

There are predisposing causes. By the operation of  
another natural law, the law of the heredity of alcohol, not  
a few human beings are launched upon the world with a  
tendency to intemperance ingrained in their very nature. If such  
drink at all they drink to excess. Moderate drinking is an  
immediate drink train, arc, not infrequently burdened with no  
drinking habits of their parents, endowed with so feeble a  
will that they may truly be said to have no moral backbone.  
These, too, are predisposed to intemperance.

Besides the great predominant factor—the narcotic poison  
which produces the phenomena of drunkenness—and the  
predisposing causes, there is a considerable variety of excit-  
ing causes. A steady, regular living, excellent man leads for  
many years a sober life. A sudden nervous shock—the un-  
expected loss of property, of children, or wife—is known to  
excite him to that habitual intemperance which  
and tempests, doggedly pursues his studies when he ought  
to be at rest, all unheeding, all unthinking, till the cure of which  
brain gives way; and a very deborable and unattractive form  
of imbecility is the issue. A lady, hasty as snow and in  
general abstinent as a hermit, has at times an uncontrollable  
craving for strong drink, and she finds her only security from  
a drunken outburst to consist in seclusion in some institu-  
tion where she cannot procure intoxicating drink for a few  
days, till the exciting cause passes away. A hard-working  
clergyman frequently feels complete exhaustion in body and  
mind. An occasional glass of fermented wine dissipates for  
a brief space the feeling of prostration. His one anxiety  
being to keep up to the work to which his whole heart is  
given, he despises his physical weakness, ignores his con-  
gested liver, his disordered digestion, and his overwrought  
brain, and has recourse to his magical alcoholic pick-me-up.

THE DISEASE

N. N. I.

while there is a standard foods, to be in a state of a of the distinct s, to the various in the form of a wide range of r perfect health, the basis of ear the science of norbid feelings, he border line he selection of een foods and agnized by all ingeably in the te neither sick st look for the ugs as possess to be regarded ion the degree lard of perfect necessities, to rly, unnatural ng or lust to As the vital natural and enervated or

perverted nerve structure, they search after such substances as the chemistry of science may evolve from the fruits of the earth, that they may be composed, exhilarated, or narcotized, in accordance with the concealed cravings within.

Evenly balanced people, who are by nature calm and self-possessed, and in good bodily health, are not those who usually fall into excess. With bodies in a normal state, and fed by natural food, and minds well poised, deliberate, and disciplined by culture, thus constituting a being self-controlled and vigorous, they have no need to venture into the realm of artificial nutrients, seeking for specifics to recuperate exhausted nerves, or to supplement ordinary diet. We must look for the chief factors of the craving for drinks among the ailing and half sick, who suffer from disquietude of nerve, dyspepsia, and the various hysterical and kindred phenomena, that are now so readily recognized, even by unprofessional observers.

Thus we come naturally and logically to apprehend the remote causes of inebriety. That they are intrinsic and belong to the individual, is without doubt true. This brings us also to the real issue that is involved in the subject we are considering. It is not a legal question, the issue being revenue or no revenue. It is not simply a moral question, the issue being between the use and non-use of intoxicants. It is a question of nerves—a neurosis—the issue being between soundness and unsoundness of structure or function; between a complete and an incomplete manhood. It is disease, and in the language of the "American Association for the Cure of Inebriates," "a disease that is curable in the same sense that other diseases are, its primary cause being a constitutional susceptibility to the alcoholic impression, which may be inherited or acquired."

This disease, however, is not to be regarded as an entity that approaches and invades the human organism from without, but rather as a variation of natural function, having its source in the system itself. It may be implanted somewhere in the complex structure which constitutes the man, by hereditary taint. It may be, by some obscure and undefined

S. J. P. AND S. J. C. COOK, M. D., *Practitioners of Medicine.*

Intemperance, protracted, whilst, by their active and retrograde influences, organizing, deteriorating, and producing symptoms that indicate a departure from a healthy standard. The existence of a predisposition to physical disease and mental derangement, to say nothing of resemblances in physical and mental qualities, is a fact which is as familiar to the practical, as any other fact in the natural history of the race. It is an ordinary part of each family record, and belongs as an essential to the inheritance of every household. In its relation to the subject before us, no exception can be made. The law of heredity is inflexible, and its bethes are without compromise.

The tendency in nature being toward the maintenance of the perfect type, we may look for an endowment of new normal tissue where all the conditions are favorable, and under such circumstances as cure, or what is popularly called reformation, takes place. Around this single fact are clustered the opposing theories and statements which characterize the history of this subject. If the public mind could but hold in abeyance the doctrine that a sound physiological basis is essential to a perfectly sound and evenly balanced mental nature, there would not be the degree of divergence between the real truth and what is commonly accepted as truth in this matter. In the most common forms of alimentary disorder it is not difficult for people to observe the altered mood, to which reference has already been made.

Nothing is more common, than the irritable temper of dyspeptics, the gloomy moodiness that accompanies liver derangement, & the odd fancies and vagaries of hysteria, which so commonly represent sympathy with diseased organs. The same law is applicable to the subject in hand, and no one who has observed closely can have failed to notice the differences of character which are exhibited in the career of an inebriate, as he progresses from the careless, motiveless beginning, to the stage of cerebral disorder. If there is one prevailing symptom which is common alike to all, it is an ever present and magnified consciousness of

self. Such persons require attention, and exact it of others. They are self-important and demand a recognition of their importance by others. Their symptoms are exaggerated, and their sufferings intense, and, unless this is appreciated by others as by themselves, they are provoked, and sometimes passionate. These symptoms do not appear, however, till the boundary line is passed.

The following occurs in a late report of the Virginia State Asylum : "One of the most prolific evils of intemperance is that it so impresses the organism of some persons as to establish a hereditary tendency, which passes down to the next generation and continues long after. This temperament may continue to be transmitted until it shall permanently impress the organism, and be so prominent as to be recognized generations after."

The inebriate is full of the delusion that the wrong is not in himself, but in others and in the surroundings. He is always confident that he is the victim of others' mistakes. When he comes to an asyl um and recovers in part from the immediate effects of alcohol, the restraint becomes some liberty to go about. Hence he fills the atmosphere with complaint and dissatisfaction, which no amount of care and kindness can overcome.

The various psychological changes and symptoms seen in the inebriate are not more strange or complex than the differences recognized among persons who are called well, all of which depends on the changes and peculiarities of the mental organization.

The acute primary effects of inebriety are : Congestion from want of vaso-motor nervous control ; spasms of the brain, control ; perversions of judgment and will power, and absolute prostration of nerve power.

4. That if the jury believed from any cause other than personal injuries or the test of conduct sports the prisoner's mind was unmixed and at the time of committing the act was by reason of such cause unconscious that he was committing a crime, he is inexcusable of any offense whatever.

5. That if the jury find that the prisoner was greatly excited or affected by the use of liquors and which produced a state of mind unfavorable to deliberation and premeditation, it is not such as to render the party entirely incapable of forming a criminal purpose, he cannot be convicted of any higher crime than that of manslaughter.

6. About the law does not require that the insanity which absolves from crime should exist at any definite period, or for any particular length of time, but only that it should exist at the moment when the act charged was committed.

7. That the proof of prior insanity at any time imposes upon the star, the burden of proving the crime to have been perpetrated during a lucid interval, and that the proof of prior insanity defeats the legal presumption of sanity, and creates a legal presumption of continued lucidity which like the former must be overthrown by proof.

8. That if the jury have any doubt as to the case on the question of the sanity of the prisoner at the time of the commission of the act, he should be acquitted.

9. That if intoxicated at the time of committing the act, he is guilty of no higher crime than that of manslaughter.

10. That in order to convict of murder in the first degree, the jury must find that the accused killed the deceased with malice aforethought, and while in the possession of a sound mind, and of his reasoning faculties, and that if the jury have any doubt on this point or on any point in the case, they are bound to give the prisoner the benefit of that doubt.

The judge refused to charge the jury on the above points, but instructed them that drunkenness does not excuse a party from the consequence of a criminal act. A man committing a criminal act though intoxicated at the time, is a legal and proper subject of punishment.

## LEGAL CONSEQUENCES OF INSANITY

NEW HAVEN, CONN.

At the time when considered to be of the responsibility of such an individual, it is beyond

the condition of intox-  
ication, shown. The pris-  
oner, whom we have had  
from his various past ac-  
tions, from the time of injury,  
on the same date.

On the same date, when the defendant of alcohol  
and the quantity of liquor  
used, caused the judge to charge

that intoxication, either on  
the part of the犯人, or had  
any influence, and that if it  
had any influence, and

the accused, under such  
influence, committed the  
act, he was not responsible.

The judge, however, believed that  
the accused, in committing the act, was under  
such influence, and that he was

not responsible, and that he was unconscious that  
he was committing the act, and that he was not responsible.

That the judge, however, was not responsible, and that he was not responsible, and that he was not responsible,

and that he was not responsible, and that he was not responsible, and that he was not responsible, and that he was not responsible,

If a man has long continued habits of intoxication has brought him insanity or so impaired and enfeebled his mind as to be utterly unable, he is no longer responsible for crime.

The jury returned a verdict of guilty of murder in the first degree.

On a motion for a new trial in the court of appeals, one of the presiding judges made the following statements of the law in such cases:

"The request of the prisoner's counsel to charge the jury that intoxication was in any degree an excuse for crime, presumes a condition of mind and body in which it would be difficult to do a criminal act. The mind would be incapable of forming a criminal intent, and if it was in that condition by reason of intoxication, the physical organs would ordinarily be powerless to do harm."

"Drunkenness in no condition is ever an excuse for crime, or the *intoxication of a criminal act*. If a drunken man takes the life of another unaccompanied with circumstances of provocation or justification, the jury will be *warranted in finding the ex. stat. of malice although no express malice be found*."

Intoxication, which is in itself a crime against society, combines with the act of killing and the evil intent to take life which necessarily accompanies it, and altogether affords *sufficient grounds for inferring malice*.

"We wish to reiterate the doctrine emphatically that intoxication is no excuse for crime, in any or all circumstances."

Half a century ago such interpretations of law would have excited no comment. To-day they are simply dogmatic statements contradicted by all teachings of science, experience, and the common justice of humanity.

It is interesting to note, in this connection, a discussion on the responsibility of inebriates, in the psychological section of the Medical Congress at Amsterdam lately. A number of cases were reported of persons who had been alcoholics, and were convicted of crime committed during this state.

M. Dalby opened the discussion by saying that the old theory, that human justice is the voice of God Himself and that punishments are various forms of expiation, representing Divine vengeance, are still held and acted on by judges.

In reality, criminal law is a law of social defence, founded on necessity and utility, not on vengeance and expiation. Irresponsibility is measured only by the danger which society and individuals incur from the crime. The law dare not recognize irresponsibility. An insane person is absolutely deprived of all consciousness, or knowledge of his actions and thoughts. Modern society has departed from the spirit and text of the law, and has admired the existence of partial insanities, of which inebriety is one. As a result crime has increased, the bars of justice have failed to protect society and to improve the condition of the guilty. Irresponsibility accorded to alcoholics is a premium to alcoholism. Alcohol is the cause of more than half of the crime committed. It follows from a utilitarian point of view, that the repression due to alcoholism ought to be vigorous and exemplary.

M. Saulie protested against this doctrine as urged by M. Dalby. He insisted that partial responsibility was as clearly demonstrated as any other mental condition. That the object of medical men in trials of inebriates was to discover the mental state present at the time the crime was perpetrated. In all these cases conditions of partial or complete irresponsibility were present. It is of the greatest importance to distinguish between intoxication, drunkenness, and alcoholic insanity. In all cases which come before the courts for settlement, three experts should be called to give the judge or jury the necessary information. Individuals who daily take a small overdose of alcohol insufficient to produce intoxication are more liable to serious pathological changes, than those who from time to time indulge in great excesses, and where such persons commit crime, the evidence will often be conflicting, and give evidence of his sobriety.

The actual increase of the number of crimes cannot be

Ways to induce the expression of inebriates and increased  
their social status.

Mr. D. L. Dallas and others addressed to M. Dallas, and totally  
overruled his views as to the responsibility of inebri-  
ties and their naturalness.

The views of the limited responsibility of inebriety are  
held by all recognized authorities. Occasionally the opin-  
ion of Mr. May is expressed by physicians and judges,  
but they have no scientific endorsement, and may be said to  
be the exception in the legal ages.

The time has come for a full recognition of the condition  
of inebriety as a diseased state, in the courts before the  
question of punishment or responsibility can be determined.

Writing in my one stop to deny and dispute the disease  
theory of inebriety, when the great ocean of the unknown is  
so great that each may pursue his own discoveries without  
conflicting with the other. There is work here for all the  
time and energies of every one, and vast unknown regions,  
where enthusiastic pioneers can always be in the vanguard,  
unruffled by crowding, or the rivalry of neighbors.

Inebriety has always an early stage that is unnoticed; a  
period full of hints and indications of the coming storm; a  
stage in its march, where means and measures would most  
effectually avert and stamp out the disease. This is the  
great battle-ground of the future, where inebriety can be  
prevented and cured.

The theory that inebriety is first a vice, then a disease, is  
the same old compromise between ignorance and half science,  
which has marked the progress of every great truth in the  
world. As a sign of a better knowledge and clearer realiza-  
tion of the laws and forces which govern inebriety, it is  
cheering.

## Abstracts and Reviews

### DISCUSSION ON INEBRIETY FROM TRAUMA- TISM.

In the October number of the JOURNAL OF INEBRIETY was  
published a paper on inebriety caused by physical traumatism,  
by Dr. Crothers. This paper was read before the British  
Medical Temperance Association in London, Dr. Richardson  
presiding, and brought out an interesting discussion, of which  
the following is an abstract:

The discussion was opened by Dr. Norman Kerr, who  
said: I am very glad that we have had the opportunity of  
listening to this paper, because it contains a great deal of  
suggestive matter, and, at the same time, a great deal of  
sound philosophy and sound truth. It does seem a shock,  
all at once after our great moral and temperance reformation,  
to be told by an American physician that a great many of  
these cases we have been hammering at only on the basis  
of voluntary amelioration are a necessity from the physical  
condition of the person, but it seems to me that the thing is  
absolutely proved by our own observation of the cases of  
habitual inebriety. I personally, see cases every week in  
which the people are evidently, to my perception, as clearly  
suffering from a physical, and therefore a mental, disease, as  
any patient who has gout, rheumatism, small-pox, or fever.  
I do not mean to say that it is impossible for some to recover.  
Supernatural power may enable one to rise above the flesh,  
but I am certain that I do see cases in which, to all human  
appearance, there is no hope whatever left for reformation or  
cure from habitual inebriety unless they are put in circum-  
stances—of their own accord or by compulsion—in which for  
a time they will not be under the temptation from alcoholic

leours. Perhaps under those circumstances their system may be cured by recore, as long, their will-power become strengthened, and with proper treatment something may be done to enable them to listen with understanding to the message of the Gospel. Yet of moral reasoning at present they are incapable. Some of these cases, both amongst women and men, and particularly amongst clergymen and doctors (of whom I see a great many when in this condition) remind me of certain other cases I meet with in the practice of my profession. I set a dozen cases of scarlet fever or typhoid fever all of which respond to the advice, to the physic and to the care I give them, but in the thousand case all the doctors on earth, all the physic made, and all the nurses trained do not arrest for one moment the progress of the patient to the grave. The patient seems to be dead to all medicaments and every hygienic means used for recovery. In the sure way it seems that there are cases of habitual intemperance that humanly speaking, are dead to everything we can do. We can make no impression with either medicinal or moral restoratives. They run the gauntlet of the Salvation Army, the Blue Ribbon Army, and all the religious and social movements of the times, but these dray are in the more at last desirably that can be done. I know a case at this very moment of a clergymen—and there are very few clergymen in London who do not know of this case, because it has been before the police courts repeatedly. This clergymen has been in nearly every infirmary, hospital, subject to every kind of moral and religious teaching, and yet without a word though he is an accomplished scholar speaks both Greek and Hebrew. He is only a type of a great many others I have seen. Most of his old friends who have done so much for him, won't see him now, or have anything to do with him. Now this is the peculiar value of this paper—that it will open the eyes of the British public, and especially of the religious classes to the fact of what they secured a recent measure to have taken to cure her ignorance in the past, that there is something needed besides moral and religious meas-

ures to restore intemperates. We know that a great many intemperates are subject to moral influences, and by a strong exercise of will—perhaps looking to higher sources—are enabled to abandon their habits go on prosperously, and become good temperate doctors and respectable citizens; but I hope that the Christian public in this country which is doing so much for the reformation of the drunkard nowadays, will make that movement of theirs really effectual and permanent by taking into account that there is another aspect than their own, viz., the physical aspect and that as all the religion and all the morality in the world cannot give back to a man a leg that has been taken off or a tooth that has been extracted, so neither can we restore his brain, his nervous system, his will, and his muscles to the same condition that they were in before they were affected by the action of alcohol. In other words, no method of continual process can efface or efface the formation of alcohol upon the brain and nervous system. I am of course speaking only of certain cases which complete the other. What regard to cases of me and shock—how hard do we see? I will mention one or two that I know. A gentleman of forty-six years of age, who suddenly lost his wife from heart disease, and to whom the news was brought very unexpectedly from being a most sober man at once became a drunkard, and died in that state. I knew a medical man, thirty-six years old, who committed an error in diagnosis in a critical case, and it preyed upon his mind so much that he took to excess, we drinking till he died. I knew another man, a man connected with a most illustrious name in science. He was thirty years old and was a very bad student. He was working for a time after he had graduated, and was disappointed at not getting it. The result was that from perfect abeyance he launched into excessive drinking and within ten months committed suicide by taking laudanum acid. I treated him years ago, first from a break in his head, he was unconscious for some time and from being sick and faint became drowsy and extrava妄 and died from internal causes.

and collected a sum of money, two years of which he had to give up, and which he had to part with, as nervous fits came on him, and he became unable to get up in the morning, during his fits. He had to be carried up the stairs, and the last I heard of him was that he was an invalid drunkard. What regard to him was that?—was an habitual drunkard! With regard to such a mortal shock, how often do we find a lead to drink?—A young lady, who is now dead, at twenty-four years of age, was to have been married. Everybody—the clergyman, the bride, and so on—was in attendance except the maid of honor. She was beloved by her friends, took to drinking and Parisian ways, and so on—was in attendance except the maid of honor. A nurse on a steamship crossing the Atlantic, twenty-two years of age, a very bright girl, who had a great deal of good in her being as ever I saw, and who did a great deal of good in her steady, sober man—not even a smoker—in something carelessness but not criminal. He was discharged, and the shock at once ruined him off, as the saying so well put it, the nail that fastened him on to that of drinking, the nail of society, and shaved him off to nothing. The result being that he drank till it did of alcoholic phthisis. Another case connected with marriage. A clergyman whom I knew thirty-eight years of age, married very immaturely—that is to say, in haste. The young woman was not satisfied with her bargain, and before a week was over she left him. The result to him was that from being a total abstainer he became a very heavy drinker, and is now really a drunkard. There are a great many cases of broken-down nervous force—those, for example, of students, clergymen, and nurses—the latter especially. After nurses have been a week or ten days incessantly nursing a small-pox or typhoid fever, their mind is so full of cases of this kind, that they would bear out almost every point which Dr. Crothers has so lucidly and ably put before us. One of the

most beneficial operations of this association of ours will be to see about endeavoring to collect on the public and private libraries of the country, books which will

contribute to the education of the public, and to the prevention of drunkenness. Is it really so, that a moderate amount of cakes and the diverse methods of dealing with it do not cause the unhappy victims of those diseases among us who do not

drink? Dr. Gray said he was compelled to endorse each three present as inmates of every men and women. The clergyman was a most estimable man, the rector of a parish, and had considerable experience of habitual drunkards, and he had an excellent wife—one of those Greenwich girls, he said, who were educated of him. She died about two years ago, before which the clergyman said he never drank but socially, certainly not to excess; but since his loss he had been continually slipping. He was brought to his

home, some time since by his son, quite crazed. He had now been in his house a little more than three months, and fortunately placed himself under the habitual Drunks. And he was continually saying that he wanted to get back to his duty. He had been in such a state as to be unable to stand anything for two minutes together, and as to that he was continually saying that he wanted to get back to his work. Even now he could scarcely remember anything for five minutes together, but notwithstanding had written to his bishop's secretary to allow him on probation to resume his work. He however was totally unfit for it, although it was quite likely that in the end he would recover. The other case was that of a solicitor who married some three or four years ago. He had suffered from prostration, but on the advice of a great authority was told that he must marry. After marrying the old symptoms appeared, and as might be imagined, this was a great stock to him. It was really the cause that I'd him to excessive drinking, but he had got his brothers and his friends to believe him. He (the speaker) quite believed that this was the truth. They some-

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INEBRIETY AND THE EFFORTS TO CHECK IT.

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BY HENRY HOWARD, M. R. C. S., ENG., GOVERNMENT VISITING PHYSICIAN TO THE LONGUE POINT LUNATIC ASYLUM, PROVINCE OF QUEBEC, CANADA. AUTHOR OF THE PHILOSOPHY OF INSANITY, CRIME, AND RESPONSIBILITY.

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That great and good man, whom I am delighted to honor, His Eminence CARDINAL NEWMAN, in his grammar of assent, thus speaks, page 270: "And in like manner, as regards John and Richard, when compared with one another each is himself and nothing else, and though regarded abstractly, the two may fairly be said to have something in common, viz.: that abstract sameness which does not exist at all, yet, strictly speaking, they have nothing in common, for they have a vested interest in all that they respectively are; and, moreover, what seems to be common in the two becomes, in fact, so uncommon, so *sui simile*, in their respective individualities—the bodily frame of each is so singled out from all other bodies by its special constitution, sound or weak, by its vitality, activity, pathological history, and changes. And

good. Other beings are complete from their first existence in that line of excellence which is allotted to them; but man begins with nothing realized (to use the word), and he has to make capital for himself by the exercise of those *faculties* which are his *natural* inheritance. Each of us has the prerogative of completing his inchoate and rudimentary *nature*, and of developing his own perfection out of the *living elements* with which his *mind begin to be*. It is his gift to be the creator of his own sufficiency and to be emphatically self-made. This is the law of his being which he cannot escape; and whatever is involved in that law he is bound, or rather *is carried on*, to fulfill." Page 376, speaking of natural laws and revealed religion, he says, "Next, as to its relation to nature, as I have said, christianity is simply an *addition* to it; it does not *supersede* or *contradict* it; it *recognizes* it, and that of necessity; for how, possibly, can it prove its claim except by an appeal to what we have already? Be it ever so miraculous, it cannot dispense with nature; this would be to cut the ground from under it, for what would be the worth of evidences in favor of a revelation which denied the authority of a system of *thought*? and these methods of *reasoning*, out of which these evidences necessarily grew?" Page 367, "I have said that the laws on which this world is governed do not go so far as to prove that evil will never die out of the creation; nevertheless, they look in that direction . . . Experience enables us to ascertain the moral constitution of man, and thereby to preseege his future from his present. It teaches us first, that he is not sufficient for his own happiness, but is dependent upon the sensible objects which surround him, and from these he cannot take with him when he leaves this world; secondly, that disobedience to his sense of right is, even by itself, misery, and, that he carries that misery about him wherever he is, though no divine retribution followed upon it; and thirdly, that he cannot change his nature and his habits by wishing, but is simply *himself*, and will ever be *himself*, and what he now is, wherever he is, as long as he continues to be;—or, at least,

good. Other beings are complete from their first existence in that line of excellence which is allotted to them; but man begins with nothing realized (to use the word), and he has to make capital for himself by the exercise of those *faculties* which are his *natural* inheritance. Each of us has the prerogative of completing his inchoate and rudimentary *nature*, and of developing his own perfection out of the *living elements* with which his *mind begin to be*. It is his gift to be the creator of his own sufficiency and to be emphatically self-made. This is the law of his being which he cannot escape; and whatever is involved in that law he is bound, or rather *is carried on*, to fulfill." Page 376, speaking of natural laws and revealed religion, he says, "Next, as to its relation to nature, as I have said, christianity is simply an *addition* to it; it does not *supersede* or *contradict* it; it *recognizes* it, and that of necessity; for how, possibly, can it prove its claim except by an appeal to what we have already? Be it ever so miraculous, it cannot dispense with nature; this would be to cut the ground from under it, for what would be the worth of evidences in favor of a revelation which denied the authority of a system of *thought*? and these methods of *reasoning*, out of which these evidences necessarily grew?" Page 367, "I have said that the laws on which this world is governed do not go so far as to prove that evil will never die out of the creation; nevertheless, they look in that direction . . . Experience enables us to ascertain the moral constitution of man, and thereby to preseege his future from his present. It teaches us first, that he is not sufficient for his own happiness, but is dependent upon the sensible objects which surround him, and from these he cannot take with him when he leaves this world; secondly, that disobedience to his sense of right is, even by itself, misery, and, that he carries that misery about him wherever he is, though no divine retribution followed upon it; and thirdly, that he cannot change his nature and his habits by wishing, but is simply *himself*, and will ever be *himself*, and what he now is, wherever he is, as long as he continues to be;—or, at least,

After leaving Ireland, I went to America, where I found many other sober men, who were fighting for temperance. In Boston, Massachusetts, I met Father John Neale, who was one of the most zealous advocates for temperance in America. He was a man of great energy and enthusiasm, and his speech was full of power and conviction. He was a strong advocate for total abstinence, and he spoke with great fervor and conviction. He was a man of great energy and enthusiasm, and his speech was full of power and conviction. He was a man of great energy and enthusiasm, and his speech was full of power and conviction.

There came the absurd part of calling upon the legislatures of the different countries to prohibit the sale of all intoxicating liquors, to prohibit its importation and exportation, and its manufacture; and, lastly, the abolishing of license for the sale of any intoxicating liquor. This was going too far, was tyrannical as well as foolish, and the very best men have opposed such a course of action. All honor to the memory of those great men passed away, and honor to those great living men who still persevere, keeping the temperance question within its legitimate bounds. But with those that appeal to the legislatures for unjust powers I have no sympathy whatever; unjust, because contrary to natural laws; impossible, because in the present state of scientific knowledge no legal power in the world could prevent mankind from procuring alcohol in one form or another. Even the Catholic Church, while approving of temperance societies and using all her legitimate power in the cause of temperance, has sternly refused to declare in favor of legal prohibition. Why has the Church thus acted? Because, under no circumstances, could she oppose natural laws. As I have shown, Cardinal Newman states that revealed religion is something added to natural religion, but not opposed to it, nor does it take precedence of it.

As to abolishing the licensing system, it simply means opening the door to every unprincipled person to sell liquor without license. Our very best security, to save people from being actually poisoned with the worst sort of poison, is the licensing system. It is by this system we have the power to enforce police regulations.

Again, this prohibitory move has opened the door to the worst part of communities, political schemers, who, wanting political power for their own aggrandizement and selfish ends, hoodwink the people by the cry of a prohibitory law, that they well know they never could obtain, nor do they wish to obtain it.

Well, I repeat, for fifty years I have been a close observer of the temperance move that has, in that time, spread all dissidence. After all these means had been found to fail,

to which I wish to draw attention. That when the dipsomaniac sips at alcohol to act as a sedative upon him, after he has a bad sleep, he gradually recovers his sanity, and needs no more for the alcohol.

Now I would not be understood to say that all the alcohol taken by the dipsomaniac does not, in time, injure his nervous system, and in time render him a confirmed chronic maniac. On the contrary, I believe it does; but that he is not rendered a dipsomaniac by alcohol, but that his uncontrollable desire, heretical, for alcohol is due to his periodical attacks of mania. He is a dipsomaniac from some physical defect in his mental organization.

The inebriate, like unto the dipsomaniac, is one suffering from some physical defect in his mental organization, either hereditary or pathological. The latter may be, and no doubt very frequently is, the result of the abuse of alcohol, a disease no doubt easily acquired.

The inebriate differs from the dipsomaniac in this particular, that the latter drinks only periodically, whereas the former, if he could, would be all the time drinking. His uncontrollable desire for stimulants never ceases. The more he drinks the more he desires to drink, pursuing his course, if he lives long enough, till he becomes a miserable demented drunkard. When compared with one another, the dipsomaniac and the inebriate differ. The bodily frame of the dipsomaniac and inebriate differs in their bodies by its special qualities, and is derived from all other bodies by its special qualities. These lead to learn that inebriety and dipsomania are congenital, and that a man "cannot become an inebriate, and again the reverse of each is so easily done." The dipsomaniac and inebriate, and again his nature and his habits by wishing.

Considering how different men are constituted, there can be no reason to doubt that the *habit* of alcohol has been the chief cause of some and injuries to all. What are the specific effects of alcohol upon animal organisms? It is a narcotic, a stimulant, an antipyretic, an anaesthetic, an aniseptic, astringent, a tonic, a narcotic, and a toxic.

The dipsomaniac is not a maniac from the effects of alcohol, but when he gets an attack of mania he, in obedience to natural laws, rushes insinately for alcohol because of its sedative effects upon him. And it is a remarkable fact,

that when the dipsomaniac sips at alcohol to act as a sedative upon him, after he has a bad sleep, he gradually recovers his sanity, and needs no more for the alcohol.

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After the Cultural Revolution, the university students have become physically disabled by the physical disabilities which they have experienced in their studies. This has led to a decline in the number of university students who are able to study at the university. The university has taken steps to address this issue, including providing special facilities for disabled students and offering them additional support. However, there are still many challenges facing disabled university students, such as discrimination and lack of access to resources. Despite these challenges, the university continues to work towards creating a more inclusive environment for all students.

## PRINCIPLES OF INEBRIATE ASYLUMS.

W. VICTOR WADDELL, SUPERINTENDENT OF WASHINGTONIAN HOME, BOSTON, MASS.

After the establishment of inebriate asylums, one of the earliest results was the discovery that inebriety is a *disease* rather than a vice; and this disease began to be pathologically studied, and, as its symptoms became better understood, specific remedies were discovered and suitable medicines administered so that at the present time inebriate asylums have become institutions where the enervated and diseased individual system of the patient is treated medically, and the specific remedies are applied to restore his bodily health, while his mental and moral powers are restored by the influence of the superintendent, by intercourse with his fellow-patient, by observation of individual cases, and by such influence he is awakened to the danger he has been in and induced to total abstinence so thoroughly that the instances of relapse are comparatively few. The patient having once become convinced that in total abstinence he has only hope of a permanent cure and being taught to look back upon the inebriate asylum from which he has just been rescued, and being once more in possession of a sound mind in a sound body, there is every reason to believe in his triumphant victory over his enemy.

There is and can be no such thing as moderation in the use of alcoholic stimulants for a reformed inebriate. Temperance societies and temperance lecturers who advocate moderation in the use of alcohol do a great disservice to society by pointing out certain influential officers who take a glass of liquor occasionally, and who have never been seen racing along the street under its influence ; these men may

and the workings of the mechanism of the human frame, this knowledge, I maintain, would do much in regard to preventing the use of this poison; and in some future article I shall speak more at length on this particular subject.

At present I wish to call attention to the fact that our treatment of the inebriate is not what it should be nor in accordance with the enlightenment of the age, nor with this treatment be tolerated nor countenanced when our people are better informed in regard to this disease. I hold "and firmly believe, and I am acquainted with eminent physicians and intelligent individuals who maintain with me that it is a crime to cast the inebriate into prison with criminals. We might as well imprison persons afflicted with the small-pox or any other malady in order to remove from our sight the disgusting object or to preserve the community from contagion. All Christendom would cry out with horror against our cruelty in thus disposing of the poor sick. Hence the State provides hospitals with competent medical attendants, nurses, etc., and in most cases the sick are cured and returned to society, healthy, robust, willing and able to repay the community by taking up again their share in the work of life.

The inebriate is a diseased, a sick man, and so afflicted is he that without assistance from his fellow-men he must perish. He is incapacitated from doing anything to help himself. He yearns for help from his brother man, whose brain is not like his own, reeling in delirium or soaked in alcoholic oblivion. How cruel it appears for us to cast such a one into prison, and thereby degrade him in his own estimation and bring him to feel that he is a criminal for whom no one cares. "I wish I was dead," he groans; "I know I could get over this if any one would help me; but every one despises me. There is the murderer in the opposite cell; see the ladies bring him flowers and books and speak consolingly to him; but on me they cast eyes of contempt and are disgusted with my sad appearance." Oh, I wish I was dead.

But people may argue that the inebriate is a liar at that, a blasphemous, a contemner of God's law; well, these are all

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of object or to pre-  
its wonderful power, and how poorly they calculated their  
strength they discovered, when from impellers they became  
dipsomaniacs.

It is known that alcohol contains none of the nutritive prop-  
erties essential for the continuance or preservation of animal  
life, and good physicians have ceased to prescribe it in their  
practice. The reaction, when the alcohol stimulates has  
spent its force, is injurious, and many times so dangerous to  
the patient already weakened by sickness that the results  
have proved fatal, and even when death does not immediately  
ensue the temporary relief which it affords is followed by  
great lassitude and the system rendered so feeble that recovery  
is delayed.

The immediate effect of alcohol on the nervous system of the order  
and it would be well if our children in the schools would  
make this a part of their education. Seeing drummards re-  
lating through the streets, unconscious and unable to control  
their muscular organs, may attract the ridicule or disgust of  
sober people, but the knowledge of the effect produced by  
alcohol on the heart, head, stomach, kidneys, pelvic parts, is  
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He was sent to all sorts of places. He was a man of  
average training. He was sent to him to be under the  
care and supervision of Dr. Kerr.

Dr. Kerr said of him that the hereditary struggle for  
existence had made those mentally weaker than  
average, and that was their only source from a  
genetic point of view, that would be the birth. He  
said again that certain very important and much by  
persons in Liverpool, Thomas was most likely to deteriorate

The President Dr. Leishman said - I quite agree with  
the report that you have put up. It should interest every  
member of the medical profession whether he belongs to  
any hospital or not. The other point that occurs to me in dis-  
cussion of this question - all the facts as admit them we  
know for I am not a specialist - as just as Dr. Norman  
Kerr has done - and this shock of which the learned Doctor  
speaks is a sort of persons taking to drink - the question is  
whether those persons are all predisposed before they begin  
to drink, so that having themselves become drunkards or  
from their ancestry having communicated to them the desire  
to resort to that kind of relief. If they have been drinkers  
themselves and have been habitually attached to drink, and  
I presume a good many have been so, then it is very easy to  
understand why they fall back upon it under these emergencies. Very often in the last generations, a generation which  
we represent as men, in the boy life of that generation boys  
were taught to take an excess of drink, and they, without  
knowing it actually as a harm, became habituated to the influ-  
ence of alcohol and in the early days of their nutrition, and in their own were so possessed by the action of this  
agent, that they afterwards, though with the maturity of  
knowledge and wisdom resting upon them, still were affected  
by it and that when the cruel came, having been as it were  
over-educated and lost their mental balance, they had fallen  
back upon that to which they were accustomed. I do not  
think this is applicable merely to alcohol. I do not know

whether Dr. Davidale  
has mentioned his  
drunkards which  
have been tempera-  
temperate. I should like  
to think that they have not been  
born with a tendency by inn  
heredity, but that they have  
been influenced by  
environmental factors  
and surroundings. The op-  
portunity a man meets with  
of observance of other  
drinker and afterwards  
going in that way, I think  
man has gone through  
strongly by his friends,  
a woman persuaded in  
in one or two instances  
quite the same sort of  
Men in moments of mi-  
wards sometimes beco-  
spoken of here are case  
not has already been  
agreed with Dr. Kerr a  
real view of those com-  
motional and evolving atti-  
more likely to lead to  
world outside medicine  
(very few medical men  
require to be completed  
the treatment and cut  
that Dr. Kerr has now  
only put forward what  
are fully developed, not  
and none which the ad-  
vice does not take

but it is a man of  
the world, and under the  
influence of the fierce struggle for  
existence, is mentally weaker than  
the man who has only to live from  
day to day. He would be beaten. He  
would be annihilated at once by  
any one most likely to defeat us  
in battle. I quite agree with  
you that a man should interest every  
man in his power before he begins to  
act, and that it is to me in this  
matter that I have been led to admit them we  
have seen cases just as Dr. Norman  
describes, in which the learned Doctor  
has not failed to think—the question is  
whether they stop before they begin  
drinking, or become drunkards or  
not. I am inclined to then, the desire  
of drink. If they have been drinkers  
and habitually attached to drink, and  
have become so, then it is very easy to  
fall into it under these emergencies.  
In other generations, a generation which  
is the true life of that generation boys  
are always drunk, and they, without  
doubt, become habituated to the influence  
of the early days of their nutrition  
possessed by the action of this  
virus, though with the maturity of  
age acting upon them, still were affected  
the same way, having been as it were  
in their mental balance, they had fallen  
into the way they were accustomed. I do not  
believe to alcohol. I do not know

whether Dr. Drysdale in his large experience has observed  
these phenomena, but I should think he has. Now, whether  
these drunkards who have been treated by Dr. Crother, have  
nearly been temperate does not appear, and if themselves  
temperate I should like to know whether their fathers and  
mothers have not been so affected that they—the offspring—  
have a tendency by inheritance to this change. *If they have*  
*not this tendency, one way or another, and if it be true that a*  
*man in perfect health can by mental shock be made to take*  
*alcohol as described, matters are very serious indeed, but I do*  
*not think so.* The only way in which I can account for that  
is that a man meets with a great shock, and by mere custom  
or observance of other people becomes for the moment a  
drinker and afterwards a drunkard. I can imagine him starting  
in that way. I think I have seen an instance where a  
man has gone through a great affliction, being persuaded  
strongly by his friends to take a glass of wine. I have seen  
a woman persuaded in the same way, and I think I have seen  
in one or two instances some made drunkards, but that is not  
quite the same sort of argument put forward in this paper.  
Men in moments of mirth are made to take liquor, and afterwards  
sometimes become drunkards, but the class of cases  
spoken of here are cases of persons where the effect of alco-  
hol has already been pronounced in the body. I strongly  
agree with Dr. Kerr as to the importance of taking a phys-  
ical view of these conditions. I am quite sure that all emo-  
tional and exciting attempts at curing this disease are only  
more likely to lead to an increased condition of it. The  
world outside medicine, and largely the world inside it too  
(very few medical men are paying serious attention to it),  
require to be completely reformed in their views in regard to  
the treatment and cure of habitual drunkards. I am sure  
that Dr. Kerr has not at all exaggerated that point. He has  
only put forward what is simple truth. When these cases  
are fully developed none of the agencies which we possess,  
and none which the religious world possesses, seem to be of  
service except to take the victims absolutely and entirely out



### THE AMNESY IN INEBRIETY

In *The Amnesy in Inebriety*, New York, memory is described

as follows: "It consists of a cessation and a reproduction of the past. The first depends upon nutrition and the second upon mental and moral circulation. In the first instance where the nutrition is normal, the impressions must not only be repeated, fixed, and, finally, registered, produced, and the permanent modifications of the brain impressed on the nerves, cells, and filaments, and the associations which these

elements form, must be stable. This result depends largely on nutrition. In the second case, production depends on the general abdominal circulation of the blood in the brain also on the quality and quantity of the blood. In all other cases the form must be stable. This result depends largely on nutrition. In the second case, production depends on the general abdominal circulation of the blood in the brain and conserving processes of memory will be imperfect. This is confirmed by clinical experience in many ways. The effect of fevers, diseases of the organs directly concerned in nutrition with exhaustion, old age, and any profound disturbance of the system, is always noticed in impaired, reduced memory."

The effect of alcohol is noted in the first stage by great exaltation of memory. Both the past and the present come out in the most vivid relations. An appearance of brilliancy follows that is very deceptive because it is of uncertain duration and is only along certain narrow lines. The next stage comes on quickly and may be concealed from all general observation for a time. It begins in partial amnesia, merging rapidly into total loss of memory. The inebriate in this condition shades off all the past. In some cases progressive amnesia begins in matters of dates and figures, going on to facts and ideas extending over years, a regular progressive paralysis of this function in which one by one of all general impressions of the past

fade away forever. Constant incidents of life, who drink regularly, are subject to this affection which may last for years and not be noticed.

Frost banks may come on or part during the freezing winter. The first layer is usually composed of snow, followed by a coating of sleet, or by a layer of ice. This is followed by a layer of snow, and so on, covering the ground. These layers are called the practical tools of growing library.

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## DISEASES OF THE EYE FROM INBRIETY

Dr. Jones, Surgeon to the Royal Eye Hospital, Manchester, Eng., makes the following reference to this subject in a late lecture, published by the Sanitary Association:

Certain functional derangements are aggravated if not actually caused by alcohol. Black specks, little rounded beads, or sometimes tiny little bodies called *canaliculi volitantes*, are seen floating before the eye; these often are not due to any structural change, but they are very troublesome and annoying. Alcohol may produce them, or at any rate render them much more noticeable by its tendency to disturb digestion by its effect upon the nervous system and upon the blood supply of the eye. A chronic congestion or inflammation of the delicate lining membrane of the lid and eye, called conjunctivitis, is often produced by drink. In its normal condition it is pale, white, and clear. When inflamed the blood vessels become dilated and engorged with blood, thus giving it an injected and painful appearance. This is often noticed in free partakers of wine, the wine's injection is almost characteristic. In case it is very difficult to say what share alcohol takes in the production of this disease which is an opacity of the crystalline lens of the eye. As the disease is undoubtedly caused by deficient nutrition due to an impoverished supply of blood and a consequent loss of the watery constituents of the lens, which are found in such disease as diabetes, where the watery constituents of the blood are very deficient, so that it assumes a density, and this gives rise to an endostosis (or interchange) of the watery constituents of the lens, which consequently becomes opaque; and furthermore, as alcohol has an insatiable thirst for water and as it undoubtedly acts injuriously on the blood, it is admissible to infer that it has a decided tendency to produce such changes in the eye.

One surgeon claims that the prognosis in the cataract operations of heavy drinkers is never so satisfactory, we always stand upon them with suspicion as to the result, the wound does not heal well, there is

a tendency to low forms of infarction, and altogether such cases are tedious and troublesome at the best.

*Alcoholism.* This is a name given by ophthalmic surgeons to a disease frequently observed in the out-patient room of any eye hospital. The sufferer often an apparently healthy, able-bodied man, conditions of his sight. He says that it has been failing him for some time that he has noticed a sort of veil or haze in front of one eye that he cannot see distinctly through; everything is faint and without definition on one side. He comes for consultation, and is able to detect any structural change. Then we naturally inquire if he is a drinker, and we can find none other than he has been a habitual drinker. The patient admits that he has taken up the habit of drinking, especially on Saturday nights. What convinces me that drink is the real cause is that in a large number of cases that I have carefully observed and watched I find that where alcohol is entirely abandoned and the system is soothed by tonic treatment the sight is restored to its normal condition. The drinker ceases to use the stimulant of blood circulation and impairs the free supply of blood to the eye, and the brain is deprived of its normal layer where the images are formed. If drink is possessed of no nutritive and stimulating qualities, then it is evident that the eye, which receives its impressions from the optic nerve, which connects with the brain, becomes quite atrophied, and the case is hopeless. It has become easier to see more than one such drunkard.

One surgeon claims that there was no hope in the case of all his patients. It has been the cause of all his trouble. Such causes occur to men who are by no means helpless drunkards, but are apparently regular and working men. I find working men but a few regular and constant drunkards.

## THE EFFECTS OF ALCOHOL IN INEBRIETY OF WOMEN

According to Dr. Abbott of London, the spine of women who use alcohol is more affected than in men. In one case spinal paroxysms appear, in the other delirium. In women the excessive use of spirits is noted by severe shooting pains in the legs, always accompanied by great muscular weakness. When the usual digestive, hepatic, and uterine derangements following inebriety in women suddenly disappear, grave trouble may be anticipated. A micturition is likely to take place, from which cardiac and cerebral disorders will come on. The form of paralysis following inebriety in women is peculiar and different from other. The loss of power begins in all the limbs, in the upper extremities, particularly of the hands and wrists. The muscles are soft and flabby, and a persistent congestion and swelling of the feet and hands are noticed. Particularly noticed after walking or hanging the hands down for a time. This was due to baso-motor paralysis. Delirium tremens is rare, but hallucinations and delusions are common. Careful microscopic examination of the cord and brain, after death, failed to reveal any prominent changes. A curious fact has been noticed, that, in all these cases, the sphincters retained their power to the last, even when paralysis had invaded nearly all other sections. Another fact is equally unexplainable, that is, the absence of albumen in the urine, which is seen often up to death in most cases.

## OF

## REPORT OF THE ENGLISH INSPECTOR OF INEBRIATE ASYLUMS.

The second report of the Government Inspector, like the first, is a sad comment on the want of knowledge of both the nature and character of the subject. It is impossible for any one, no matter what his attainments are, to form any correct conclusions of the value of inebriate asylums as organized under the English habitual drunkards act, the operation of which is limited to months, and only three or four asylums. The law is recognized and acknowledged to be exceedingly impractical and obstructive in its practical workings, and yet the Inspector assures that it is perfect; that the subject is well understood by the managers of asylums, and himself in particular; that the experience of a few months and the confinement of some cases for a few weeks, furnishes evidence that is conclusive.

In this country, men who have been practically engaged for years treating these cases are very greatly in their opinions and prognosis. The report of the Inspector is startlingly clear and emphatic on questions that can be by no means understood in the present state of the subject. His comments on the usefulness or failure of this or that means are entitled to no consideration, because unfounded on experience of study. It is deplorable that the subject should be held in check by foolish dogmatism in a land of truly great scientific men, where the truth can be so easily ascertained.

A series of papers on the Power of Alcohol over the Nature of Man, as displayed by the modifications of mind, morals, and the physical constitution incident to its use, by Dr. T. L. Wright, of Beloit, Wisconsin, are being published in the *Detroit Limit*. In many respects they are the most suggestive and original discussions which have appeared on this subject. The range of study is wider, and the phenomena of inebriety is seen higher up and from the latest researches of science.

*Burr's Medical Combination Index*, noticed in our advertising pages, is of almost indispensable value, for making handy notes and references, thus grouping them as to be available for use in the future.

*The Physiology of Drunkenness*, by Dr. Carpenter, published by the National Temperance Society, New York City, will take equal rank with many other valuable publications of this Society.

## THE PHILOSOPHY OF INSANITY, CRIME, AND RESPONSIBILITY

Under this title a well-known specialist, Dr. H. Howard of Montreal, Canada, presents a very suggestive discussion of many of the obscure phases of this subject. The first part of the book is devoted to the nature and character of insanity, and the last to the medical jurisprudence of crime and insanity, also criminal responsibility. The book is largely a compilation of recent discussions of this subject, with the author's views, many of which are entitled to much consideration, as coming from a long life experience.

The value of this monogram to the student of inebriety is more than the sum of its parts, which in themselves, on the part of the author, are excellent. The student of inebriety and changing responsibility seen in inebriety. Also, the collected evidence, which is翔uted in cases, proves the physical origin of conditions which are at present ascribed to moral causes. The book will well repay a careful study, and we urge our readers to procure it. The leading article of this number of the Journal, by the same author, will indicate the importance and value of his book in our special studies.

The more we know of the various forms of insanity, and the classification from external causes and psychological symptoms, the more numerous the particular insanities, the moral and intellectual insanities; the more clearly the disease of inebriety appears. No matter how obscure its physical causation can always be traced in the different physiological and psychological symptoms. When the physical organization is healthy and normal all action and thought are sane and reasonable; but when pathological and anatomical changes take place, then impulses and actions are abnormal and disordered. The inebriate is diseased and controlled by the diseased organism, and recovery can only come from restoration of these disordered nerve and cell activities.

## RIDICULOUS

## EXERCISE IN THE TREATMENT OF INEBRIETY

The inebriate has always an unbalance of organism. The equilibrium is broken up and the natural force of nature is diverted. The driving element of the body cannot be obtained because digestion is defective. The utilization of energy through the glands and muscles is stopped, and excess of one or the other is always present. This excess of force over others stretches the extreme limits in the far-excessive activity of the inebriate.

In health the body is a machine whose source and energy are constantly stored and liberated. If the organs of the organism are perfect both the brain and muscles are active in this their food supply and the utilization of energy. If the expenditure of energy is great the brain and nerve activity goes beyond a certain limit, the storing forces are impaired, and if too much is added muscular inactivity, both the mind and quality of the brain action will degenerate.

If muscular expenditure is carried beyond a healthy range, the same impairment of gland force and organ activity follows. The brain workers who neglect the body, and the muscle workers who neglect the brain, all suffer, and the power force fails to supply the demand. Thus muscular and brain exercise are absolutely essential in the great force liberating apparatus. This activity not only aids in preparing the food apparatus for the building up process of the body, but is an important factor in the emanation of waste material. In inebriety this brain and muscle energy is always at its maximum and minimum intensity. Muscular agitation or inactivity, intense brain and nervous repudiation, marked by

delirium and delusions are always present. The strong force from the food is lessened and certain other channels appear through which these forces are directed. As in one case, the excess of alcohol is followed by mental or muscular excitement.

All thought and nervous activity is unbalanced; a period of intense excitement is followed by a state of insensibility. The brain may become insensible from the start, and the muscles be fatigued, or the order may be reversed. In both cases, general paralysis and excessive drowsiness always provoke the desire for spirits to lose the effect of this loss of energy. In the treatment after the withdrawal of alcohol, the restoration of this lost energy is the object to be obtained. In the ideal state of perfect health the exercise of the brain and muscles, and the elaboration of the food must be chemically and biochemically exact. The resultant and hence expenditure in the restoring process must be exact, and also the elaboration of food and the elimination of the waste material. The practical problem is to find the conditions and degree of exercise most favorable to this end. Each case must be determined from the facts of its history.

Careful long experience seem to have a general application. Thus the emotional excitement following revulsions and efforts to will and pledge themselves, or cover, is in most cases a source of still further exhaustion and departure from health. On the other hand the want of exercise and depression from confinement in walls, and general bad surroundings is equally injurious. The inebriate who complains of dullness and seeks a change of mental and physical surroundings, is in many cases obeying a physiological impulse that is literally an effort of nature towards recovery. Often it is the same impulse which is manifested in muscular nervousness and seeks relief in long walks and much exercise. Inebriates who come from centers of great moral activity and consequent severe punishment from their social surroundings require more muscular exercise in the treatment. Muscic workers who are inebriates need more brain exercise in the treatment. Where inebriety springs from both conditions of exhaustion,

a wise combination of general exercise is essential. Exercise, well-chosen and often of a force appropriate to the condition, will aid in recovery. The brain, which is more debilitated than the body, has more power to restore and more scope for the surrounding environment to do good. More exertion of treatment. Inebriety from gouty workers is always marked by organic degenerations of the heart, liver, and other organs. The degree of exertion is a remedy, most varying in each case, and where they are combined requires skill in the adaptation of the needs of each case. Exercise is a physiological necessity as much as food is a requirement of the body. The times of taking exercise, and its degree and excitement from religious appeals or intellectual amusement are often indicated in many cases. Non-universal rule of labor on the farm, or in workshops, or of walking or exercise in the vicinity of continuous emotional exercise.

The managers of the JOURNAL OF INEBRIETY are always pleased to receive papers and letters for publication or personal consideration. But we expect that persons who disagree with us will assume that we are not fitted with prejudice against the truth from any other source, or dishonest in our recognition of it. The articles published in this journal are chosen fully acquainted with the subject of which they write, and represent the experience and conclusions of the authors, without regard to any impression they make on the reader. The aim of this journal is not to build up any theory or dogma that is not founded on the writer's experience. Under all circumstances we are willing to accept the truth whenever it is established on good evidence, no matter what the consequences may be.

We want facts, not theories or moral speculations.

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## DIVISIONS OF INEBRIETY

The classification of inebriety must be made on an etiological basis at present. This must of course be of the most decided nature, as all our studies are very imperfect and hasty, lacking in distinctness. The facts, real and apparent, are numerous and cover a wide field, making it almost impossible to reduce them to order and discover their true meaning. Some general division like the following, will be found of value:

1. Inebriety direct as inebriety from inebriate ancestors one or two generations back.
2. Hereditary indirect as coming from insane, consumptive, epileptic, and otherwise defective nervous organized ancestors.
3. Physical Traumatism from injuries direct and indirect, or diseases without ailments are followed by inebriety directly traceable to these events.
4. Traumatism of a psychological nature, such as mental shocks of all kinds, perturbations, and intense agitations of the nervous system, which are quickly followed by inebriety.
5. Excessive strain and drain of both physical and nervous systems.
6. Anaesthesia and neuraesthesia in all forms and conditions. These are only the outlines of vast unexplored fields, that must be traced and examined before the true generalizations will be found. In the natural evolution of every complex science there comes a time when the great central truths stand out clear and distinct. These may serve as landmarks from which to date other and more minute observations. The disease of inebriety is one of these great facts. From this point the field of etiology, pathology, and treatment will widen and present such a complex mass of facts that only further on can we expect them to be reduced to order and rightly marshaled. This is the work of the next century, when the whole subject of mental science shall have advanced beyond the present shadows of superstition and infancy.

## —WASHINGTON INEBRIATE ASYLUM

The Secretary of the Board of Trustees of this asylum, Col. D. D. Cone, has furnished the following facts, which indicate that this institution has made the right start, and will be in active operation in an early fall. In 1876 by a special act of Congress this institution was incorporated to be called the Washington City Inebriate Asylum. The act provided that all persons who subscribed ten dollars should be deemed stockholders, and the affairs of the Asylum should be managed by twenty-five trustees chosen from the stockholders, also that all funds and property owned by the incorporation should not exceed a half a million of dollars, and that said property should be applied for no other purpose except for the care, medical treatment, and control of inebriates. The act specified that way commitments of patients should be made which is practically the same as of the inmates. In section ninth inebriates who are to be committed are described as persons who by the use of intoxicating liquors or other intoxicants, have lost self control or become incapable of proper attention to the care and management of their affairs, or habitually or periodically neglectful thereof or dangerous to themselves or others shall be regarded as inebriates or habitual drunkards. The Board of Officers are as follows: John C. Harkness, President; D. P. Hall, Vice-President; D. D. Cone, Secretary; W. W. Lowry, Treasurer; and Joseph T. Howard, M. D. Superintending Physician. The organization of the board followed soon after the passage of the act and has been enthusiastically maintained up to the present. A number of benevolent gentlemen have long ago signified their readiness to aid in the work, if an appropriation could be obtained from Congress, to give permanence to the work. The commissioners of the District and others have recommended an appropriation from Congress repeatedly, but while the claims for this object have been favorably received, and met with no opposition, so far they have been laid over for the future. The

restraining movement of the State of New York, to closing up the asylums, greatly unsettled the public mind, and caused the value of such as Jum's and caused the Committee of Congress to hesitate about making appropriation for the present. A better acquaintance with the subject and its necessities will make clear the practical value of such asylums for the treatment of inebriates above the currents of popular opinion. The government have always shown great liberality in encouraging and helping all benevolent institutions in the District, and it is confidently expected that a large appropriation will be made for an inebriate asylum at an early day. The need and value of such an asylum has been truthfully portrayed in Washington letters to the *Hartford Times*, and in other correspondence from that city. The Board of Officers have perfected their plans of building and location, and only await help from Congress to begin at once. They are confident that a well-managed asylum at this point will have a national importance and value that will be felt far into the future. A renewed effort will be made in the coming session which will bring a large local endorsement, and will be no doubt successful. We assure our friends that this work is one of the great necessities of the age, which will be recognized and acted upon practically sooner or later.

The new book by Dr. Parrish, entitled *Alcoholism, Inebriety, and a Medical Simplified*, is published by P. Blakiston, Son & Co., Philadelphia. The following is the table of contents:

1. Who are inebriates?
2. The Vice Aspect of Inebriety.
3. The Crime Aspect of Inebriety.
4. Inebriety a Disease.
5. The Heredity of Inebriety.
6. Insanity and Inebriety.
7. How to Deal with Inebriates.
8. Asylums and Reformatories.
9. The Psychology of Inebriety.
10. The Conclusion.

The medical experts, whose studies and observations have impressed him more with a knowledge which he has acquired than what remains to be learned, is not a safe guide on the subject of inebriety.

#### SPECIAL REMEDIES OF VALUE IN INEBRIETY

Our object is to call attention to some of the remedies that are being used in the treatment of inebriety, and furnish their general value from the experience of to-day. We would not have the reader infer that these are the only therapeutic agents of use in the treatment of inebriety, or that we call attention to them simply as advertized in this journal. Most of these remedies have been tested clinically from samples sent direct from the manufacturer, and while we have not yet completed the clinical observations of these drugs, enough has been ascertained to fully sustain the following endorsement:

*Catapillar, Datura, Hemlock, Hemlock Extract, used in prepared by Prof. Davis & Co of Detroit, either used in combination or separately, have often a marked action as a narcotic, tonic and sedative. These can not be given as a tonic in cases of great debility and so soon it seems of greater value than quinine. The dose needed is in some instances 2 very pleasant aromatic and is always worth a trial. The *United Physicians* of H. Crook, New York, have in our *Farmacy* where nutritive disturbances are present, in such cases of debility, may be placed in the same list as*

*Digitalis*. *Hemlock* may be used in all the cases of chronic inebriety where conditions of profound nervousness are associated with his disease. *Hemlock* should be used in every case of inebriety, and as a general tonic and nerve sedative it seems unequalled but should be given in small doses after the alcohol is withdrawn. *Aconite* *Syrup* by T. Bush & Co. of New York, is a remedy about which much difference of opinion exists. From a limited observation it is evidently a medicine of some value, and has been used with success to combat the peculiar exhaustion from opium and alcohol inebriety. The value of *Bromide* prepared by Battle & Co. of St. Louis is so well attested that it needs no comment.

The Horsford Acid Phosphate, the Hypophosphites of Fellows, and the Vitalized Phosphates of Crosby have each a personal value in all cases of inclemency, but we need further study to determine their use minutely. The other remedies have been found essential, and should always be included in the means used to treat inclemency.

### GERMAN ASSOCIATION FOR THE CURE OF INEBRIATES.

In the October number of this Journal we mentioned that steps had been taken in Germany for the organization of a scientific society for the study of inebriety. Through the kindness of Dr. Pieper of Moyland, Prussia, we are able to give some particulars of this effort.

In October, 1882, an informal meeting was held at Frankfort on the Rhine to discuss the best plan of a permanent organization, the object of which should be to promote a thorough study of inebriety, and the means for its prevention and cure. A religious society which had been in existence some time, called the Society for the Suppression of Alcoholic Drinks, united with this movement, and a general good feeling prevailed. A large number of eminent medical men were present, and agreed to issue a circular to the public for a more general endorsement at a later meeting.

The following is the substance of the appeal, which was sent to every physician and all the leading men of the country:

"We address ourselves to the German public of all classes, in full confidence that the time has come to look upon the injuries from excess of drink and inebriety from the stand point of science—to organize a society by which this subject can be studied and be better known."

"The desire for drink, which seems to be constantly increasing, is making serious inroads into the vigor and mortality of our people. Everywhere it is clearly apparent that the excess of drink is filling our hospitals, alms houses, and

unsane asylums, and all other institutions of every character, also the suffering and profligate, such as leading that other career causes combined. Therefore we call to the better classes, and those who have influence, to enter and sustain some measures of the kind for the cure. We insist upon a study of the matter from a more than individualized point of view, and the best measures for the early control of the evil. Efforts in this direction have been made in Sweden, Holland, England, France, and America, and of course there is much to be done, not only here, but throughout the world. We appeal to our countrymen, our neighbors, our friends, and all in the organization, that we may be considered in the relations of the public, and that we may exceed the one object of the organization, which is merely to help him. We ask for the co-operation of all, and units of organization interested, and interested, to support us in our efforts. We will do what we can, and we hope that you will do the same. It will be a result of our labor, and we assume that we are assured of our great triumph. We therefore call public meetings, on Saturday, February 1st, in 1883, for districts, permanent organizations, and associations, and unions. This address is intended for the use of such persons as have the power of influence, and we trust that it will be well received. Secular societies, religious societies, asylums, and government officials, and others, who have it in their power, to do so, are invited to have it on their tables, and to pay attention to its publication. The results of this movement will be watched with interest, and we trust that you will be gratified with the progress of our cause.

"This address is intended for the use of such persons as have it in their power, to do so, are invited to have it on their tables, and to pay attention to its publication. The results of this movement will be watched with interest, and we trust that you will be gratified with the progress of our cause." Our Society was organized January 25, 1883, and last reorganized in the Seaboard States. The first session will begin at 8 P.M., April 25, 1883. A large attendance is expected.

The fourteenth annual meeting of the American Association for the Cure of Inebriates will be held in the Hotel of the Inebriate Home, Fort Hamilton, N.Y., April 25, 1883. The first session will begin at 8 P.M., and a large attendance is expected.

## Child Notes and Comments

### SYMPOTOMS OF INHUMANEITY

Some children of depraved parents inherit immediately from their parents diseases of the nervous system, epilepsy, chronic central nervous system disease, or insanity. They are subjects of interest from the standpoint of the pathology of the brain, from the cradle to the grave. They suffer and are burdens to their friends. On the community as long as they live. As a rule such persons are vicious. They develop prematurely and show considerable individual quickness. They often possess great ingenuity, writing and inventing for all who come into contact with them. They are tasteless in dress. From the first they are almost brilliant in conversation and bearing. They sometimes display frankness and candor, but all who come into contact with them. They are tasteless in dress. From the first they are almost brilliant in conversation and bearing. They are untrustful, suspicious as to the intentions of others. They are employed to accomplish dishonest plans, mischievous in their property rights of others, and lacking in appreciation of abstract right and justice. At puberty they often develop unpleasant characteristics. They usually display at this time a lack of mental equilibrium and frequently lose the fruits of many which in childhood proved attractive. They are wayward, jealous, suspicious, perverse, and often shock their parents and interested friends by acts of apparently wanton cruelty towards weaker children or wards and as adults. She is inclined to females they become hysterical and nervous, and often sink into a condition of inertism which continues, sooner or later, to affect in us some men. Males, at a corresponding age, become restless, reckless, dissipated, and vicious. Many of both sexes develop insanity at adolescence without adequate exciting cause and

remain insane for life. It would seem as if the original potential energy of the brain and nervous system had become exhausted during the comparatively brief period of childhood and youth. Stimulated to unnatural activity by a highly excitable nervous system they develop precociously and wear out prematurely. If the early environment of such persons has been favorable or the morbid tendencies derived from one parent have been neutralized by those inherited from the other, they may go through life without bringing down upon themselves any severe strain. But however favorable the inheritance may be, there is always the chance of life's old age—these and many other exciting causes are sufficient to destroy normal health. Whenever mental disease is thus developed the ability of the individual to recover is much diminished. As a rule such persons do not recover from attack of mental disease or at best make but a slow recovery. In many instances the first attack of mental disease is thus developed from an inheritance of similar hereditary traits. They are liable to recurrence of similar attacks upon slight exciting causes and eventually become insane. In many instances the first attack of insanity is induced from an inheritance of ancestral renderings of it necessary to give an unfavorable opinion as to the possibility of complete recovery from an attack of insanity which under other circumstances would have been curable.

For V

The marked instability which characterizes the nervous system of the children of mediates is shown by the facility with which the transformation of normal conditions into abnormal states occurs. They are frightened after a slight derangement of diet, or of the circulation, and easily develop fits of complete recovery from an attack of insanity, which depends largely upon a good state of nutrition. It is lessened, and they fall whenever any mental or physical strain comes upon them. The children of mediates parents are notably liable from this cause to accustom themselves to stimulants and resort to alcoholics, opium, chloral, or tobacco to spur their flagging energies to action.

In some instances an inebriate heredity develops in one child, and for a fourth as insanity.

In those unfortunate cases where the brain and nervous system of the parent was poisoned by alcohol when their existence began, conditions of actual disease are always present. In some instances the brain and nervous system are endowed with an excessive degree of excitability, which gives rise to convulsive seizures or to chronic chorea. Here the reaction of the nervous system to external stimulation is excessive and perpetual disease and disorder results. In other cases the growth of the brain has been arrested prior to birth, and the mind does not develop at all, or it develops very imperfectly. This is ascribed by some to the direct effect of alcohol to increase the growth of the connective tissue of the brain which is developed at the expense of the gray matter, and thus encroaches upon the thought-producing portion of the brain structure.

The greater proportion of females inheriting this predisposition is due to the fact that daughters are much more liable to inherit the mental and physical characteristics and defects of their fathers, while sons inherit similarly from their mothers; and for obvious reasons fathers are much more liable than mothers to transmit the degenerations and diseased tendencies which originate in alcoholic indulgence. In females, too, the tendency is to the development of a more active form of insanity or inebriety; and the probabilities of recovery are correspondingly better. In males there is a relatively greater tendency to the development of degenerative forms of disease. This is probably due to the fact that when mental and physical characteristics are derived by males from the father, the mental equilibrium and physical vigor are not as uniformly maintained as when these characteristics are derived from the mother, and hence the probability of a degenerative brain change is increased if the father is an inebriate. The same is also true of females where a neurosis is derived from an inebriate mother whose characteristics they inherit.—*Dr. Hard, in The Physician and Surgeon.*

## INEBRIETY CAUSING CIRRHOSIS OF THE LIVER.

In the excessive use of alcohol the liver is the first organ to suffer, because the alcohol reaches it immediately after its absorption in a comparatively unaltered state, and diluted only by the secretions of the stomach. Acting as an irritant, if long continued, it soon excites an overgrowth of the connective tissue along the ramifications of the portal vein. The first product is a round-celled embryonic tissue, by the pressure of which the bulk of the liver is actually increased; but organizing into fibrillated connective tissue, it has the property of all such newly-formed tissue—it contracts and compresses the proper parenchyma of the organ—that is the cells—and destroys them. When the circles formed by the smaller branches of the portal vein are involved, the areas included in them are compressed and forced to rise upward, forming gran-like elevations, whence the term granular liver. When the branches of medium size are involved, larger areas of liver substance are compressed, and elevations, of which many correspond in size to the hob-nail, are produced, and these results are the so-called hob-nail liver, and when still larger branches of the portal vein are involved we have even larger bulging areas, and a lobulated appearance results—*Dr. Tyson, in Medical Times.*

## DIPSOMANIA.

According to Prof. Ball of Paris, the dipsomaniac is never an habitual drunkard. He always has free intervals of sobriety, and intelligent consciousness of himself and surroundings. This state is most frequently inherited, and yet it comes from many distinct causes. Often it is preceded by states of melancholy, suicidal impulses, eccentricity, and great irritability of thought and action. Sometimes morbid fears, depressions, and delusions are the forerunners of this form of insanity. Many curious phases appear during the parox-

sym. In one case the effect of alcohol is most pleasing, or most unpleasant but he has no control over it. He may drink openly and associate with the lowest company, or be very sensitive and hide himself away among strangers. Any thing is used that has spirits, no matter what it may be. Dipsomania has been noticed in the author's experience among women, as the direct result of excessive menstruation, over-excitement, sunstroke, excesses, and great physical exertions. Esquiral confounded these cases with dementia paralytica, which often they may be mistaken for. In our observation the dipsomaniac is begins in this way. In our observation the dipsomaniac is more positively insane during the period of his drink impulse, than in any other form of mental aberration.

#### HEREDITY.

Mania or delusion pronounced in one ancestor, and the other subject to nervous disease, will appear in the descendant in all forms of intellectual degenerations, from weakness of mind to idiocy. Convulsive disease of the brain or nerves in one ancestor, and the other of weak or feeble will power, will develop ineptitude, melancholy, and other disorders with prominent psychical trouble in the descendants.

Inebriety in one ancestor, and nerve disease in the other, is followed by epilepsy and various phases of convulsive diseases in the ancestor. A person whose ancestors have suffered from any form of insanity or epilepsy will have a change of disease from the abuse of alcohol. Varied forms of delirium and aberrations will follow. Complex psychical and physical disturbances will appear; moral insanities and perversions which are always obscure are seen. In all these cases associated with inebriety, there are certain fixed laws dimly seen at present, which seem to determine the form and nature of the disorder. A further study will enable us to predict from certain conditions results which will follow as positively as day follows night.

#### FACTS OF ALCOHOL.

The least toxic of all alcohols is ethyl alcohol, from vinous fermentation; the most toxic is the amyl alcohol (spiritus—fusil oil). The toxic phenomena of these alcohols may be divided into three periods: A period of ebriety or of excitation, a period of resolution; and a period of collapse. These periods undergo modifications depending on the dose administered, and nature of the alcohol employed by fermentation. In alcohols obtained by fermentation the resistance of the subject to intoxication succeed each other in regular order, but in proportion as you depart from the ethyl series their character is more accentuated. Their evolution more rapid, and certain convulsive phenomena appear. With methyl alcohol (wood spirit) the period of excitement is more intense, resolution collapses, and the toxic symptoms which follow more rapid in their action, and when the dose is not sufficient to kill the phenomena disappear more promptly. Alcohol from glycerine causes a rapid increase of temperature. When ethyl alcohol was given regularly for a long time, prolonged somnolence without any excitement followed. When absinthe was added great irritability and excitement followed.—*Hannaford.*

#### DISEASE OF INEBRIETY.

There are certain persons who seem impelled to drink, as others are impelled to murder or suicide. The impulse is so strong that they are rendered entirely unfit to take care of themselves or their affairs. If left to themselves they would drink continuously till they reach delirium tremens or alcoholic paralysis. Closely studied, we find them to be people who, from congenital or acquired weakness of mind, are unable to exercise any self-control, and are practically of unsound mind. They may have suffered from burns on the head previous attacks of mania, or they may have hereditary inheritance in manic neurosis. They probably desire to

place themselves under control and will voluntarily enter an asylum if it be possible. Here the drinking is most frequently the result of insanity which is however aggravated by the perpetual alcoholization.—*Dr Bradford's Lectures on Insanity.*

#### ACUTE DISEASES FOLLOWING INEBRIETY.

In a clinical lecture delivered at the Philadelphia Hospital by Dr. Pepper, reported in the *Medical Times*, are the following remarks: The case was that of an inebriate admitted for pleurisy, and failure of the heart, with delirium followed by death. He says: "Inebriates are exposed to great dangers from the supervention of any acute disease, or the occurrence of any injury or accident. A man who has healthy habits, and is accustomed to live moderately, will bear the most serious accidents and violent acute diseases, react against them, and throw them off; but a man who has saturated himself with alcohol, whose nervous system has lost all pioneer reactionary tone, and whose tissues are degenerated by the alcohol in the blood, no sooner gets an acute disease or receives an injury, than there is great danger of his succumbing to it."

The kidneys of an inebriate are always over taxed, so that the least additional strain will often cause a failure of function. The blood is not depurated, and other secondary results come on. Delirium occurs frequently, and probably has its roots in the nervous system which is in a state of habitual irritation and exhaustion. This is true of the motor, emotional, and mental functions. Any disease or injury coming on such a one is apt to lead to irregular nervous action and agitatum.

The condition of the kidneys gives a hint of the way in which delirium comes on. Often it is of a traumatic character, from defective kidney action, defective depuration of the blood and retention of poisonous matter in that fluid. This is followed by delirium of an atoxic character. Hence we have two forms of delirium seen in inebriates; one from

inflammation and exhaustion of the nerve centers, another from deranged poisonous matter in the blood. The two cannot be large except be governed by the diagnosis of this condition:

Fatty degeneration and failure of the heart's action often

sends serious complications in the case. Often the fibre of the heart has undergone degeneration and when a strain comes, failure and a state of paroxysms with convulsions, follows. The secondary trouble from engorgement of the lungs brings additional labor of the heart, and gesticulation of the lungs brings more exhaustion, and failure of all the native energies. Inebriate will be found two forms of delirium tremens which should be recognized in practice. In one, symptoms of violent nervous excitement, with the preservation of a good deal of muscular strength, occurring acutely in a man of comatant health, who has been using stimulants freely. It comes on after a violent attack where the man has been drinking to excess, and taking little food, and where he stops all use of spirits suddenly. In the second form, the man has become exhausted from over stimulation, and has become exhausted to the brain from the inflamed mucous membranes. The liver and kidneys are disordered, and all their functions are perverted, and a condition of profound debility is present. In this form of delirium the mind is filled with delusions and hallucinations of the most distressing character, attended with muscular trembling, which lasts a long time. In the treatment the doctor advises isolation of the patient in surroundings where rest, quiet, good food, and constant care can be given. He would give the usual sedatives, such as chloral, bromides, and occasionally alcohol. He thinks phocarpin and jaborandi valuable in many cases, and would add morphia to lessen the profound irritation.

Practical experience fails to sustain the doctor's views of alcohol in these cases. The London hospital, where a large number of the worst forms of delirium tremens are constantly treated, does not use any form of spirits, and the results are more favorable than elsewhere.

## THE TREATMENT OF OPIUM INEBRIETY.

The characteristics of those cases included bromide of sodium baths, hyoscyamus—both galvanic and faradic currents, aromatic strichnines, Atropa, quinine, chloral, coca, camphor, Iunard, iodo-wood, varied tonics, full feeding, and other medical surroundings.

To note these in detail requires some preliminary reference to the morbid condition they are intended to relieve. The somnambulistic or opium abandonment, in our opinion, relates to an exalted activity of the spinal cord manifested in increased reflex irritability. To this are attributable the aches, pains, vomiting, purging, collapse and horrible discomfort, in general, which follow entire and abrupt withdrawal of a long continued opiate. If this be correct, it is also correct to assert that any drug able to control this over-action must have power for good in treatment. Such we have in the bromides. Their power to subdue reflex irritation is known to all, and in no disorder is this more happily proven than in the one to which we refer.

A special and original application of this power is what we term preliminary sedation, which consists in the giving of the bromide for a time prior to entire opiate withdrawal—meanwhile gradually reducing the accustomed narcotic—so that at the time of maximum spinal irritation we have mainly bromide sedation and the one counteracts and controls the other.

We use, extensively, bromide of sodium. It has two leading advantages. Saving a bromide of lithium, it contains the largest proportion of bromine, which is the active factor, and it is less unpleasant than any other, never, in our experience, causing gastric trouble. Minor points in its favor are, lessened tendency to digestive and muscular impairment, and cutaneous irritation.

We use it in full dose—60 grains, increased to 120 or 130—in eight ounces of water, twice, daily, at twelve-hour intervals, and continue it from five to ten days, or even longer

—average time one week—the extent of its giving, both amount and duration, depending entirely on the peculiarities of each case, before and during treatment.

Hot baths, 110 to 112°, are the most efficient agent at command to relieve and remove the peculiar restlessness which is an invariable sequel of opiate abandonment. They are given often as re-irrigated ten to twenty minutes duration. Their efficacy is sometimes enhanced by a short douche or shower. Electricity is used as a tonic and sedative. The galvanic current we often employ at the outset and, after abandonment, find it useful as a general restorative and remover of local pains. For the muscular debility following withdrawal, nothing, in our experience, equals general faradization—ten to twenty minute sittings daily. The sense of exhilarating comfort resulting is often very decided. Occasionally it is used twice, daily, and, very exceptionally, it is not at all acceptable.

Atropia is used in initial doses of  $\frac{1}{3}$  gr., hypodermically—or its equivalent by the mouth—and pushed until it produces systemic effects—dry throat and disturbed vision. This has never required a dose exceeding  $4^{\text{th}}$  of a grain. Strychnia is given in subcutaneous doses of  $\frac{1}{36}$  of a gr., thrice daily, and continued, in some form, throughout treatment.

Hyoscyamia, in our experience, has proven itself the nearest approach to morphia of any alkaloid yet presented. We use Merck's *morphosis*, in the dose of  $\frac{1}{6}$  gr. hypodermically, and have known it, repeatedly, to produce steady sleep of several hours' duration. Gradual decrease has its advocates, and sometimes its disadvantages. It is the plan pursued by the charlatans, who find in the peculiar, secretive character of this disorder a fertile field. It is a mistake to assert, as does Howe, that "tapering off will not effect a cure." It often succeeds, but, oftener fails, unless under close and constant professional observation. Its great disadvantage is, that prolonged decrease tries the patience to such an extent that it is sooner or later abandoned, patient lacking both time and inclination for its continuance.—*Dr. Mattox, in Proceedings.*

**HEREDITY IN CRIME AND INEBRIETY**

The following instance has come to light at Taunton, Mass., in a trial for burglary where one of the criminals turned State's evidence, whose ancestral history runs as follows:

Two hundred years ago or more, a noted pirate abandoned the sea, and settled in the neighborhood of Boston. A numerous progeny came after him, all more or less criminal and drunken. In the third generation from the pirate, there were sixteen inebriates in the direct line twenty-six members, in the fourth generation against law six members were punished for various offences. In the fifth generation came the notorious Malbone Briggs, who at one time and order, mostly for theft and forgery was in State Prison, with seven of his sons, for various offenses. The sixth and seventh generations furnished a scattering crowd of criminals and inebriates, whose records are found in every penal institution in the State. The last representative, who turned State's evidence, seemed to have no consciousness of right or wrong, or moral responsibility, although possessed of considerable genius.

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These publications have been made for the benefit of our patients, and we have employed many of them, and educated them for their own benefit, as well as ours. We shall do our best to the interest of the home.

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## THE REMEDIAL TREATMENT OF INEBRIATES.

\* BY NORMAN KERR, M.D., F.L.S.

Scarcely a week passes during which I do not receive, either from a clergymen, a Christian worker or some broken-hearted relative of the victim, a request of this kind:—"A. B. is drinking himself to death. His wife and family are neglected, and he is dissipating his fortune in drink. Pray send me a prescription for some medicine, as I feel sure you can, to give him a distaste for his destroyer." I quote the frequent, pitiful, and despairing cry, simply in proof of the utter and widespread ignorance, even among educated and intelligent Christian people, of the true nature of habitual drunkenness.

Drunkenness, occasional and habitual, is the inevitable outcome of our national habit of drinking intoxicating liquors. Their leading component—that for which we drink these beverages, the alcohol they contain—is a prompt and potent irritant narcotic poison. It is in virtue of an immutable natural law that the general use of so powerful a narcotic poison, which irritates the vital organs, destroys the mental balance, and inflames the passions, induces all the varied phenomena of intoxication in a certain number of the drinkers. It is not more certain that in a given number of lives in an insurance office some tolerably known proportion will die every year, than that in a given number of persons drinking our intoxicating liquors, some proportion will annually drink themselves into drunkenness, disease, and premature death.

\* Honorary Secretary to the Habitual Drunkards' Legislation Society, and to the Darien Home for Inebriates; Foreign Corresponding Secretary, and Honorary Member of, the American Association for the Cure of Inebriates.

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\* Honorary Securi-  
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They have seen a few other such cases—though their numbers are apparently so physically small, they are capable of alcohol that they are unable to arrest the natural development of the characteristic poisonings effect of alcohol on the brain and the will. Their only power of control is over the very delicate, or the transmission unit is so strongly implicated in their trial that they are unable to arrest the natural development of the characteristic poisonings effect of alcohol on the brain and the will. Their only power of control is over the very delicate, or the transmission unit is so strongly implicated in their trial that they are unable to arrest the natural development of the characteristic poisonings effect of alcohol on the brain and the will. Their only power of control is over the very delicate, or the transmission unit is so strongly implicated in their trial that they are unable to arrest the natural development of the characteristic poisonings effect of alcohol on the brain and the will. Their only power of control is over the very delicate, or the transmission unit is so strongly implicated in their trial that they are unable to arrest the natural development of the characteristic poisonings effect of alcohol on the brain and the will.