties. Nevertheless, in the majority of these cases chose and move or less prolonged observations will make its ordisclose the primary affection superimposed or masked by the mental disturbances of the provinciance of the provincians.

In acuse alcoholic intoxication complicating mental diseases, the delicatin and hallucinations usually decrease rapidly and finally disappears, the toxic tremer becomes gradually less marked of disappears. In some cases these phenomena may last a longer time, and then we winess the curious combination of vague hallucinations or of vague.

persecutory ideas alongside of expansive delusive thoughts in paresis.

I mention above the very currous association of two kinds of delirium in epilepsy.

The senile dement not infrequently has attacks of agitation subsequent to an alcoholic excess. Here, again, the toxic phenomena disappears rapidly, to lay bare the habitual symptoms of senile dementia.

tremens. frequently repeated, and constitute the so-called deligum Theless not very pronounced; in the other the manifestations them the delinous symptoms are sudden in onset, but neverin which the disorder is protound, permanent, and irrewhich the symptoms are transitory, fugacious, and the other in discriminating the symptoms of the primary affection longer period. Even then there will be no special obstacle toxic attack, but the pre-existing paranoic phenomena conare very acute, usually occurring when the alcohol abuse is holic intoxication naturally embraces two stages; one in and those of the added toxic conditions. The state of alcofinue their monotonous evolution. Sometimes the toxic defusional conceptions are characterized by mobility and original malady is, so to speak, stereotyped; it is fixed; it is occurring in paranosa, we can see that the delusion of the delusional rhoughts with the hallucinations may persist for a variability. The hallucinations are of the same nature object of his enemies doings. In alcoholic delirium the poisoned, hypnotized, or magnetized, is invariably the same by no means variable. The paranoic, who is being persecuted, All these symptoms disappear with the disappearance of a If we turn our attention to alcoholic mental phenomena The first presents two subvarieties, in one of

in chronic alcoholism there is a long, slow, but progressive intoxication. Here the hallucinations leave, after their disappearance, delusional ideas, and the mental faculties in general present a certain degree of feebleness. While chronic alcoholism is not absolutely incurable, the usual result is dementia.

The not infrequent association of alcoholic intoxication with other mental affections had fed some alienist to consider the latter as a result of the first. In fact, psychiatric

hterature is abundant with examples of so-called "alcoholic paranoia," "alcoholic mania," and "alcoholic paresis," etc. Long ago these views appeared to be erroneous, and the more I studied the subject, the more I became convinced of the untenability of this point of view.

Summary of Cases: First Half

The present study embraces four hundred and thirty-seven cases and covering a period of three years of close observation, mainly at the Philadelphia Hospital, but also in other institutions and in private practice, was undertaken with the object of determining the forms of mental disorders in acute and chronic intoxications of alcohol, also the possible justification of some writers in describing alcoholic pararoia, mania, etc.

over precipices. Being under the influence of hallucinations bodies; or else they felt they were being drowned or thrown mutilated; they felt serpents, insects, worms devouring their the gustatory apparatus they tasted all sorts of nauseating substances. Finally, through the sense of touch, the pablades of knives penetrating their flesh, they were being tients believed themselves undergoing torture; they felt the apparatus they received the most repugnant odors. Through ing of sharp instruments or firearms. Through their olfactory honor and morality, groaning, complaints, screams, clatterheard threats, bad names, oaths, accusations against their tions, fires, etc. Through their auditory apparatus they rifying animals, assassins, robbers; they witnessed execufestations they all exhibited disorders in their sensorium. delusions were also present. The remaining forty patients sented a more or less mild delirium. Hallucinations and also a stuporcus condition, besides a confusion. All preacterized by a marked confusion. In eighty cases there was a period of from three to eight days. They were all char-I hrough the visual apparatus they saw before them terpresented the well-known syndrome of delirium tremens. state, from which they recovered quite promptly, viz. within twenty, presented the ordinary symptoms of an acute toxic alcoholism, the majority of them, viz. one hundred and Except a few variations in regard to the intensity of the mani-One hundred and sixty cases presented symptoms of acute

they were excited, defended themselves, threatened, struck, or else were terrified and lay immobile. These mental phenomena were accompanied by a tremor affecting the hands, or the upper and lower extremities, or the latter and face. In some cases the tremor continued even in sleep.

The two categories of acute alcoholism observed by me in one hundred and sixty cases presented a good recovery. No sign of oncoming dementia was noticed when I saw them last. Some of the patients I had the opportunity to observe on subsequent occasions, viz. during second, third, fourth and fifth attacks. The mentality remained clear when they were discharged.

as the majority of drinkers usually combine these two ties of whiskey. It is difficult to establish this relative effect, tities of beer were identical in their influence to small quantiand whiskey, except that in the majority of cases large quan-There is nothing definite to say as to the relative effect of beer more easily affected by the poison in small amounts than men. ever, that in the majority of cases (not in all) women become mild form of acute alcoholism. It is interesting to note, howtremens, while larger quantities produced in some cases the small amounts of the beverage sometimes produced delirium symptoms there was no parallelism. In some cases, very hve). As to the relation of the quantity of alcohol to the toxic affected more frequently women (fifty-five) than men (twentyin men (twenty-eight), the so to speak subacute alcoholism to mention that, while delirium tremens were observed mostly Before I dismiss this part of my study it may be of interest

Summary of Cases: Second Half

So far the results of the first half of my study present no special features. They are, on the whole, similar to those obtained by other observers.

The more interesting is the second half, in which the investigations concern two hundred and seventy-seven cases of chronic alcoholism.

The mental disturbances of a chronic alcoholic nature may follow repeated subacute attacks or repeated attacks of delirium tremens, but they may also develop insidiously and progressively without preliminary acute symptoms. Before

taking up the special features concerning the individual phenomena. I will endeavor to present a general picture which I was able to draw from a wholesale observation or two hundred and seventy-seven patients.

Intentionally I will refrain from describing the physical phenomena caused by chronic alcoholism, as, for example, the tremor, convulsive sezures, muscular weakness, sensory disturbances, gastrointestinal, respiratory, and circulatory disturbances, etc.

and its ultimate result is terminal dementia. lution, therefore, of chronic cerebral alcoholism is progressive patient's dementia is permanently established. The evodisorganized, the judgment becomes infantile, and the apathetic, brutal. His cerebral functions become irreparable laws are totally ignored. The patient becomes indifferent are not infrequently observed. Gradually the moral sense intensified by halfucinatory images, and criminal tendencies and the sense of propriety, become deteriorated; conventional importance, lead him directly to delusive ideas, which become cation for work, physical or mental, is decidedly impaired depressed, his memory becomes clouded, the power for appliwill power and the energy. The patient soon becomes surroundings. At the same time appears a weakness of the rability, which at hist is noticeable only to the immediate becomes conspicuous the patient begins to show undue itiintellectual feebleness, viz. dementia. Before the latter The sadness, the realization of his physical and mental The mental stage consists chiefly of a gradually developing

Let us take up now the special symptoms as they pre-ent themselves in my cases.

#### Delusions

These were present only in one hundred and bity-four cases. The majority one hundred and eleven were of persecutory character, decidedly unsystematized, sometimes extremely vague. At times they would disappear, but then reappear. They were either moderately or extremely mobile. Mithough the patient was invariably the object of the persecution, nevertheless the mode of the persecution changed frequently. At one time he was going to be put to deathat another time he was simply called bad names, at still another

time he was the subject only of jealousy. Hypochondriacal delusions were rare (ten cases). There is a general belief that delusions of marital infidelity are very frequent in chronic alcoholism. I have observed them only in twentynine cases.

As to the question of alcoholic mania, melancholia, paranoia, or paresis, my one hundred and hfty-four delusional cases show the following:

## So-called Alcoholic Mania

It is true that some patients out of the original four hundred and thirty-seven were first seen with agitation, with talkativeness, but none of them, I may say, presented the typical picture of true mania in which the confusional element is absent, and the mental lucidity rather pronounced, and in which hallucinations are rare. The agitation in those cases was accompanied by a delirium: the hallucinations were terrifying. When a maniac who is prone to commit excesses drinks, he may develop hallucinations and a delirium, but the abatement of the latter symptoms at the end of a few days will expose the primary affection.

I made this observation in a number of instances. Cases that may have suggested acute mania or hypomania were observed in the subacute form and in the chronic form of cerebral alcoholism. In the latter case a recent ingestion of alcohol produced a mild acute delirious attack which was rypical of toxicity.

## So-called Alcoholic Melancholia

In five out of one hundred and eleven cases with unsystematized delusions there was the element of the unpardonable sin so characteristic of melancholia, but a close observation showed that, while the patients would incessantly blame themselves for such imaginary sin, nevertheless the other characteristic features of the malady were absent, as, for example, the painful emotional state, the depression following it. In eight cases there was marked depression with persecutory delusions, but there was not the idea of self-blame, of physical worthlessness. In none of these thirteen cases, which suggest at first glance melancholia, was there the remotest rendencies to self-destruction, which is so frequent in melancholia. The depression in the above eight cases was not a

Alcoholic Insanities

state which is so common in alcohol intoxications genuine painful sadness, but rather the result of the stuporous

## So-called Alroholic Paranoia

tion existed at hist, it became disorganized later. On the study on repeated occasions showed that, while systematizateen presented systematization. A close and prolonged of the disease when delusions develop and the dementia is sistent. Whether they were encountered in the acute or intensified by hallucinations, but they have never been perof acute cerebral alcoholism I have not infrequently observed paranoia. In my first series of one hundred and sixty cases with a tendency to homicide, which is so characteristic of longer period there was at no moment the spirit of revenge other hand, when a systematized delusion persisted for a chronic forms, these delusive thoughts could easily be shatfixed systematized delusions with homicidal inclinations during the period of delusional development is very mild. rather pronounced. In paranoia the degree of dementia in the latter is the most essential feature, and at that period found it with a chronic cerebral alcoholism. youth, is so characteristic that it is not an easy matter to conspicuous degenerative basis, which can be traced from early as an essentially chronic mental affection developed on a conthe true nature of the affection. The evolution of paranoia and the faces of my patients, aided considerably in eliciting in true paranoia. Besides, the more or less delirious states tered by persistent argumentation, which is not possible Of the one hundred and fifty-four delusional cases four-The dementia

## So-called Alcoholic Paresis

the guttural and labial letters are practically affected. In the characteristic paretic speech in which, as is well known; of a coarse tremor of the lips, but never was there present sensual reflex. The speech was frequently tremulous because of the eye reflexes for light or accommodation, or of the connoticed any irregularity of the pupils, marked disturbances served in fifty-two cases, but with two exceptions I never characteristic of paresis. fine fibrillary oscillation of the tongue and of hands that is one hundred and one tremor was present, but it never was that Among the two hundred and seventy-seven chronic cases, in Pupillary inequality I have ob-

> in those none of the above-mentioned physical signs were thirty-two cases a marked expansive state was noticed, but delusions are present. In such cases, close observation will resembles that slightly stuporous state of chronic alcoholism sive form of paresis, in which the expression of the faces diagnosis of the paretic dementia. Sonie difficulty is excombination of the symptoms on which we usually base our present. Not one of these cases presented, I may say, the be present in the form of alcoholic dementia I speak of. in which dementia is gradually developing and no distinct perienced in cases of initial stage of paresis or in the depresalways reveal mild physical signs in paresis, which will not

value of the association of symptoms of acute intoxication At the beginning of this work I dwelt sufficiently on the

with paresis.

acute or chronic. paresis cannot be the product of alcoholic intoxication, izes me to conclude that melancholic mania, paranoia, and My study of the several hundred cases, therefore, author-

Other Features

and spirits figured in them continuously. The majority of transitory hallucinations more of a religious nature. God in seventy-six cases, and in some was accompanied by chronic cases. Simple dementia with delusions was present these cases, fifty-eight, never had an acute period. The alcoholism, although the relative percentage was not so high thirty). The same observation I made in acute forms of hallucinations were of auditory nature (one hundred and presented in previous life several attacks of subacute alcobut without interruption for years. The remaining number patients were mostly business people, who drank moderately, holism or one or two delirium tremens. The majority of Let us turn our attention now to other features of my Age Incidence

dementia develops early in life in chronic alcoholics, at an ago twenty-five. This observation is important. It seems that that age. In only one case marked dementia was noticed at lesser number between forty and fifty and still lesser above distinct dementia were between thirty and forty years, a majority of my patients (one hundred and twenty-nine) with Interesting figures are found in regard to the age. The

when normal activity is at its height. This cerebral activity is, therefore, interrupted at a useful and prolific age. The duration of the use of alcohol has apparently no marked bearing on the date of the onset of chronic cerebral alcoholism. While it is true that the majority of these patients began the use of the poison at a very early age, there was a number of cases in which the dementia set in early. It seems that the individual predisposition is a very potent factor in early or late development of the symptoms.

Neuritis

Multiple neuritis was observed in seven chronic cases and in three acute cases. The latter presented a marked confusional state with inability to recognize place and time; there were also illusions of identity. The three patients recovered mentally, but the polyneuritis symptoms remained. The chronic cases presented the amnesic form of Korsakoff's psychosis, but there was also a more or less pronounced dementa

Condusions

The present study establishes, I believe, this fact, that alcoholic insanity presents special characteristic features which it is not difficult, in the majority of cases, to distinguish from other analogous conditions. Acute cerebral alcoholism presents three states: delirious, confusional, and stuporous. The intensity of these states varies according to whether we deal with a subacute form or with delirium tremens.

The chronic form leads inevitably to dementia. In the course of development of the latter, delusions with hallucinations and illusions may and may not manifest themselves.

In the latter symptoms may sometimes present a picture of any other psychosis, this resemblance is only apparent, as in the majority of cases close observation will enable us to find the proper interpretations.

If the symptoms proper of cerebral alcoholism may somerimes develop in individuals affected with other psychosis, who happen to commit excesses, or do so because of the perverted mode of thinking or feeling caused by the psychosis, it does not follow that alcohol is capable of producing these psychoses. The conception of alcoholic melancholia, mania, paranola, or paresis is unscientific, as it is not based in acute observation.

# THE PAUPER INEBRIATE FROM A MEDICAL AND LEGAL STANDPOINT

BY L. D. MASON, M.D., BROOKLYN, N. Y

he, therefore, is an irresponsible person and unsafe to be at large, and demands legal restraint and medical care. He should be a ward of the state.

and treated as a distinct class, as are the criminal, pauper, and the insane, and not as is now the case necessarily, con-

tounded with either.

The modern method of dealing with the inchriate is a travesty on law, justice, and equity, a burden to the taxpayer, and directly opposed to the rights of the individual and society. It is the standing opprobrium and product of our state legislatures who promote and sustain, and refuse to repeal laws enacted in ignorance and out of date, for reasons best known to themselves and their political constituency. The oreat majority of the states have no provision for

The great majority of the states have no provision for pauper inebriates outside of the criminal law, and where it is provided, it is inadequate and not complete or satisfactory.

As a rule we have put the ban of criminal on the inebriate. We penalize him in order to reform him. This is the best that the twentieth century law and medicine can do for the inebriate, to place the mark and disgrace of criminality nor only on him, but also on his family.

The indictment against the present law is that it is in no sense deterrent or reformatory, but precisely the reverse. The short term of imprisonment and fine practically puts a premium upon and encourages inchriety and drunkenness, a burden upon the family and friends of the inchriate himself, and makes restoration to his social, commercial, and political privileges almost impossible. Society will welcome back to its various relations the so-called reformed inchriate, but rejects the man who has a past criminal or insane record. We should not put the ban of either on the inchriate.

Presented before the Virginia Medical Association at Richmond, Va.

a long way to support farm colonies conducted on the long every city of the first class, a surplus large enough to go It not altogether, meet the needs presented. The physician, tion and special legislation for the inebriate, would largely, demand and centrol and enforce legislation. enacted should be strong public sentiment that should been lack of unity in these particulars. Back of the law so efforts for the inebriate have failed in the past is there has together and formulate such legal enactments as shall meet the lawver, the penologist, and the disciplinarian, must come term hasis of committal. Such colonies, such places of rewisdom and experience of all. the case; neither can alone, straint, treatment, and discipline land I would emphasize the with the itinerant inebriate, or very aptly sorled " rounder. irregular, intermittent, spasmodic modern method of dealing treatment and protracted isolation; as contrasted with the society and himself receive the benefit of his continuous municipal and charitable funds and institutions, as well as last term), present the conditions that with proper classifica-By the proper means thousands of dollars would be saved in year, or less often, instead of every few days, and thus sense why should not the inebriate be arrested only once a to public and private charity. In the name of common sance and It is an imposition on the taxpaver, to say nothing of a nunstead of once annually or permanently, incorrigible cases. trates to arrest and commit repeatedly every lew days, inmore, and an additional burden to the police and the magiscommunity. Under the present shameful system, if we can mebriates or rounders mean ten thousand annual arrests, or call it a system in this connection, one thousand innerant are a mere sham and a pretense, and a disgrace to a civilized the state by the present meffective and foolish laws. social and financial burden inflicted on the municipality and he has enough to carry. We need hardly mention the great grievance to society, and a great burden on the It will need the combined The reason why legislative

in common sense measures. Neither law nor medicine nor the knowledge of the penologist nor the experience of the ebriate is too many impractical theories and lack of unity The great obstacle to success in legislation for the in-

> these medicine holds the most important and first place. disciplinarian are alone needed, but all combined, and among

first-class farm colony for such persons and keep them for a enough wasted in these foolish efforts to equip and sustain a conditions exist in other cities. Literally there is money cent of this was for unnecessary recommitals. eighth of the total cost of the police department. handling the inchriate population in Boston in 1898 was one concerning the inchriate world be diminished. would be practically solved, and the business of the courts mit the innerant inebriate for one year or more, the problem the drunken population of our cities would be cut down at once, the expense of the police department in relation to population in our cities could all be arrested and committed occasion and makes business for the courts. election day. He swells the police force and creates the and gives him value as a repeater from one to ten votes on professional politician. The lodging-house colonizes him, rounder, panhandler, tramp, is a most valuable asset to the sities of the case, but the pauper inebriate of the class hobo, legislative apathy and indifference and ignorance of the necescation in this matter, emanating from medical sources, the inebriate; are interested. control of the pauper mebriate may be drawn, and all will What is the great obstacle to special legislation in behalf of fail if the popular sentiment and vote are not with those who But the most desirable laws to regulate the care and In the words of a police magistrate, if we could com-The exerct of the whole matter is not only There should be a campaign of public edu-If the drunken The cost of Fifty per

through the tramp. and the foolish philanthropist cater directly to the saloon that a vicious circle is established in which the low politician given to these tramps keeps them alive and perpetuates their keeping a certain hold on office. Indiscriminate charity itinerant inebriate through the saloons for the purpose of Politicians recognize the necessity of eatering to the The money they receive all goes into the saloon so

dealer and the brewer are the great centers and the saloon The complex political machinery in which the liquor

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 corporate and transpose are the expects and provinces a axion of every city where or expensive are sold. Then the harms for a comparison of the attempts to terminal of a soles of other order of the province of the province of the build points. If they are a control of the control of the build points. If they are not to transpose of other ordered as the commutations of the periods of one organized or opening dependent of the periods of the order of points of particular the results are associated. If they was absolute the province of the order of multiples and the same are also as a province of the periods of the order of multiples are drawked and encouraged, and encouraged and encouraged

The the phase was a process of position. We received the second of the the has an influented, degreebed to accept a factor to positive to all matters that portain respect to the particle of the public brains, and the care arms and preventent or discuss. Therefore, we believe he could be father visuality to a to appear a superscript to pay a superscript to pay the public of a startist a some record to prevente the public of a startist a some record to prevente the public of a startist a some record to prevente the particle of the particl

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we believe that great service could be rendered this state by the establishment of a state institution for the treatment of this class of patients to which they may be committed voluntarily or by order of the court. Now, THERIFORE, it is resolved that we recommend the establishment and maintenance by the state of an institution for the care and treatment of mebriates and persons addicted to the excessive use of the state of New York and the legislature the necessity and importance to society of the establishment of such an institution."

The state society endorsed and recommended the establishmen of such an institution.

Previous to this meeting the governor met by appointment Dr. Spencer and Andrew M. Bronie, of Watertown, and several state officials in correrence in Albany. Result, there was not any bill introduced, but it was deemed thest to have a commission to investigate the necessity for such an institution, so that a measure was introduced providing for the creation of a commission to investigate the subject, and report to the legislature its recommendations as to any amendments of the statute for such an institution, and as to any amendments of the statute with reference to the committal of inchriates to such institutions, such legislation applying especially to the control of the *Paupar Inchriates*.

The International Congress of Alcoholism to be held next year in Fondon has already mapped out an outline of the proceedings. The Congress will open Sunday, July 18, by services in the leading churches and a reception to the foreign guests.

On Monday an inaugural reception will be held. Every morning tollowing there will be a general meeting and discussions on all phases of the alcoholic problem. In the afternoon and evening sectional meetings will be held.

The Congress will be held in the Imperial Institute. South Kensington, and a large delegation from this country is expected.

### EDITORIAL

Fire Journal of Inerkiety is not responsible for the opinions and contributors

Our Society for the Study of Inchriety and Alcoholism has very seriously offended a writer in the London hospital, who complains bitterly of the extreme views which were uttered at the annual meeting and published in the JOURNAL.

Under the title of Laboratory Temperance the author asserts that "alcohol is not a poison except in large doses, and that there is no need for laboratory study, for human experiment is perpetually before us." He is sure that the deductions of the poisons of alcohol are fallacious and misleading and believes that alcohol perpetuates the race, and increases good fellowship, and that while they may be very bad in a few cases it is certainly unscientific to denounce them without qualification.

There is something very pathetic in criticisms of this kind. Many years ago before accurate research had accumulated data in this field such protests might have been considered, but to-day with all the evidence at command from both laboratory and clinical research, it has the sound of persons who have failed to note the rapid advances of scientific study.

For years the JOURNAL of INEBRIETY has been the center of continuous protests, criticisms, and appeals to take a moderate view of the subject and recognize the value of alcohol as a food and as a beverage.

Of late these protests are growing less and less. Our answer has always been that the object of the JOURNAL was to publish the evidence founded on accurately observed facts, and that any theories based on personal opinions were not reliable.

We fully recognize the fact that moderate drinkers and persons unacquainced with scientific research will continue to defend alcohol and horestly believe that it has some place in the economy of nature. The intensity of the subject has called into prominence paid defenders of pro-alcoholic theories, but this literature is transient and only indicates the failure of the authors to realize the real facts.

There is something pathetic and sad in the efforts of good men to explain, apologize, and commend the use of alcohol, and condemn

the teachings of advance science as extreme and irrational. Our society and JOUFNAL began in this storm center and have gone on for mg in vigor and strength from these very criticisms and protests nearly forty years, leading the advanced studies in this field, increas-

### Contigion of Inchristy

certainty as the transmission of cells. these impressions grow and produce similar conditions with as much drinkers who impress their opinions and habits of life on others and fact supported by unmistakable evidence. There are moderate The statement that inebriety is as contagious as consumption is a

almost everyone, but for reasons they do not develop only in a certain inebriate. Unlike the germs this contagion is mental, but equally proportion of cases. The same may be said of the contagion of the Consumptive and typhoid fever germs are taken into the body of

it had some great value in physical and spiritual life infected his stusician who used wine on the table and extolled its virtues and believed inebriates and died directly or indirectly from the use of spirits. dents to the extent that nearly half of all his private students became positive in its action and effects. Innumerable examples will occur to every reader. A famous phy-

some unknown way to follow his example. boasts of his use of alcohol impresses those in contact with him in In another there is no such antagonism. In one nature has provided distinct antagonizing and repelling powers. A mental contagion is more dangerous than a germ contagion. The moderate drinker who

becomes a contagion and disease. or improve the vitality and vigor (which is absolutely impossible meaning by that to use small quantities of spirits daily and retain Hence the terrible delusion of trying to drink like a gentleman.

construction of these words, and the results which follow confirm it Inebriery is both infectious as well as contagious in the strictest

tions are numerous and very striking. minated as dangerous and unfit. chriate going about in a hilarious stage impressing his condition and personality on all he comes in contact with is equally dangerous and ver is not recognized. A smallpox case creates alarm and is quickly isolated. An in-In business circles such a man is quickly eh-From this point of view illustra-

The increasing number of papers appearing in magazines and the

of study for scientists and reformers, aspect of it are unmistakable signs of a new literature and a new field lay press devoted to the alcoholic problem, particularly the scientific

dulity and faith in old-time theories that is not helpful or illuminating and revealing their personal habits. Others show a mystical crefuture reputation. have put themselves on record in a most unfortunate way for their Both the president and a prominent professor of an eastern college Some of the papers are prominent in giving the authors opinions

alcohol as an exciting and predisposing cause and its prevention and cure are going to be the great problems of the near future. the mebrate is a sick man suffering from disease, and that the use of to the recognition and development of every great scientific truth. Above all the present controversy there is unmistakable evidence than treated the whole subject as if it were a political one, Several physicians have shown a lamentable lack of knowledge and This is incident

psychopathy and the physicians will be the teachers and leaders at an The subject is coming into the ranks of preventive medicine and

## The Great Local Option Agitation in England

crown and continued during life. granted by a board of magistrates. This board is appointed by the License for the sale of beer and spirits in saloons and hotels are

wishes of the people. of spirits, and license saloons everywhere without much regard to the sold. Often these magistrates are brewers and interested in the sale The people have no choice as to who and where spirits shall be

and local option given to the people who may vote in every town of Lords and Parliament to have the license by magistrate repealed whether spirits shall be sold or not. This past year a tremendous effort is being made in both the House

house and this will seriously interfere with the traffic. sections of Great Britain will vote out the saloons and the public liquor interest and creates intense excitement. If it passes large This is one of the most formidable movements which peril the

thought that local option will pass, but the other bills will be put over quenting such places. This is another revolutionary measure. It is to act as barmaids, and prohibiting women and children from fre-Other bills have been presented to Parliament forbidding women

Enthusiastic meetings, protests, resolutions, and arguments proand con are subjects of intense excitement and controversy. A great temperance revolution has begun and old-time theories and customs are doomed in face of this rising tide of evolution.

Our Society for the Study of Inebriety and Alcoholism will hold a semi-annual meeting in Washington, D.C., the last week in February, 1909, and a very enthusiastic meeting is expected.

### Heoholie Studies in Germany

It will surprise our readers to know that there are over thirty peniodicals published in the German states devoted to the general subject of temperance. One of the largest is the Monthly Journal for Alcoholic Research and for the Suppression of Drinking Customs. Another one is called The International Monthly Journal and a third one on Alcoholism, which is devoted to research work and contains the best matter writter along scientific lines.

Curiously enough the literature is very voluminous and cheap. Reprints on all phases of the subject are scattered freely, and while the impression is very strong that Germany is a great beer and wine drinking country, in reality the anti-alcoholic literature is more voluminous and assertive than in America.

There are in Germany forty distinct inebriate institutes or hospitals all run on sanitorium lines. Some of them report fifty per cent of permanent cures, but it is very evident that the lack of uniformity of control and state protection diminishes their usefulness.

A great deal of the literature discussed in these German papers is elementary, and concerns matters that have very little interest here. Thus questions of how far one can drink without being harmed and whether the damage from drink comes from poor beer and fortified spirits and how far good fellowship and light drinks can prevent the use of stronger spirits.

Only recently have some of the authorities began to recognize the disease element. Some recent studies indicate that they have at last recognized that mentally deficient persons are more likely to succumb to alcohol than others, and that the craze for spirits is very often a mental defect not due to spirits, but to some other condition.

During the past year several very important papers appearing in the English language, notably in the JOURNAL OF INEBRIETY, have formed the basis of important German essays, showing that the seed of truth has taken root and is growing up in new soil.

At a meeting of the society for judicial psychology and psychiatry held in the Grand Duchy of Hesse, Dr. Waldschmidt, of Charlottenburg, gave a report on "The Treatment of the Alcoholized." He said that the craving for drink was to be looked upon and treated as a disease, and especially as a mental disease; that not all alcohol patients had the craving, and he cited examples. It would point to the logical claim that such patients should be treated in institutions under the direct supervision of nerve specialists. These special institutions ought to be established as much as public hospitals and private institutions, in order to ensure both the freest possible entrance and power of retention when necessary. A law to provide for the patient as well as the mental patient might be legally committed to an institution for special treatment, without necessitating the restraint imposed by interdiction under the existing law.

A lively debent fall.

A lively debate followed the lecture, resulting in the passage of a resolution embodying the recommendations of the speaker. A commission was appointed to take into consideration the erection of a state institution in Hesse for the special treatment of alcoholics.

#### Book Reviews

The British Journal of Inebriety, under the care of Dr. Kelynack, of 133 Harley Street, London, England, is the great central authority for scientific questions concerning the alcoholic problem. It is very suggestive and should be in the hands of every student of this subject as current literature of the most important class.

The following late books have a special interest to our readers. Legal Responsibility of the Drunkard. By H. Norman Barnett, F.R.C.S. London: Balliere, Tindall & Cox. Socialism and the Laurk Question. By Philip Snowden, M.F. London: The Independent Labor Party.

THE NATIONAL PHYSIQUE. By A. S. Dutton, M.R.C.S. London:
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Balliere, Tindall & Cox.

Moderate Drinking, its Physiology and Psychology. By Dr. L. D. Mason, an address before the Congress at Saratoga. Copies can be had from the author.

The many papers and painphlets that are appearing in the popular magnzines, weeklies, and dailies on the alcoholic question are intensely interesting psychologically. Many of them are by eminent medical ment, whose conclusions and opinions are as dogmatic and unreal as the old-time theologicans.

The moralists and reformers are of course supposed to write from impulse and sentiment, with profound reverence for the theories and opinions of the fathers, but the medical man who assumes exact and profound knowledge which only the greatest scholars of the subject would possibly attain, makes a sad exhibition of his non-expertness.

In reality the credibity and stupidity of authors who assume to judge of a subject from mere casual-observation is a psychological study of the greatest interest. The positively stated opinions of the value of alcohol and the methods of stopping the drink craze as if they were matters of minor interest show a very limited knowledge of the subject.

If these ready writers would become students and examine the facts as seen in every neighborhood, we should have new views, and escape the confusion of mystical theories.

There is in this an educational value, and the public are taught to compare the various theories and opinions, and out of it will come a scientific conception of one of the great problems of this century.

Marie Corelli's new work, called HOLY ORDERS, deals with the drink problem and brings out some very dark shadows of this evil. The characters make statements concerning the iniquities of the drink traffic that are seldom ever seen in a novel. After presenting the evils of the drink traffic in the strongest possible light, there is an undercurrent of apology and explanation and talk about adulterated and impure spirits and beer, and the possible value of linuvines.

The author is an excellent artist in describing men and characters, but the attempt to lead a great reform movement without a full knowledge of the character of the evil has many disadvantages. "Holy Orders" will lead in a new field of literature and a new presentation of topics that concern every individual.

The book belongs to the scientific literature of the day

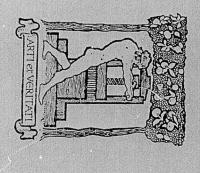
## THE JOURNAL

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# INEBRIETY

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