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were a final or two confines strangers to each other and He shall at the outset, we are seet with the inquiry, "what is ascendy to be leastende a leder statement which served as the melekan wali sebasa a te se prevencen dali dace. We Means (Classian Association of New York Case, They had 新 经销售的证据 计图片记录记录器 医自己的 医过滤 医唇瓣部 desest is hereses a priveried unitant, producing intolness, or sould do excise as a mid-somewhat and tenio. In largon being series, and spinor assonic and prossic acid etc. in have note of all rates a collect. What was the sound thereof? for answer but product its action upon the THE PERSON OF TH The Cartes of News make to above to the following many the second many when the alling the The Live Dr. William

auswords ad matrice - bedriety can be swedested repart section question confes. Can a be cared? "To being solded that discusse is the offering of its ow-

especially for heavons that shall presently appear. One more reliant terms supplied on probably which are now so carefully resources, it is there in its power, and demand protection impart selected traditional thus enlighten the public mind hast patemeter of the association, had ask you to rependentia general least in remarking in privatible the steady aim of this body to liquidad as trivijado ungagagad. Da Packatas the very the state are restricted the destructive than cholera

easily as my salustical character of the jud and its effects upon Educate Enlergy is in extraence a more plana, concise, and 我不敢我不知以我不知道 人物教徒 不敢的

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the severage it was seen abunded that there were sight hald them. The coppe of these essays is as remarkable at Price a new Levil fact, that will have any previous confor s are usually specially on the paskets of their authors, ready slight is the spentinents holvedness of these who in applied to the sound of probably to be be defeated

relations to Social and Publical Economy, and The Moral and ington Home of Boston, Kestgalatas a Remeily for Inchriety cloudion. The 187 eachy of Introperance. The Disabilities The Relation of the Church to Institutes, Asylums in their included in makes of a sanitarium. The History of the Waste a Individue dicine a payer written and forwarded by the Social Transport of Inchaintes. The enthological trafficance of alcohol, and the nature of is-

which the association was constructed. scape of the discussion, and the breadth of the foundation on to the point of wearings, but I have said enough to show the I might continue with entracts from these valuable papers

to the press and the community. nimity, were arranged in the form of a Declaration, and given The principles which were agreed upon with entire una-

generous support. an exponent of the principles and methods of the association undertaking "The Journal of Inebriety," which is reliable as devotion to the cause gave a fresh impulse to the whole by after your till the advent of the Crothers, whose energy and were liberally supplied and the same course pursued year ously circulated. Public libraries, and authors and public mon were published in a panyblot of eighty-four pages, and gratuit and is conducted with an ability so decraed as to command a In addition to this method, s.oco copies of the proceedings

ual interest. Dr. Donald Dalrymple, M.P., England, visits America's institution. We have now reached a period in our history of unus-

to secure proper legislation on the subject was made by the tion of the alluming increase of intemperatice, and an effort Our mother country had been aroused to a fresh considera-

home or account of illness in his family, but left a communiasylane and homes for inclinates in the United States, he the House of Commons that will meet early in the session to England and give their evidence before the committee of those who are conversant with these institutions should come of at least two of the most competent and best informed of Washing: "Lustle, I have this request to make, which I as to discipline and results of treatment. The also added the care in addressed to our association asking certain questions but before his mission was creately falfilled he was called thoroughly as to the effect of legislation, and the working of came to this commerciant wished several of our institutions chalman of the courbillor, and in order to inform himself tesire to arge with my atmost power, viz.; that a delegation enoder the best plan for the control and management of associational the House of Commons "to The Depth Catronic M. C. was

Samesas from Hease of Commons Committee and appoint ment of Pringates.

mittee, the following $g \hbar \dot{m} \dot{x}$ communication from the commit tee was also denvered In addition to this request of the chairman of the com-

* House of Commons, London

March 2, 1872.

attend upon them during the week commencing the 15th of committee would be glad if you could make it convenient to dance before them for the purpose of giving evidence. The control and management of habitual drunkards,' and of which mittee are Tuesdays and Fridays. as convenient to yourself. committee Dr. Dalrymple is chairman, to request your atten-House of Commons appointed: to consider the best plan for the "Sik. -- I am directed by the select committee of the Should this be inconvenient, on as early a date after The days of meeting of the com-

(Signed) "ARTHUR F. KINGSCOTE, " Committee Clerk."

> once was introduct and an interference with bidish legislasaid that the delegates were unauthorize hard that undir pass I am particular to quote these in full legan est has been

association appointed the late Dr. Dodge and myself to rejecwhich was endodied in the committee's report to the Hoose a complete store graphic report of car testimony was published. sent them before the Committee of Commons, and is now a part of their official record. In compliance with this double invitation or request, the The visit was made and

Letter from Dr. Norman Kork Lendon

and the legislation of Great Britain. physician in London, and the acknowledged leader of British me within a few days from Dr. Norman Kerr, an emineral It shows the effect of the testimony upon the public mind thought and practice in this department of professional work. I now call your attention to a communication received by

inebriety at so early a date, having, after a brief trial of moral and later in Portland, Maine, on temperance. "But (be says) took any part in this country in associated effort at legislaassociation had been actively working for six years before I disease. I was quietly working by mysell. You and your means only, being driven to treat inchriates as subjects of though thus engaged in the study, cure, and prevention of study and cure of inebriety should be credited with whatever campaign on behalf of the inchriate that I was attracted to entirely owing to your association's persistent and splendid tion for the therapeutic care of the inchriate. Indeed it was a few of the obligations, which the general measurement in Figdeep obligations to you and your society. Let me recall, now little I have been privileged to do in this important and pressthis special agitation. So that the American society for the for the treatment of the inebriate was broached in 1852, in the land owes to your American propaganda. Though legislation Dr. Kerr had lectured thirty-seven years ago in Scotland So much in acknowledgment of my own

Members of the Houses of Lords and Commons, with eminent representatives of the learned professions, have been among the auditory at our meetings. These 'proceedings' have also been circulated, and had influence in legal circles."

") Just early 'proceedings' were read with interest on this sale of the Atlantic, but a still more marked and deeper interest was evoked among us by the advent, in 1887, of the 'Quarterly Journal of Inchriety,' your society's organ."...

Buttenight Home Openal.

In 1873 the "Dulrymple Home" at Rickmansworth was opened, under an act entitled the "Habitual Drunkards Bill," introduced by Dr. Cameron, M.P., which was finally enacted in 1870. Dr. Kerr in alluding to this subject says: "Under Dr. Cameron's act, among other licensed retreats the Dairymple Home was opened by a disinterested associa-

at Ninetworth Annual Meeting.

tion is an experiment conducted in the light of public criticism on such conditions as were believed to be most favorable to our, among these conditions being ample grounds for exercise, and a paid medical officer who could devote his whole time and exention to the treatment of the patients, unfulluenced by considerations of pecuniary profit or loss. The experiment has been more successful than the most sanguine of its promoters haped for almost one-half of the 152 patients discharged having remained firm."

Under this head it is sufficient to say that the government Inspector, whose duty it is to visit all such retreats, reports favorably of their conduct and progress, and recommends further and more favorable legislation.

Dr. Parrish visits Dalrymple Home

While on a recent visit to England, it was my privilege to spend a week at the Dalrymple Home, and by the courtesy of its medical head. Dr. Branthwaite, I had unrestricted liberty to examine at all times all parts of the premises, and to converse freely with the inmates; and if my testimony may be of any service. I am free to say, after a week's residence, with such privileges as I have mentioned, I left the institution with a firm belief that it was a model of its kind, and that I knew no place in any country where the unfortunate victims of alcoholism had better treatment, or were more likely to recover than at the Dalrymple Home of Rickmansworth, England.

Jurispendence.

You will be pleased to know that in the line of jurisprudence we have not been idle.

Dr. Crothers and I have on several occasions addressed medico-legal and jurisprudence societies on the questions of criminality and responsibility of inebulates, which have been occasions for able discussions by eminent junists and physicians. Our papers have not only been published with the official transactions of these several so lettes but copies of reprints have been furnished for gratuitous distribution. For

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M. N. o. to W. t. Margal Mississ

is company (the discounter to be a gagetop case viral to the good case of Americas Emographence in the IX-15-7-5-8 special department we are inclosed to the week or not Charles of Allah 1811 II pot New York office at which he is for accomplished editor

Part Brown of the South State See

ombibal Law alde to farash a most remakable jadicid Sone hinning and an section in the system by the sections. transment or to a costable Leviens we could say. Amon which we in this country it has take not not ready. That approper which sports to be by and the law of safety and for Lord Young committed the homogreeous to a hospital for the himiness of the Keet then whose abnest exhaustless A like interest has been awakened in Grout Bertain, and

owing to her interviewing cubiculary in delivium neurons would be allow the case to go to the jury decigning that that acoust a medical of child sunder by neglect and succeive debroom fremers, was insuricy involving no tesponolidity." "Let Young of Glespor, list August, on a charge could not hold excessive drinking to be a cross and

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in the ference as the beginning of a successful campaign, the CHANCEL OF PREMIUM agreedy can chiler to do for the termented by apperite, and the the curbit when the notions thereof shall life up their stand extract which can easie be measured by the boundaries of science and policitary shall accomplish all that human Study of Inchricty in them Unitary, which will be referred to Lest made transis tracey which make hime of 1887 an era was imagurated by the Society for the

obey a verbor Stranger The windy was pad for Lothing and The 1987 the Interpretated Congress, equalitied by the So-American delegation from your society, with several papers and interest in compains their nearly every enimies. The 1887, in allerting to which important event Dr. Kenr says: I take to the assembling of an International Congress in

> ment of our existing torperfect begold along and our criminal For more all these concerns gray slight of prospective improve Apparature of the property of some and apparature of the property and the second of th agitudian as the miranal propelling lares." law administration, we have majudy to thank the American Contail Baltania 1.65 and pullidays at the Cangress

practice, but the impalse has been left on almost every shore ripples till not oak on far as Britain's coast have they of his work, in which be quotes liberally from the Association and Nervous Diseases in the Faiversity of Charkoff, Russland) letter from Prof. Paul. Kuwalewsky (Professor of Psychietry of greening, and ask for information and encouragement. A Switzerland and other nations - Italy and Russia and words Conventions and congresses have been held in France and public sentiment in 187% has been wirkstrag the circle of its and the writings of its nambers. writings on the subject. He is an author and sends capies addressed to me expresses great interest, and solicits on The link politic that was care into the storage of

argurated a movement based on the same declaration of thlings that years ago Dr. McArther, of Melboarne, had inand crosses the main to our peerless land, bringing the good Whether this he so, yea or may. Australia's voice is lifted up. visible cradle and is held in site by its strong rocky ribs "that there have been many delightful cases of researd lives." refers to discouragements and disapphentments, but says also five, filled with the aptoragate victims of excess. His report Lodge," and commencing with two rooms, he has now twentyof Rascarat, had started a home which he calls "Hope principles, and that since then, in 1886, a Rev. W. L. Morton, So the work gues on, even in the islands of the seas. It is said of Australia, that she sits majestically in an in

Temperance Congress to 10 the

cially and directly identified with the scientific aspeced this subject, may be stated thus . An item of news of some interest, although not spe-

At About Carries and the control of water and the world Arrest. They are also were presented in which were by Carries been been delicated which were by Carries been pleasured in the problem of the problem and the problem of the problem of the problem. The morphism was to be a committee been of the public, and was able additional tries for many of the trained by Sies of which was able additional tries for the problem with a second pleasured by self-indicated problem as their many of the trained who being an and by self-indicate and the problem as their factors, and the problem problem as their factors. The chief and problem problem as their factors, and the problem of problems and the government, which is specificated the problems as their factors.

to some meable regions, where ignorance photois, and the prince to many yet juppered to adapt scientific views. It goed the against which the subject which techs to inquiry as a when of good which should be encouraged. Such agains a third his of our complete alphabets.

Committee of I want when I Proposed

Lan now at a golfat what it is loaded profer to pass witheat notice, but lifeton, denands quitightat sher general may be complete.

All clong during the past years the temperative cause had been considered and diseased circuly from the standpoint of religion and morally. The jet pic were accussioned to looking at it in this way, its leaders and public advocates seemed weblink that they alone coupled the light and were messers of the situation but the time had now come for a new element to be extroduced among them. The amouncement of the action of Principles came upon them suddenly: It was a susprise of principles came upon them sudarticles from the appropriate contraction in the superise came and the contraction as and even futterness that was quite inconsistent with the spirit of so good a chase.

How they had see ling country to analyze the principles worthe tree were so ready to critical had they been really

The state of the s

potents, with an eating neglect of around or religious abbithe medical treatment of viscored vanishors viction plik and They weak there hered that prients found to institutions weekly have correspond that you'll a statement their off opens. ligher more as fairbille as neeligh incar su seel. Livery who probabilities is treated as a disease, encylor, reseal and as of which is to depress and demornized and to cultivate every passes to just under the All habits and de-sex the tendency tion, to reliabile a loce for things that are posed and make for ha then endenters to strengthen the entre mount consider necessity, flesh of the distancement from the administrational while pay hit has wine had with the inviter on remignizes the virtue, such thus develop and resource the macheal that has been bruised and bridge A page of wax accorded without the shipter of married than The they desired to know the tree's in the east, they

For any structural or functional disorder of the body, therapeutic remedies are in place.

Die L. D. Mercells Resolution on Medicines.

As to the use of medicines I shall quote the remarks of Vice-President Dr. L. D. Mason, made at the second meeting of our association in 1871.

He said: "He had no disposition to criticise any well meant efforts to do good to the inciriate by any method, but he held in his hand the report for the last year of the institution where medical treatment was not considered necessary, and he found that the average number of patients in that institution was less tean one-half the average another treated

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realization and the mediscont worse hillings, White other reserve have of the labor information that had anticipated our LINE A MATERIAL TOTAL A LITTLE FOR THAT INDICATES A MATERIAL TOTAL AND A STATE OF THE STATE OF as true. I processed a copy of the Plantic wallons delay arrival in England and which the class been in the billy apport and the second payers so by the property of the payers and the company of two triends, one of whom I see in this Was "button bulling," and manufers of Parliagness to accept passed since it was placed in the mands of the printer of rad a be did not remember about he but a few house fad manner, that when asked if he had watern like at to be before and the suppressive heat of the weather hards of heachibed his and a c. wated upon the solicar. Sixthess in his foully espression come, facts, the nature of which we had no conwere beginning to thomble for expressions and when the 11011 regain to recive, and the run that he was the author of the took from my pocket a sopy of the I You're and negligible caption of were disclosed, such for example as the following orth le was admitted. This was a moment of interse agree hier to react his article about Art which manage his incuriory When the secret order of which the Foodlesse was subhere mention as to the shinderous expressions that good people of England of the same order were warned house it on appointment and strong meonepetency. The sent this land, (by whom and to whom was not told reliving delegers had been accomplished a letter was strugations pased to be the organ was littormed that the appointment of than and colleague, the late Dr. Dodge, having a residence company of the manage. agains as and told not to believe our testingous. My worthy on an advance on a with the statelieum that believed A reaction was approaching. Truths that were laters streme north boundary of New York State escaped

THE WAY SHOW SHOW IN

that the brethren of the order at home might be forther with in to mation to justify such an extraordinal sprotecting, we Not allowed the examplification and to England Dut

The second of th

If I had the genues and the pencil of an arrist. I should like to point a particle for every holge room of that so not once it may be not once it had been at the some it had is then holde. Then holge and Charty. It would be a plan planta the other. Then holde had a range garry stabilities in the revoal with amount and conferent garry stabilities the revoal with amount and a suit beking with anxious experimental track he hills in the doubly haze which hegy constituting it is the should with bowers scattering the beauty of perfume I had life to every passenter.

the covere sole would show the same figures, but thought in Rule! woulding, "Hope!" leving cast her spear within her feet, less the enemy int "Clarity's! fewers best fold and bloody tears man upon her feet. Unversions saw of the particular in golden letters, would be may riped! "Partic 16 year and Charity."

H. Lee . Late Home of these Historia

No valid, notice was taken of these diagrapeful proceedings at the fine of their paragraphs, because the attention of the commence, because the attention of the commence of a glatify to been through one advanta that the appearance of a presonal commencers, while our clief paragraphs while our clief paragraphs a was to the our principles that had been declared

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The A De Stephen Allow Complete

It will be pertinent now to note the fact of centlement from landam disting this country too the purgue of obtaining information contenting the ostobishment and continued for inchring the ostobishment and continued and matter to reduce was Dr. Student Miori, of London, a writer on Dipsonnatic, and the promises I believe, of the "Swiets for pharochag legislation for the control and cure of habitual drambards." He sister the following the obstacles with which we had a content that considering the obstacles with which we had a content the work in America was a triumbard success.

At home he was interested in establishing widthe wells; in time of the streets of Landon, so that the working to pitting in an and the streets of Landon, so that the working to pitting be a more healthy herence than that furnished by the beer shops and whisky burs. On Alford that with a sorbots decident which cost him his life. It was my pleasure to the larger him as my crest thuring his say in this vicinity, and his genie spirit, positive conventions, and poissiver advecacy of the right, convenced me that he was an able with whose association to the cause in England mast be deployed by ally association.

That of D. F. C. Business, Landon

Another visitor was John Charles Buckniff, M.D. F. R. S., late Lord Chancellor and Visitor of Landaces. His visit, I think, was an unfortunate one. It was bade incloss. Blis relation to the subject of insamity at home naturally induced thin to seek the companiouship whitsting ushed allons is in ting country. As he came avowedly to infinite thirds dresh graing include asylimis, he could not inaversion on mechanisms be easily not insert and there of professional men whose information on mechanisms whose information on mechanisms and more misleading than the superintendents of hospitals and

VOL XUIT

and furness of these gentlemen, their public arrown of opposition to include asylates and homes their heavilies opposition to include asylates and homes their heavilies to the medical men desceipe of such institutions may have contributed to antit them for debherating candidly and deciding body. It deed at a neeting of these suprilatendents, held at Aubarn, New York, in 1875, Dr. Bucknill being present and participating in the meanssion, it was

Absolved. That any system of treatment of incivitates on the voluntary principle "mush, in most edses, prove entirely futile, if not worse than useless."

For the first time in my reading I have discovered this new system of montal philosophy which teaches that it is better to force men to do right, than to have them change from had to good of their own volition.

They also resolved that every State and Province should make provision to "secure a careful inquisition into the question of drankenness, and fitness for restrain," and "length of restrain," as will render total abstinctice from alcoholic or other hurrial stimulants during such treatment absolutely cortain," and provided that such institutions are organized and supported the same as a sustitutions for the insane are. If they must be "organized and supported" like institutions for the insane, what will be the distinguishing feature by which the difference can be recognized?

Dr. Buchwill's Ruch.

After Dr. Backnill's return to Hagiand he published a little back which is interesting in some respects, but as it is mainly controversial I am not disposed to notice it here, further than to correct one statement which refers especially to myself. He reports the Sanifarium at Media as a State institution, and having failed in the purpose for which it was established.

The great commonwealth of Pennsylvania does not inauguence institutions of that kind or any other, and allow them to fail. The one at Media was not a State institution, and

never had any State prittonage (as I was repeatedly informed by members of the legislature), because of the large deminds of the instancusylams which, being in existence, must be sustained.

The institution at Media was temporarily closed, but the same work under the same management is going on at Burlington. New Jersey, with continued and even increasing success.

Dr. Camerni's Speech in Parliament.

when he came back he wrote several papers, the object of gentleman" (Dr. Bucknill) "visited America in 1875, and parliamentary speech favoring legislation. He says, "That by Dr. Cameron, Member of Padiament in England, in a as out of patience with the mandlin sentiment which has showed that he was intensely prejudiced upon the subject which was to deprecate any special legislation for the a nuisunce to the world. Lie expressed his regret that alcohol on his behalf. Well, Dr. Bucknill goes on to say that the been written about the habitual drunkard. I do not think for February, 1877, for example, he expresses himself In an article on the subject in the Contouporary Review habitual drunkards. of that pest. He congratulates france upon the invention was not the deadly poison that the honorable baronet, the worthier bands, and that he should kill himself, and cease to be he should rain himself, so that his property should pass into best thing that can happen to the habitual drunkard is that that I can be accused of indulging in any mandlin sentiment of absinthe and America upon the vileness of its whisky, cause if it were it would sooner enable the world to be free Member for Carlisle (Sir W. Lawson) represents it to be, bequicker than our milder English drib'ss." which enables them to get rid of their drunkards so much the So much for Dr. Bucknill, except what is said of him Luckily the style of his writings

TITE Dr. B. South some ognous

I know that I may say in the name and on behalf of this association that it Dr. Bucknill will favor this country with

exist a Alt, we shall be delicable limited so. I shall take exist at Alt, we shall be verbely, and pass him on to Dr. Blandard of Post Handan, and Dr. Mason of Brooklyn; from there to Dr. Crahers of Hamford, and Dry of Poston. From there he can start on a four of the West, and he will see Hughes of St. Louis, and Wright of Bellefontaine. Ohio.

If he will do this, after his return to Bhgland he may write another little book in which he will strongly advocate what he opposed in the one first mentioned.

The Madiant Profession Vindhated.

I desire now to call attention to an error which we constantly hear repeated and it possible to correct it. It is that modical men are accountable for much of the drunkenness existing among us, and that they create the desire by administering alcoholics to the sick. The charge is gravely made that as a class they are opposed to the temperance movement. I have before me a little pamphlet from which I shall read It is a "Catochism on Alcohol with responsive exercises on temperance, by Julia Coloman." This primer is published in New York, by the "National Temperance Society and Publication House."

It is intended to be taught to children, that when they grow up they may be firm temperance men and women, What does it teach? The teacher had been giving a lesson that drunkards were at first fascinated by alcoholic potations, and in answer to the question, By what other means are the people persuaded that a little is good, the reply tells them. The doctors say that a little is good, and they order it for medicine. She then proceeds to state that by this means the terrible appearite is formed, and drunkards are made, and the doctors have taught the common use of distilled spirits, and that the people did not drink till the doctors taught them; that the people learn to take them themselves; and that the doctors call them good, and order them so much that the people learn to take them themselves; and that the doctors in this way are probably the greatest of all hindrances to the temperance cause; that so long as the doctors sky a

But is good, and the people do not study into the matter for themselves, they will believe that of \$i good, and drink and make drinkards as they have done in the past.

The little primer then proceeds to teach the children that the doctors must find some other way of treating their patients, and to bring this about is for the children to refuse to take about or relicities.

A Scientific Experiment that is not Scientific

But there is still an equally absurd presentation of what is assumed to be a scientific experiment. The question is asked, What happens when food is put into a bottle with alcohol? The answer is that "the alcohol prevents decay;" and when taken in the stomach indigestion is engendered, food is hindered from being appropriated, and "it creates sores there," etc. For a moment let us contrast a bottle with the human stomach. The latter has a temperature of its own; it has a wonderful vital chemistry of its own; it has juices and secretions peculiar to itself. How absurd to teach that food taken into the stomach and food put into a bottle undergo a similar process? To make the analogy complete the bottle should have seres.

Again, the children are taught in Miss Coleman's little catechism that "more than half the insane people in this country are made so through drink."

It is difficult to comprehend how such discreet and honorable men as are found in the official board of the National Temperance Society can allow such utterances to appear under their names and with their sanction. It is to be hoped that future publications of this influential society will be more in accordance with truth and the dignity of the subject.

Fact: that are Truths.

But let us look at the facts as they are. It is not difficult to get an opinion of the medical projession upon any subject on which an expression is desired, because of the completeness and cooperation of their organization. Each county in

alternately in the capitals or other cities of different nations Mier this comes the International Medical Congress, meeting every county society in every State may send delegates. blage known as the American Medical Association, to which represented in a State society, as well as in a national assemmost of the States has a medical society which is annually

communication, an expression of opinion upon any subject It may be seen how readily, by this continuous chain of

National Medical Congress, 1876

of about six hundred delegates of different nationalities. these Introductional Medical Congresses, which was composed In the year 1876 there was held in Philadelphia one of

of its opinions as to the status of alcohol as an alleged food tinguished body, requesting it to make a public declaration or medicine, etc. Temperance Union," each addressed a memorial to that dis-Christian Temperance Union," and "The New York Friends "The National Temperance Society," "The Women's

ordered to be transmitted to the memorialists in reply to their question. reported for acceptance to the general congress, and by it sentiments of the section on medicine. As such they were of the paper presented were unanimously adopted as the for ability and earnestness, the conclusions which the author tion on medicine, before which a valuable paper was read by New Jersey, covering the question proposed by the memorial Dr. Ezra M. Hunt, now secretary of the Board of Health of The memorials were referred by the congress to the sec-Aiter a full and free discussion that was remarkable

profession. Physicians are not accountable for its use by the tions, but its administration should be confined to the medical is yet unsettled. liquors are not as pure as medicines should be hairs, nor for the colls resulting from such use. men the world over the question of the food value of alcohol To condense these answers, in the opinion of medical As a medicine it is useful in some condi-Alcoholic

their advice the evil is continued. that doctors have taught people to become drunkards, and by to the careless and unqualified assumption of the catechism, by physicians from nearly all nations, it is a sufficient rebuke go further than this, but as an average quinon concurred in There is no doubt that some physicians are prepared to

and the choice of his countrymen for the presidency of the Chicago, the originator of the American Medical Association, nence physician on this doctor question, Dr. F. S. Davis of 1887. He is quoted as saying that there are thousands of late International Medical Congress, held at Washington in ciety, of several hundred members, convenes annually, closerage, and he reports that in Illinois the State Medical Sophysicians who abstain from the use of intoxicants as a bevmay be said of other State and county societies. intoxicants are excluded. I have no doubt that the same ing their professional labors with a banquet, from which all Let me refer to the opinion of an eminent total absti-

British Medical Temperance Society.

students as associates, over five hundred members. another for the north of Ireland, with its headquarters at Belbranch with headquarters in Dublin, another in Sembuid in 1876, with its headquarters in London; there is an Trish exclusively of medical men, which was organized, I believe, fast, and another in Wales, numbering, with a few medical In Great Britain there is a Temperance Society, composed

tec-total doctors at a meeting held in Dublin in 1887 china teapots stationed in rows about six feet apart along the Nothing was served as a beverage stronger than English middle of the tables. breakfast tea, which was poured from the well-known black I had the honor of breakfasting with about the se hundred

of some, the drink of the soher Britan is trai, also of teertotal doctors, who might if they would, or could, sing the old Scotch song: . If beer is the drink of many, and the stronger alcoholics

A Commence of the first the second

Use the email of Survey from sheld for courtested, the glood as substitute and heat. In places of correction disking post.

Connections and by Ly.

As choice of the the builders raste - -

Prime cup of teat

In Temperature's traine, then, my advice is, Let all for teascups blange their glasses;

Nor langer, like to Cadgor's asses,

In drain-shop buy,

When such pure, real, domestic bliss is

In correct too.

No Piedge for Ductors.

Physicians are not required to sign a pledge on entering the society. It assumes that no gentleman would offer to join whose principles and practice are not in accord with those of the society.

without one. The cause suffers great loss, so I believe, by above signing a piedge, and you will not allow them to enter such a policy. they outside? The answer is, because they have scruples are many more outside of temperance societies than inside that among true, real, and practical temperance men there recognition. Not so with us. We seem to have forgotten their total abstinence principles and conduct entitles them to are total abstainers, but not pledged as such, but the fact of influence, are found in the field and are doing good, -- they social life, titled men, whose names and positions command Church and government dignitaries, men who stand high in of the cause and advocates of it who are not pledged, -a token of membership. In lingland there are many friends of the many societies or orders that require pledge-taking as question who has not taken the pledge, and joined some one country a person is not considered sound on the temperance people there and here in the matter of the pledge. In this At least that is my observation. This brings me to remark upon the difference between the And you may ask, why are

Antonian Carrier

The American conscience is right upon the subject. It approves of subriety and good order. It looks upon temperate living, and in all that remperate living includes and invulentes, with approval. The moral sense of the American people rejoices over every effort to promote right living and establish justice.

In obedience to these claims upon personal and individual character, there are thousands of good, honest, working men outside of societies, clubs, leagues, or orders of any kind, who are doing a silent unrecognized service, the only record of which is in the book that angels keep.

Dr. Moson's Reward of One Hundred Dellars.

I notice now what is being done by one of our vice-presidents, the worthy son of a father of whom I cannot think without a feeling akin to reverence. Our vice-president, Dr. L. D. Mason, has given an example of the zeal and enterprise of the younger members of our association, by issuing a circular through the *Frankal* and other medical periodicals, addressed *To Medical Microscopists* offering one hundred dollars for the best essay on "The Pathological Lesions of Chronic Alcoholism, capable of Microscopic Demonstration." Distinguished microscopists of New York and Brooklyn will act as a committee to decide upon the award

This opens another avenue for research. The reach of the microscopic world is far beyond the ken of the human eye. It is indeed outside the realm of human thought, unless aided by the magnifying lens to discover, and interpreted by the science of life itself to understand. All praise to Dr. Mason for this new departure leading to new discoveries.

What Remains to be Done,

In the open field before us there are a few duties, that are plain to see and not difficult to periorm. In the name of the Association, the Congress of the United States should be reminded of the solemn fact that no suitable provision is made Vol. XII.—18

for the include class of the armyond may. Asylums for the instale are declared to be improper resorts for such by the superintendents of said institutions, and the moral sense of the people declares against commitment to prison cells.

The Bureau of Education at Washington, the State superintendents of public schools, and the presidents of colleges should be addressed in the same behavior, and the governors of each State and Territory requested to consider the propriety of calling the attention of the legislatures of the respective States and Territories to the consideration of the subject. We cannot tell how much of such seed-sowing may take root, and bring forth fault, but remembering the rapid, almost phenomenal, growth during the past twenty years of the disease dogma, we need not stop to inquire. What will the harvest be?" Our work is sowing: the respect come after us.

and called to the menutains that are around it, and they longer respond. Yes! we may hear them as we have heard a customed to hear at the annual roll-call, but which no syment, and try and listen for certain voices we have been but, think ye, are they not going on still? Do not words of distance, and we hear them no more. We call this Silenay dency, till in the laintest marmurs, they are wafted into the through the valleys, rising and falling with ever varying cahow they would rap to their summits, and sweep along and uttered were thrown against the mountain sides, and then have answered back. our own voices when we have sailed on the bosom of a lake much live? Before bringing this address to a close let us pause a Is not truth itself immortal? Tennyson says: We remember how the words we

"Our echoes roll, from soul to soul, And grew forever and forever."

Is this true! If so, the words of Parker, of the Elder Mason, of Dodge, of Willet, and others are still on their mission. The words we after, if they are true and wise, have started on their errand, and will drop fathess, to nourish those who come after.

THE STUDY OF INEBRIETY AND ITS RELA-TION TO THE TEMPERANCE MOVEMENT.

BY NORMAN KARRA M.D., F.L.S.*

President of Sweets for the Study of Individual texaster the

outstanding, bold vindication of abstinence; there has been uplifted on behalf of sobriety; there has been some clear, every age of the world's history there has been some voice feature which has characterized none of its predecessors. story of the human race, there have even flourished com some glowing eulogy of temperate living. At times, in the cant beverages, a striking protest against habits of excessive munities bound by strict vows of abstention from all intoxitestimony for temperance has been colluted and collected, mation. We have the happiness to live in an age when the been a thoroughly organized and equipped temperance refornobled the life of human kind. . . . tions of the great movement, than which no nobler or more ner, when there has been laid, broad and deep, the foundadrunkenness have been marshaled under one common banwhen the legitimate forces engaged in the warfare against beneficent undertaking has ever touched the heart and en-The first half of this century can claim a distinguishing But never till the nineteenth century has there

Splendid as these achievements have been, they fall far short of the necessities of the case. While some phases of our prevailing intemperance have improved, others have become worse. Take one instance: intoxication has decidedly diminished in the male sex, but drinking by females has markedly increased. The latter phenomenon, though emphasized by the committee of the house of lords, has been

^{*}An address delivered before the National Temperance Congress at Birningham, England, in November, 1880.

The control of the co

now and infenders. In 1858, the females were 5.673, and the females were 5.673, and

The new question that meets as is: Why do not all who does not acting figuous differ continue "limited" drinkers or ligible to excess? Parting aside for a moment the composition area character of the interfeating agent, which is of course the same to all who use it, why do some persons remain "restracted" hinkers all their life and others become

The owly reply, efter some thirty years' experience in the treatment of such cases, which I can give is: that in these activalisate with have fallon before the wiles of the champion commanded—alcohol—there has been either from birth or partially to decrease, or a special susceptibility to the such fallone providing properties of the subtle poison. The majority of marchial are not handicapped by either this denience of operati, this proclimity or this susceptibility, and therefore the succession moderate. I drinkers for outnumber the diministries.

meast ed insone symptoms. A constitution, with such abvery shicker to what is often seen preceding the developand used delique nervous organization use upt to be precipiof carpoolo polyon, those who are weighted with the weaker he a tigeroughly sound body can pass triamplicantly through posterior qualities, causes be accurately described as perfectly the perturbation to the perturbation to the perturbation distriction distress, and wasting disease unscathed by the power hadden. While drinkers who lave a theroughly sound mind covered titre $^{>}$. They are symptoms of a discased condition. replace, the brace region reason is obscured, central is lost, the need is everythelized in an ageny of despeir. Or whole man which the subject staggers. The mental equilibrium is disa regional as a comparatively slight hereous shock. To my soch to sae a trivial disappointinent is a blow under What is this infillstory weakness, this prodicity, this

As a factor with a joiness intest and thics for the start with the portion tenado has exhantled resident and the factor with the factor of the

In costs of with in the is but the of-many types, there has been a classical state in the control of the appropriate the control of the many whereby the complete the control of the many the whereby the complete the control of the many the control of the control

the is at the bank. In fact, the helpfule Schembling hes A STANDARD THE STANDARD OF THE STANDARD as the desired one two the discusse tight. AND ROOM DO DESCRIPTION OF THE PROPERTY OF THE CONTROL TWO HIS NELLE CHEEK CHEEK CONTROL CHEEK the states of landacht and organic distorbance but is tre The second of th TO A COMMISSION OF WITHOUT THE POPULATION OF THE PARTY OF the tune smell and suppose the which the resulting the suppose of which So us own safe as he the floating of her which home or the SAVATE BE WILL The mades of the same and the CONTROL CONTRO THE COMPANY TO STATE OF THE PROPERTY OF THE PR THE CONTROL DAYS DESCRIPTION TO SEE THE CONTROL OF 語論のでは数学を発出 (4)の 「丁子の子は10gg TO THE PROPERTY OF THE PARTY OF THE COURT OF THE PARTY OF THE P THE STATE OF THE PROPERTY OF THE PROPERTY OF THE RESERVE OF THE PROPERTY OF TH SOLDER NOT A STATE OF THE STATE Characteristic told the real reason powerful and the best of the THE TOTAL THE STATE OF SHIP が対したのか The medical transform are or of the transformation and the second The state of state who can be placed and the state of the being a constituent and allowed a waterproved Zerrer. The endouge and the medicalcontentions Tuple apply on the management and never s this allocal the same as ballowerness THE STATE OF THE S 101147 1857 3544 35 8 1111 The varieties o

the file that the Kingdom he may common form is the

alcolodictor the reason that this group of alcolodiction made general use and is more readily abunable than any after measurements of the form of such selsy there are various types with characteristic features correspondent to the differing alcohologicaphic philipiness.

the virulence of the poison is more thinly sheathed with the liparious than our own. Delgium tremons across the Hing shan after British spirits, and in consequence are even more water been or enter incliniety. The less highly recalled the includite manifescations are more promanical. Halt in water without which we could not druk scrope drukt and spinis of the Pauripean Comment comming more flustlight physical suffering and mental percession. This for this reaa conduct beverages is shorter and more thickly studied with mobile career of an inclineer in the cruder and bearing is more frequent and its obardeter more violent while the hab Channel is increduct than with us, alconous respons the treatment of acute alcoholic disease is the asylumeof. St s in probably, that the only special mosperal in the work law Amie's in Paris Ram, gin, whisky, and biandy, long stronger in abolid

Methylated or word spirit an algoholic intoxicant differing slightly in some of its properties from ethylic alcohol (the alcohol of our purest fermented wines and distilled spirits), has of late years been the favorite inchinant of an increasing number of her majesty scubjects. Especially in Felinburgh and Glasgow, an Sundays, when the public-houses are shut, this repulsive and cheap spirit has been retailed by a certain class of druggists. The fashion has spread and methylated spirit is now drunk for purposes of intoxication in many localities. I called attention to this Scottish innovation in the first edition of my-work on Juebitety, and I am happy to see that parliament has legislated in the hope of minimizing this new alcoholic departure.

Ginger and capsicum mehrety are forms, practically, of the alcoholic type, as these substances are usually taken in a strongly alcoholic preparation, but they exhibit some addi-

usual features. The degree size is the reactive affect the amostical define we of accessive reactive affect the with alcohol always with the relative states and though it a less swift party at gradually at the Palited States, and the senate had to find seves all very but cases. It Georgia of a freeze had to find the francial ringer along with other inchritting agents as conbraced under the r strictions of a license to sell intaxicating drinks.

The alcoholic is Inequently spoken and written about as if it were the only form of inobigry. No mistake could well be more egregions. There are intoxicating substances which are consumed to excess, showever which is as terrible as, in some respects note terrible than, even the dread and cerial bondage to alcoholic seridom.

the million, are in a worse and more pitiable plight. Though tasse of an alcoholic draught, and who can be numbered by and localswomen of opium, many of whom do not know the prohistoric bird) the destroying marcir of alcoholic poison on which record (as do footprivits or fassil rocks the tread of a aleahol maddens, and thould the serious organic lesions in the main the inspissated judge of the poppy southes, while any apparein boddly or mental jiliness than to see him kil awesome to see a fellow-creature waste-gapidly away without contain aspects of peculiar horson. real chase of premiume death, yet opiate fieldigence presents matrm examination where opium addiction was been the the viral organs of the human hody are absent on a 700/the reason symptoms of deady import, the wratched object are plain to all behoblers. In the former without any of process are patent tibe pain, dropsy, and fighting for breath becomes almost imperceptibly weak and languid his skin The anutterably miscrable and wee-begone boulsmen by the alcoholic degeneration of his liver or his with bent, shriveled emodiated torm, he pures In the futter case the steps of the poisoning hadayettas he graduily beses It is, the extimple, avore

to the alcohol included. It is a much hese carable to the alcohol included. It is a much herder under alking to the absorbed to the ratio of those who prove that they are not answerable to treatment is incredibly greater. Once more, though opium in general is not provocative of the evaluation violence which is so often the fruit of alcoholic patallous, there is a stage in opiute excitation which is often accompanied by the most unbridled passion, by more revolting brotality. Gambling and immorality are too often the unbody as companioners of opasts parconsania.

unless when taken, with due precautions and on skilled denrand our entire abstinence from such perilous drugs remains that both alcohol and opium are deadly poisons, acteristics of alcohol and opium inchriety, the broad fact render unlawful the common sale of these baleful poisons, abuil with the clear voice of reason to the governing powers advice, as purely medicinal remedies for the occasion only interests of humanity. Honor, duty, and self-preservation destructive to life, and inimical to the highest and bes alcoholic beverages in India, and by practically forcing upon demoralization of native races by encouraging the sale of the government of Great Britain will cease their infamous in tones tremulous with righteous indignation, demand that Especially does the gradually awakening popular conscience countries from a common nuisance and a common danger people themselves with the power of ridding their respective or, by a satisfactory process of local option, to invest the of Biltain, either by a measure of patienal prohibition to The common weal of Western and Eastern peoples calls the Chinese the sale and consumption of opiate narcotics After, bowever, ample allowance for the differing char-

Nor is inebriety restricted to alcohol and opium. One of the most steadily increasing forms is ether addiction. For more than a quarter of a century a limited region in the north of Ireland has been the principal seat of operations. But during the past decade the area over which this passerable habit has prevailed has greatly widened, till now other vol. XII—10

Val. XII.—19

untexpention has crossed the Trish Channel, and I have, even in I endou, numbered cases among my professional chem?. Either is more rapid in its inclurating effects than alcohol. The either melanate can get drunk and become solver again three times to tone alcoholic "drunk," and at a much smaller expense. You can be drank three times a day for sixpence. Inflammation of the stomach is not uncommon, and fatal cases occur.

but unhappily this habit is advancing by leaps and bounds. intellectual. A considerable number of deaths have occurred in layor with both sexes, especially with the educated and cation, especially during the past lifteen years. It is greatly to be exercome by this anaestheric. Chloral is a seductive, as those who suffer from agonizing pains, are especially liable wakefulness and pain are induced to tamper with this decepsyrup, whereby many individuals in search of relief from to sell so lethal a person in the lumocent guise of an elegant standing disgrace to our legislature that druggists are allowed in even a "moderate" use of this subtle soother. It is a warning cannot be sounded as to the immagent risk involved powerful, and dangerous substance, and too loud a note of Those persons who are afflicted with sleeplessness, as well tive and destructive inchrimet. Chloral has been a favorite draught for purposes of intext

There are many other similar forms of inebriate disease, the most conspicuous of which are obligatorm and the recently discovered cocaine, the latest eminent victim of which latter was a celebrated French actor, in whose rooms there were found after his premature death, enormous quantities at the drug.

All those and other allied forms of the disease may exhibit the general forms, of periodicity or continuity. Inchriates may be either periodical or habitual. In my own private professional experience the periodics have been slightly more numerous than the habituals, but in the New York Fort Hamilton Hame and in the Durymple Home at Rickmansword, the proportion has been reversed, probably because

such patients have consulted me at an earlier stage of their inchriate career than they usually do when applying for admission into a house; for periodicity is often the beginning of the inchriate's alcoholic course which so frequently ends in habitual drunkenness.

a quarter or half year as in the case of pensioners and sion (such as the pay-day, either weekly of workmen, or once this chronological periodicity, there are periodicities of occaevery month, or every two, three, or more months. Besides or fourth day, once a week, once every tourteen days, once odical incbriate outbreaks may in both sexes be regular or puberty and maternity, afford marked examples. patent are seen in the various phases of female inchrictly. and excited in summer, others in winter, etc.); of atmosannuitants); of season (some inebriates being most tempted urregular. wind; of commerce, as after the exhaustion and bustle of phere, some being provoked to a paroxysm by the keen east approaching land, two types of sealaring periodicity very the excitement prior to embarking and the excitement on the foreign mail-day, or stock-taking; and of voyaging, as in The different crises through which women pass, such as frequently exemplified among sailors. There are a variety of inebriate periodicities. The recurrence may be daily, every second, third, The most

The premonitory symptoms of a periodical outbreak of inebriety are often so markedly indicative of a disorder of function and a diseased state, that long observation has enabled me in many cases to foresse and prevent the outbreak. There is a longer or shorter interlude of extreme irritation, suspicion, and unrest accompanied usually by depression of spirits, a feeling of sinking in the region of the heart or stoniach or abdomen, and it may be by trembling. A striking feature (first reported by Mrs. L'Oste) is a very general spasmodic gulping down of food, especially of liquids.

The habitual or constant form of inebricty is somewhat different. The periodic drunkard is consumed with an internal and overpowering impulse to become intoxicated,

both disciplent throught. This morbid, dominating, spasmoche impulse and so like a convelsion within, altogether independent of the collect's consent; and when the storm has based, collect by automation, or, on foreible prevention train drack of the time, and the subject remptation is given in the time, and the subject remains perfectly solver against excitation.

This is a trac state of disease, a condition of disordered function.

pate execution and glasm are the portentous harbingers of tone, but, it an orator, is more eloquient, more pathetic, uncestores. Technicos, suspection, and incitability, with alterthe reaction is more producted than ever before, and neurotic business inductal capt the operator steadies himself with speaker, and in the height of suspense before the issue of a less in his speculations. On great occasions the inguissioned mayo soul sinna gathan over jili a menchant, more grandiese dissay may be detected up his conduct. But all is not well, stage from a rate to chronic includely, nothing very extraorcostinged place of this dead includy. In the transition というははなのないということをはいれている generals chargely of the amesthetic algebraic mocker; but to his provide more sarguine in his calculations, more reck the is never "densis" in the common acceptation of the The ladstest dranktrd presents a more developed and

In this manufacty, neither thoroughly drank nor perfectly solven interregnam. Though the insheeding drinker feels nothing arms, and is deduced with the belief that he is so regard to be solven as the is really and their than he had ever been in his life, he is really and they weaken, less masser of hisself and in a worse state of health. His heart and medical are consider, weighted, and weakened; his class with a garded, and distressed; his class with a plant of some of the feels beam is oppressed, and distressed; his black is withing. His feels he must have a good dose of

alcohol to pull him together. This—the experience of many a so-called "moderate dracker" who teels proud of his ability to "temper kinaself" and "to know when to stop," who repores that he is not a drankard, and has no feed to be a tectotaler, who uses but not abuses "the good creatures," and who is "sounder in mind and limb than any abstainer alive. —is not a formal state. It is a disease, not beath. He is on the brink of a precipice, with a lessened expactly to walk along the edge, and while in this mascident, or go down with impaired power of recovery before some ordinary attack of illness which, when quite impunity.

As time wears on alcoholic indulgence pigs, by the repeated mitation, disturbance, paralysis, and beautobing, so imperceptibly, though suncly, degenerate the brain and not a substance, with their membranes, apart altogether from other tissue degeneration produced by alcoholic poisoring, that the whole being is, as it were, in one long agony, which by night and by day calls for relief in the evanescent oblivion of interaction. These degenerative physical alterations of structure may steadily extend till paralysis and rations imbedily drop the curtain on "the last sad seens of all" in a once hope F., but now wasted life.

What are the causes of the discuse of inchriety? A great statesman once said in the House of Lords. The cause of drunkenness is drinking? This is not accurate Drinking is one of the causes, but it is often only the means whereby intoxication is obtained. Besides eating, not drinking is sometimes the cause, as well as at other times, the means, as in intoxication by eating optum. Smoking is also a cause, as in the smoking of optum.

The causes of inchricty may be conveniently ranged under two divisions, the Predisposing and the Exciting

The former are the conditions which go to make the individual peculiarly liable to be affected by the disease. This

inclurate predisposition may relate to sex, age, religion, race, climate, education, peruniary circumstances, occupation, marriage relations, heredity, temperament, injuries, diet, lad hygienic conditions, and intoxicant articles.

resistance and control or a defective mean. to exiss. There is transform via heredity, one child of an fields, the child becoming deank on his first tasting strong ingerteet liver, or on unstable brain, a weakened power of the direct transmission of an idnost overpowering tendency an epacy intemperate parent seing a drankard, a secon fan liffot, a third or physically defective, brain or nerve function, CHAPTER ST and dren, and intemperate parents to have mentally unsound has been meane. Insure parents are apt to beget inchriate greater preponderance of inchriste heredity would have begin family history of each case had been forthcoming a much 1.1:00 ancles, acuts, etc. I have no confit that it an accurate goodly show of incliqute grandputents, brothers, sisters, have been able to trace a clear lastory of incbriate inherimuch so that in alreast one half of over a thousand cases I enormous predisposition. Heredity largely predominates, so to occupation, employment in the liquor trade snows an culture, education and refinement strongly predispose; as Jews are as a rule remarkably true from the disease; as to thirty and forty years of age; as to religion and race, the be immediate from one or both parents or mediate For example, as to age, the greatest liability is between There is extreme susceptibility to the action of mar-There is the inchriate trapelse from inherited weak Parental was the most frequent, leg there was a There are many varieties of the inchriate inheri-The heredity in accorsiderable small ratio of cases had fourth hysterical and so on. al eladac desions, before conception as et an There is the The Lerolity

into viorther substances is a potent predisposing cause. A characteristic mass of intervalues is to create an appetite to

themselves, and in many cases with no suspicion of an inboun alconolic taint, a prolonged continuance of daily limited drinking gradually sets up a strong and ever-growing necessity for more frequent and deeper narcotic draughts. The disease of includety is frequently the product of steady, longpersisted-in "moderation."

Sach are some of the causes which predispose to this maliely. There are also many causes which excite to drunken enthreaks in constitutions predisposed thereto.

Nerve shock is the most prevalent exciting cause. In my experience this has so operated in fully enestiard of the cases Domestar trouble, business werry, sudden loss of fortune or sudden accession to wealth, extreme grief or extreme joy becavement of a dearly loved relative or friend, and mare quited attaction, are varieties of nigree, shock provoking to the inclinite purexystan.

Transmete includety is very conjunon—that is, including as a resert of recident or violence. Especially, from head injuries is this sense observed, such as the tured skull, though I have seen mebride symptoms follow a very slight book by ay.

Dyspepsial ricementism, gouth heart disease syphilist epilepsy, and instanty, often excipt the predisposed to a crinicen outload. Exhauston from wastur; disease is aptend to a t-similarly.

Among the other exercists to rebriefy are hysteria; crises of sext the lift ence of such callings is these of method men, a transcer, cally newspaper service toleness and exercisibility, include tail over pressure, and nerve the lift of the lift.

hieldrinting substances also lake a tenericy to excite to includity. Alcoholds so powerful an excitant that a very small description being or been or splitt, administrated ages smalls, and the more specific meated which the Sacra-

eries of the symbol) would do well to bear in mind that they

cannot use an intoxicating material for sacramental purposes without some risk of exciting some communicants to an outbreak of drankenness.

From all these, as well as from many other particulars about inchriety culled during a somewhat prolonged experience of such cases, it will be apparent that inchriety is a true disease demanding recognition and appropriate treatment. Except in medical circles I am unable to discuss the therapeutics of this disease, but I am at liberty to lay down the general lines of sound treatment.

First, and most essential, there should be an entire descontinuance of all intoxicants, immediate in the case of alcohol and gradual with epium. The abstinence should be also: lute, with no exception on the score of physic unless uran emergency involving life when no other suitable medicing is what able: and no exception at all on any ecclesiastical or other plea. In persistent abstinence alone is there safety

The physical damage wrought by the poison on the system should be repaired, and the original factors in the origination of the disease should, if possible, be unravelled in order that the pre-inchriate unhealthful condition conducing to inchricte may be rectified. The resisting power and the will should be strengthened by the building up anew of healthy brain and nerve tissue, by suitable occupation, by intellectual and elevating pursuits, and the moral tone cultivated and raised by the ennobling influences of moral and religious considerations.

In many cases there is will-power enough left to secure the quoniam drunkard's steadiastness in abstinence, and with such the beneficent work of tectotal societies, especially when supported by the invigorating aid of the highest religious motives, has achieved a vast amount of success. The abstinence movement is founded on principles consonant with the true teachings of physiological science, as it is the

me elittiency of the temple of the body.

But there are incoriates without number whose brain and

higher nerve-centers have been so seriously damaged that their will has become as paralyzed as their moral sense has become deadened; who are of the most pronounced type of narcomaniaes. For these, as for not a few of the former class, who yet are so desirous to be saved from themselves that they are willing to surrender their liberty for a time in the hope of cure, a prolonged sojourn, under scientific treatment, in a genuine home for the cure of this disease is the only human hope of deliverance. The law has done some little, but we still lack a national provision for the therapeutic treatment of poor incbriates as we now provide for poor lunatics; we still urgently stand in need of legislation for the involuntary detention and care of all such narcomaniaes; be they rich of bethey poor, who are so under the inclusive domination that hey have neither resolution nor power to strike a blow for free dom.

Our resent legislative treatment of these diseased ones is wasteful disgraceful, and unjust. We have a huge government straining school of incbriety masmuch as we imprison the drunkard after i.e. as become drunk and can drink no more for the nonce, keep him in seclusion from intoxicants just long enough to recover from the effects of a debauch, and then we send him forth againstato the world once more fitted to include to excess. We refit him in a teetotal clubhouse, the only victims on whom punishment falls being the sorely-afflicted wife and children, whose sustenance has been taken from them by our imprisonment of their bread-winner.

All this calls aloud for reformation. Once let the community comprehend the relations of the disease of inebriety to the temperance movement, once let the friends of abstinence realize the physical as well as the moral and religious aspects of intemperance, the great cause in which we are associated together, under the auspices of the National Temperance League will then take a giant stride forwards; restricted League will then take a giant stride forwards; restricted will breathe through all our legalized dealing with the sick inebriate; the Christian church will clear herself of Vol. XII.—20.

will either prohibit the common sale of all such beverages as government is to preserve order, health, intelligence, and life, vention is better than cure, and that the first duty of good drink to relapse and ruin, by banishing all intoxicating wines all complicity with the temptation of the rescued from strong common danger, a common menace, a common and a shamepeople with the power of rooting out so deadly a center of a promote disease, crime, and premature death, or invest the from her sacred precincts; the State, recognizing that prebil repreach to our confutry and to our race.

PARALDEEN DE IN INEBRIETY

near being a perfect remedy for the insomnia and neuralgia to disguise it so as to be palatable. Paraldehyde comes very sons who have a sensitive stomach, and some art is required narcotic, when alcohol or opium is taken away, it has a vous system follows. From this it will be clear that as a profoundly. In large doses, complete narcotism of the nermarkedly controlled, and the motor nerves are influenced cord is rapidly diminished. The peripheral nerves are also on the temperature. The reflex excitability of the spinal ant. It has no marked period of toleration, and has been seemed to strengthen the beats. It is not a cardiac depressand reached the following conclusions: As a hypnotic in all sity of Aberdeen, recently studied the action of paraldehyde, that follow the withdrawal of opium and alcohol. preuliar value. At present, the use of it is difficult in persecretion of urea follows its use. It does not have any effect craving for the drug has ever been noticed from its long use. given for months with equally good results. No marked it diminished the frequency of the heart's contractions, it headache, depression, or indigestion followed its use. While was prompt and prolonged; no stage of excitement, and no cases of cerebral disease and nervous irritability, its action In many cases it is a laxative for the bowels. An increased Dr. Gordon, Professor of Materia-Medica of the Univer-

A SKETCH OF THE LIFE OF JOSEPH PARRISH.*

A Sketch of the Life of Joseph Parrish.

BY PAUL R. SHIPMAN.

where in these pages, was born in Philadelphia, Pa., Novembestowed in the dinner whose proceedings are recorded elseber 11, 1818. Of Welsh-English descent (English in the well as namesake, of Joseph Parrish of Philadelphia, the paternal line, Welsh in the maternal), he is the fifth son, as age, it is almost unnecessary to say that he was born a phiof Burlington, N. J., which became the patrimony of the a prominent minister of the Society of Friends, and founder ånd unspotted life closed together just half a century ago. famous Quaker physician, whose noble professional career achievements, that he has fulfilled the "promise and potency" the daughter of the house. Having mentioned his parentof the Oxmead homestead, a beautiful estate in the vicinity lanthropist, and quite unnecessary to add, in view of his Parrish family through the marriage of the elder Parrish with His mother was Susannah Cox, only daughter of John Cox, The subject of this sketch, and the object of the honors

tutors; so that when he made choice of a profession he was well equipped for the study of it, which he pursued in the which he graduated with honor in 1844. Meanwhile, in medical department of the University of Pennsylvania, from training in the schools of the Friends in his native city, supof his birth. genial and generally disappointing. slight trial of agriculture, which, however, proved unconaccomplished daughter of an honored citizen of Burlington, of Esculapius, he married Lydia Gaskill, the amiable and February, 1840, entering the temple of Hymen before that plemented by a classical course under the direction of private N. J., and subsequently during the same interval made a Joseph Parrish, the younger, received his academical Receiving his diploma,

of Dr. Joseph Parrish at Eurlington, N. J., November 11, 1889. *Read before the Society for the Study and Core of Inebriety, at a Dinner given in honor

he established himself in Burlington, the native city of his wife, where he soon acquired a large practice, including that of physician to the Burlington College and St. Mary's Hall, the latter a female seminary that rose to celebrity under the supervision of Bishop Doane, then in the zenith of his fame The chouch's of the young practitioner, already large, was steadily enlarging. He now had the professional ball at his feet.

and some hallocination, called at the office one day, and exacts what ails you, and I will give you something that a doctor agree with me, or tell me what to take. I have ounde of mother-wit," says the German proverb," is worth a did not promptly yield to the same remedial agent. "An superior sense, and never afterwards suffering a relapse that pill, met, it is needless to say, with the happiest results, the situation at a glance, "what ails you?" "Why." he answered, something for me." "Well," said the doctor, taking in the hear wityou Dr. Parrish, and I come to see if you can't do which he seemed to regard as well nigh hopeless. "I think pound of school-wit." magged nervine known in the unofficial dispensatory as brand will gure you; " which he forthwith did, in the shape of that clared the future master of nervous pathology, "that is "I think I've got a spine in my back." "You are right," de-I know what ails me," be said splenetically, "but I can't find proceeded with a very lightrious face to describe his case brought out in an amusing way his strong point as a man and patient retiring elated, profuse in his praise of the doctor's physican: An incividual from Tuckerton, N. J., evidently At the beginning of his practice he fell in with a case that

Dr. Parrish is a great and enlightened physician, but from the first the spirit of the healer has had to divide possession of him with the spirit of the teacher, in obedience to which he set on foot in 1847 The New Yersey Medical Reporter, which he conducted with such judgment and ability that it was halled at once as a power in the literature of the profession, and became ere long the official organ of the Medical Society of the State. In the course of a few years, however,

owing to failing health and the pressure of more imperative engagements, he associated with i inself in the conduct of engagements, he associated with i inself in the conduct of The Reperter Dr. S. W. Batier, to whom eventually he transferred it, and who in 1865 removed with it to Philadelphia, where, having dropped its geographical addition, it now tourishes as The Medical and Suggical Reporter. A periodical that was started nearly fifty years ago and or going yet must have started under a pretty vigorous impulse.

In 1854 Dr Parrish, at the urgent request of the Philadelphia College of Medicine, backed by the solicitation of his Philadelphia friends, accepted reluctantly the Chair of Obstetries and Diseases of Women and Children in that institution, and removed with his family to Philadelphia. Unhappily his feeble health and drooping energies presently justified the strong misgivings with which he had accepted the chair, constraining him to resign it after occupying it one term, and resort, accompanied by his family, to the softer airs of the Sorth, where he spent the coming winter. Deriving no benefit from this change of chinate, and suffering from a pulmonary complaint that threatened the worst, he returned a pulmonary complaint that threatened the worst, he returned

went to Switzerland, whose dry and rarefied air proved so summer to England and France, he in the course of the fall the order in which they are here named. Devoting the Switzerland, Italy, and Scotland, visiting these countries in wife for Europe. ceived the coup de grace from the next stage of his itinerary, nearly fatal to his pulmonary complaint that it easily rewholesome rigors and stimulating glories of the Alpine winwhich was no less than the passage of the Alps amid the ter; so that when he descended into the plains of Italy he charge, calling on the Prefect of Chargies, interviewing hospitals and asylums, expostulating with the authorities in him, because when he got to Rome, what with inspecting was himself again. And this was particularly fortunate for Cardinal Antonelli, and memorializing the Pope, his ruling spirit gave his body so little rest that if it had not recuper-His time abroad he passed mostly in England, France,

ated in Switzerland it might not have recuperated at all, although, as the outcome of this reformatory zeal, it should be said, the Cardinal was impressed, the Pope acknowledged himself "graciously indebted to the young American for his kindly and judicious interest" (conveying the acknowledgement through Ex-President Fillmore, then in Rome), and, most significant of all, the abuses which had aroused the young American's "interest" were, upon formal examination and due inquiry, thoroughly reformed. If Switzerland had done him good, he in turn did good to Italy; and the account currert between him and the Old World, when he left its shores for his home in the New, was balanced.

On returning to his native city in the spring of 1856, with health renewed and aspirations in:ens...ed, Dr. Parrish, not unnaturally, was eager to resume the practice of his profession, as he might have done under the most favorable auspices; but his friends, recognizing that he was larger than his profession, recognizing, in other words, his preeminent fitness for organizing and administering as well as moulding and inspiring institutions, pressed him to reserve his abilities for that great but comparatively uncultivated field; and to their persuasion he with some heaitation yielded, narrowly escaping the fault (matching that imputed by Goldsmith to Burke) of giving up to profession "what was meant for mankind."

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A gateway to this new field, as it happened, stood open close at hand. Certain humane Philadelphians, with the late Bishop Potter of Pennsylvania at the head of them, had recently secured a charter authorizing the establishment of a Training School for Idiots, which they had duly organized, and which, complete in body, lacked nothing but an informing spirit to make it a living thing. In these circumstances the directors turned to Dr. Parrish, voluntarily tendering him the office of superintendent, which, after much consideration and a personal inspection of the premises, he accepted, and breathed into the lifeless institution the breath of life, to such good purpose that its excellence was speedily recognized, not

only by the State of Pennsylvania, but by New Jersey and Delaware, all of which, as also the City Councils of Philadelphia, made liberal appropriations for its support. He had passed through the open gateway, and stood triumphant in his proper field.

seeking for the feeblest sign of intelligent life. When her she has gone down into the lowest depths of human existence. her, and the genial influence of philanthropy to cheer her tional address which he delivered at this period. "Within What he felt may be inferred from a passage in an educashe took it to her bosom, it whispered faint desires. When When she breathed upon it, it nestled towards her. When in its solitude. When she said, 'Awake'! it trembled hand touched it, it grew warm. When she spoke, it stirred has not been vain. With the light of Christianity to guide tion, " she has sought for mind in the idiot, and her search the last quarter of a century," he said, personifying educashe lifted it up to the light, it smiled. When she led it forth, it praised her; and into all civilized lands the word has he may speak and the blind, that he may see, but the idiot, gone out that education can reach not only the dumb, that opened it - the charmed key of insight penetrated by symshut and triple-locked he bore the key that would have gateway to his field open, but it mattered not; if it had been successful in the province to which it refers? He found the wonder that the author of this exquisite passage came off that he may stand up and say, 'I am a man." Who can The prospect was fitted to thrill him with manly pride.

In 1863, the school having long before cleared all breakers, and its course being smooth, Dr. Parrish, against the protest of the directors, resigned the office of superintendent, and entered the United States Sanitary Commission, rightly deeming that, as between children of the same land, patriotism is the highest philanthropy, and, without qualification, service of one's country the first of civil duties. The school, however, it is a pleasure to state, exists to-day in unabated prosperity.

good work, the doctor made an extended tour to numerous whenever there was suffering humanity to be attended. He viscamps and hospitals within the Finon lines in the West and which he did, with very gratifying results. To complete his of the loyal States, and endeavor to unity and concentrate tary Commission Board to visit the governors and legislators connection with his other services, and so successful was he holding public meetings, and organizing aid societies. About supplies, Dr. Parrish was delegated to travel through the spector of the camps and hospitals in the vicinity of Wash-"He first acted," says a memoir of him published in 1874 services, it will be readily imagined, were of surpassing value. and other intermediate places looking after the sick and ited Nashville, Lookout Mountain, Chicamauga, New Berne, South, under a full commission from the President of the the collection of supplies, that he was requested by the Saniin organizing societies for the manufacture of garments, and this time he also edited the Sunface Commission Bulletin, in the government required more help in the procuring of acquainted with the actual wants of the soldiers. When ington; and here he labored zealously to make himself in "Representative Men North and South," from which, by alleviate the sufferings of both Northern and Southern contributed not a little by her own personal attentions to in charge of the stores at Annapolis, Maryland, where she took charge of the supply stations at White House and City the authorities of the government. For some months he also wounded, and distributing the supplies of the people through of clothing, ice, and hospital stores, for gratuitous distribuprincipal towns of Pennsylvania and of some other States, the way, the facts of this sketch are partly drawn, "as an inhis expeditions nearer home, besides which she was herself tion. Mrs. Parrish accompanied her husband in several of United States. He was always to be found wherever and the work of this important auxiliary to the government, Point, where he received from the Commission whole cargoes As a member of the Sanitary Commission, Dr. Parrish's

sick and wounded. She also prepared a very large edition of a little volume called the Soldier's Friend, containing directions how to find the Rests and Lodges of the Commission, as also a choice collection of hymns for gratuitous distribution among the soldiers. Fifty thousand of these were printed by the Commission and distributed gratuitously in the army and navy."

without finding another or becoming his own, and in reality means the innocent occasion of the strife, who in the hurry of both sections without distinction, not omitting by any rendered not so much to a cause as to humanity, embracing of the moment realized only that he had lost one master of the South and North alike, and generally to the necessitous both parties to the conflict, so far as possible, even while it was a much fitter object of compassion than either of his peace in his person installing themselves in the headquarters station of the Sanitary Commission, and supplied it with lasted, and when it ended, extending at once to the soldiers stead of the messengers of carnage, the ministers of sympathy so lately occupied by enmity and war, and sending forth, inhospital stores for the benefit of the two armies, charity and surrender Dr. Parrish, accompanied by his younger brother white rivals in distress. The day following General Lee's Edward, entered Richmond, Va., where he established a and of hope. These invaluable services, it may be said with truth, were

attention he yielded to the impulse of private attachment, and with his brother hastened to Fredericksburg, in the neighborhood of which lived, at the outbreak of hostilities, a friend of his, a large slaveholder, at whose house he had frequently been a guest, and with whom at the beginning of the struggle he had exchanged letters, and at length, agreement being impossible, arted not in anger but in sorrow. The incidents of this visit are so interesting and impressive, and reflect so much honor on all concerned, and indeed form so characteristic and memorable a scene of the new-born

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even in a running sketch like the present. peace, that no apology is made for pausing to record them

gone a conclusion, and it was agreed between them that the called together on the lawn to hear it. especially of his relation to his slaves. They finally reached in getting hold of the situation of the latter's a fairs, and sometime. The doctor and his host spent most of the night with laughter and merriment, such as they had not known for concert with the hostess, filled up a few hours of the evening ing to the laws of war, no one could have been more warmly doctor, next morning, should communicate it to the negroes loving and loveable, took the children to himself, and, in meeting all round. Edward Parrish, gentle, sympathetic, time in summoning her husband and family. It was a joyful welcomed by the good mistress of the house, who lost no announce his presence. Enemy though he had been accordhaving been, as already mentioned, a visitor there in years big door very cautiously, apparently fearing intruders. He of the old black Aunty met his gaze as she opened the ises. On the doctor's knocking, however, the familiar face with the visitors whether or not any one occupied the premings, and, the house being tightly closed, it became a question sadness were written all over the entrance and its surround city, reaching there late in the afternoon. Desolation and brother to the home of his friend, some five miles from the Arriving at Fredericksburg, Dr. Parrish drove out with his by, she knew him, and, calling his name, hurried to

would be interested to hear. He then took his seat on a log, them were field hands. With the house servants only was in number, old men and old women, young men and young sounded, and the negroes gathered on the lawn, about fifty and seemed immersed in thought. It was a crisis in his life Dr. Parrish had something to tell them, which he knew they friend, who in a few words gave his people to understand that the doctor acquainted. The business was opened by his women, single and married, but not many children. At an early hour in the morning, accordingly, the horr Most of

> and but few implements - his laboring force free and at their cerned, yet with plenty of land - with only one mule left, impoverished by the war, so far as ready money was conof independence that betokened a conception, more or less own disposai, and what they would do or say a matter of world they had never seen beyond the bounds of their home. clear, of their new relation to their former master and the the young men, stood upright, with folded arms and an air the grass, some leaned against the trees, some, and especially doubt even to themselves. Some of the negroes sat upon hesitate. They were "in a strait betwixt two," not knowing been strangers till now, and which made them doubt and dicative of something stirring within them to which they had was authorized, on behalf of his friend, to lay before them. how to begin or what to say, besides the bare proposal he which way to go. He, also, was in a strait, hardly knowing by their behavior. It was quiet, respectful, polite, but in But the duty was upon him and must be done. Or. Parrish was impressed (as who could have helped being?)

fought well. They were all brave men. The women and and tell me what you think of my friend's offer to you, which come from, and I feel sure that you will listen carefully to what children were brave, too - brave in giving up comforts they I say. And when I am done speaking. I want you to speak had been accustomed to, and submitting to hardships they your country here in the South. The soldiers on both sides we have had a dreadful war between the North country and thanks to your master and mistress for that. and serve in various ways. You have been kept together have been scattered in different places, and taken away by that you are much better off than many of your color. They lost ones. As to the colored people, I want you to know both sides, and scarcely a family lives that has not wept for never knew before. Thousands of soldiers were killed on I shall tell you about in a few minutes. You all know tha the soldiers, and pressed into the army, to cook, and drive, "My friends," he said, "many of you know me, and where I Your cabins

some bacon in the smoke-house, and a few hams. You may and wages for the time between now and then. Now what a share of the corn and bacon, but no wages, now. If you dwellings, and barns, and tobacco-houses, and all, land - he still holds this beautiful plantation, with all its you think, and my friend will hear and understand you." do ye I say to this? I want you to speak, and say just what harvest them, you shall have wages when the crops are sold, will stay on as you have been doing, put in the crops, and keep your cabins, your pigs, and chickens, and you shall have wages at present. He is poor like yourselves, but he has carefully. My friend says that he has no money to pay you will accept of what he offers you. Now listen; and listen selves. And if you like you can stay where you are, if you can go out to the great, big, strange world, and shift for your there does not own you any longer, as he did before. You and your little stock of whatever you had, have not been dis turbed, and I find you here around the old home yet. paper, under the rules of war, you are free. My good friend has sent all over the country to be read by all the people [Here he read the Proclamation of Emancipation.] By this want to read you what the President of the United States There is

chillun, am here yit - dey sort o long to me and us ole fel-"And you, doctor, dat kum here ter tell us we am free, and and de ole place look bad, is I gwine ter lebe you? No, no, good to say dis; but Marse Jeems, and de missus, and de lers — and we is gwine ter stay." dat we kin go, if we wants to, I say, tank 'ee! you am has kum'd ter you and de misses, now dat de crops don't grow, Marse Jeems, I is not!" Then turning to Dr. Parrish has nebber parted from dat day to disamand now dat sorrer field on de ole mule, and you was nebber hurted. You and me keered for you. When you growed bigger, I tuk you terde cornsaid: "Marse Jeems, I lib wid you' fadder and modder, when white-headed man stepped forward, and, addressing his master, you was baby. I done karr'd you in my arms. I lub you, and A long pause ensued, perhaps five minutes, when an old And so said they all

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and stay they did, for the remainder of the life of the doctor's friend, who to them was always "Marse Jeems."

Returning from this mission of friendship, Dr. Parrish wound up at last his humane and patriotic labors by visiting, in company with his wife, the principal cities of the South, for the purpose of inspecting the schools established there under the direction of the Freedmen's Commission, and reporting the facts concerning them; which purpose, it need not be said, he accomplished with fidelity and thoroughness. The terrible crisis was over. He had discharged his whole duty to his country; and, with an approxing conscience and invigorated constitution as his ample reward for the priceless service, he was free to turn once more to his chosen field. He had answered generously the trumpet-call of patriotism, and now, the republic saved and liberty secure, he right hearken again to the proper voice of humanity.

and reverberations of the shock of battle had died away, head, straightway made the old response. Before the echoes well-known accents; and his heart, linked as of yore with his forces of the organization. to embody in himself, whether he would or not, the active forward became the organias well as executive, obliged indeed was the president, as he had been the originator, and henceassociation, composed of leading Philadelphians, Dr. Parrish elevation of the ignorant and neglected classes." for the reformation of inebriates, and for the moral and socia pose, as declared in the charter, of "establishing a society was incorporated by the legislature of that State, for the pur-Citizens Association of Pennsylvania," which in June, 1866, Dr. Parrish originated the movement developing into "The His car, as the reader will anticipate, quickly caught the Of this

It is first official act on behalf of the association was an address to the people, defining the end immediately in view as "the purchase of lands and erection of buildings for the cure of the intemperate," stating the method proposed for "the cure of the intemperate," with the philosophy of the method, and, finally, appealing urgently for "sympathy an

somer it was not it showes follow the Pennsylvania Switterium, we wholk the pinkerbrook arms and parlosophic views of the research to be shown to keep the with the Pennsylvania Switterium, we wholk the pinkerbrook arms and parlosophic views of the research to the acceptance find are seed and chairming part of the wilder of the seed of the acceptance Coerty, Pa. for teen indestigated in the proposition that inchrity is a discrete with a case in the proposition that inchrity is a discrete where allower resignments of any part of the second research which the proposition that inchrity is a discrete since allower resignments and any happined more findly allowed the first part of the proposition that inchrity is a discrete which the Parrosh of Parrosh of the proposition to say that he is too to the first of the parton of

The variable in the publication of a mark in manufacture which is a mark in the publication of a mark in manufacture who have the hortom the same will be a mark in which which is a mark in the hortom the same will be a mark in the hortom the same will be a mark in the hortom the same will be a mark in the hortom the same will be a mark in the hortom this country, and the same for itself, and for its same recleated in a same for itself, and for its same recleated in the mark in the same for its same in the same in the

represent. The call was eligiblely answered, and at the appositive and place the migating came to pass, and, in Von Vork, we'n the view of mel'theying such institutions. 丁二日 本行き品 日 sortion to come temether on a designated day in the city The second the second second \$ 100 AU e the southered inchrinte assiums of and others, physicians, and others the teasiste modes, the cause they The Carrier of the Carrish with others, and make s wild and full as possible the growthing of a public

pursuance of its object, organized The American Association to the Study and Cure of Inchricts, of which he declined the presidency, but accepted the secretaryship, and formulated the principles, formulating them so well that they stand now, word for word, as he defined them then. At the annual meeting of the association two years later, however, he accepted the presidency, which he has since held. It is his incumbency of this office which furnished the nominal occasion of the honors recently paid him at his home in Burlington; the real occasion, as the readers of this Journal need not be told, was his unsurpassed services to the cause, bull-red with the charm of his character.

rapid strides of the movement which it heads, Dr. Donald consequence known abroad; insomuch that, attracted by the country in 1871, expressly to examine the institutions under a select committee, of which he was chairman. In compliwho are conversant with these institutions" to "come to least : No of the most competent and best informed of those their superiority, requested the association to designate "at Dalrying e of England, M. F. and F. R. G. S., visited this Inebrioty in a short time made itself felt at home, and by troduced into Parliament by Dr. Dalrymple, and referred to England and give evidence before the Committee of the its wing, and, having by the examination satisfied himself of its president, and Dr D. G. Dodge of Binghamton, N. Y., ance with this request the association designated Dr. Parrish, only once saw the superintendent, Dr. Parrish, who, from tion: "I visited the establishment at Media twice, though I in his report to the House of Commons he made this menour country, examined the Pennsylvania Sanitarium, of which thetically, that Dr. Dalrymple, among other institutions in England in April, 1872. It may be noted here, parenits secretary; who accepted the appointment, and sailed for House of Commons," the question having previously been inviews and sobriety of judgment, I place at the head of all length of experience, accurate knowledge, moderation of those with whom I have had communication." The American Association for the Study and Cure of

Dr. Parrish and his colleague, on arriving at London, appeared before the committee, at intervals, for two weeks, a stenographic report of their testimony being taken, and published as a Parliamentary document. The views they expressed in the course of their testimony, and which their testimony sustained, were unanimously plopted by the committee in its report, and subsequently, under the direction in large measure of Dr. Dalrymple himself, carried into effect. The American delegates, it should be remembered with pride, reflected credit on their country, as well as on the association that searchem. The association, it is certain, with the movement which it leads, scored a distinct triumph.

rowful event that Brought it about. casion, however, is noticed here chiefly on account of the soring, would have pronounced the doctor's felicitous remarks although an impartial judge, one may be pardoned for think they interrupted more than once with protound grunts of aphappily pitched in the key of aboriginal cloquence, which ness. Dr. Parrish them did in pantonime, with marvelous distinctness and vividincidents of his infiniter's death, which one of the principal of spects to him as the brother of their mediator, and relate the of their chicis, who after coing homage to their great father be remembered, they sent to Washington a great delegation infortunately deligible live to return home, dying among the consider it. Ultimately the appointment was conferred on with the hostile Inchans-north of Texas; but in consequence out his knowledge was appointed by the President of the trong Indian than those of the budians themselves. The ocproval, and at its conclusion responded to it in the same key his brother Edward mentioned above, who accepted it, but ing in his declination in spite of repeated solicitations to reof the illness of his wife declined the appointment, persist United States, an alluly commissioned, to negotiate a treaty the President, visited Dr. Parrish at Media, to pay their re-Indians when he had quieted. Not long afterwards, as may Shortly after the close of this mission, Dr. Parrish, with greceived the chiefs with a short speech

In the fall of 1872, the trustees of the Maryland Inebriare Asylam at Baltimore, Md., called on Dr. Parrish to take charge of that institution, which, though chartered in 1860, was still on its first legs, that bade fair to prove also its last ones, being unknown, distrusted, and all but insolvent. However, he consented to take charge of it temporarily, without relinquishing the superintendency of the Pennsylvania Sanitarium, and continued in charge of it for two years, at the end of which the Asylum, no longer unknown or distrusted, was scated in new and beautiful grounds, housed in commodicus and tasteful buildings, and filled with inmates. He left it on the highway to permanent success.

of a century, returned with his household to Burlington which are admitted a limited number of the milder class of assuage his own affliction by the congenial occupation of removing the afflictions of others, he opened in Burlington tinue to be, until he goes to his last home; whither, alas N. J., which is now his home, and in ail likelihood will conrefined and luxurious home, as it is animated by the spirit of nervous patients, and which presents notably the aspect of private institution known as Parrish's Home for Invalids to In the shadow of his bereavement, and possibly thinking to his estimable and devoted wife preceded him five years ago. numbering about a hundred, and including members of the with a reception at the Dalrymple Home, by the British Somonths later, doubtless influenced still by the two-fold motive one. It fills his ideal of a remedial establishment. A few medical profession. In receiving Dr. Parrish the president nobility, of the army, and of the clergy, as well as of the ciety for the Study and Cure of Inebriety, of which the distion of similar establishments, and while there was honored that gave birth to it, he visited England on a tour of inspecresolution of welcome, which, after being seconded by one of the society made a congratulatory address, closing with a tinguished Dr. Norman Kerr is president, the invited guests Dr. Parrish in 1876, after the lapse of nearly a quarter the most eminent members of the profession in Great

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Britain, and supported in laudatory speeches by representative guests, was passed with cordial unanimity, and of course suitably acknowledged by the recipient of the honor. Dr. Donald Dalrymple, sad to say, for whom the Dalrymple Home was named, and whose tour in this country has been referred to, had meantime been numbered with the dead. Dr. Parrish, none the worse but rather the better for his trip, returned home in the spring of 1886.

tion Dr. T. D. Crothers of Hartford, Conn., secretary of the the question "Is there a Climacteric Period in Inchriety?" NAL OF INEBRIETY, and Dr. T. L. Wright of Ohio, author Inebriety in London, having as his colleagues in the delegaassociation, and editor of its organ. THE QUARTERLY JOUR-Association to the Colonial and International Congress on companion, Mr. W. E. Schermerhorn. The paper wes short the compliment worthily bestowed on his distinguished colvices to the cause, Dr. Parrish being present as an honored gave to Dr. Crothers, in the rooms of the Medical Society of of a profound and striking work entitled "Inebriism." deed, was the object of especial attentions. He came back received numerous marks of respect from the press as well but pregnant and suggestive. During his stay in England he which, permission being granted, was read by his friend and Westminster Town Hall, Dr. Parrish presented a paper on guest, and making a graceful speech in acknowledgment of rymple Home, a public reception in consideration of his ser-London, as it had previously given to Dr. Parrish at the Dallate in the summer, completing safely and agreeably a voyage as the profession. day before the meeting of the Congress, the British Society which, in view of his impaired health, was not without some land once more, this time as a delegate of the American Some year and a half later, in June, 1887, he visited Eng At a meeting of the Congress which followed in The American delegation as a whole, in-

It may be worth while to state here, what was shut out above by the sequence of more important things, that Dr.

Parrish was invited, as an expert on insanity, to attend the autopsy of Guiteau, and when he failed to appear was summoned by telegraph, with the assurance that the examination, should he consent to come, would be deferred till his arrival; but he declined to attend.

Dr. Parrish has no children alive. A son, full of promise, died in childhood; and a daughter, Mrs. Charles S. Welles, of Elwyn, Pa., his only other child, departed this life in 1879, leaving a daughter, now some ten years of age, who is his sole lineal descendant living. This child was present at the late banquet to her grandfather, as the guests must well remember, for she played among them like a sunbeam.

Samuel Parrish, his youngest brother, and indeed the youngest dom from care, resigned the active professional duties of the routine irksome, and feeling more and more the need of freeof the family, albeit he himself, vigorous and bright as he is, volving at the same time the duties of supervision on Mr. Home to his nephew and associate. Dr. Wm. G. Parrish, detive, leaving him at liberty to indulge without restriction his to make him afraid, but all vie with each other in filling his his vine and under his fig-tree, where not only are there none richly earned the right. He sits in the evening of life under and in general for that ease with dignity to which he has so tastes for literature and philosophy, for the society of friends, ices, as befits his years, are consultative rather than opera-Dr. Parrish, it is true, remains physician-in-chief, but his servhas entered upon what Victor Hugo calls "the youth of age." cup of joy. That which should accompany old age, and which none but the good may book to have, is his in flowing measure, In the course of the last year or two, Dr. Parrish, finding

As honor, love. obelience, troops of friends.

An estimate of Dr. Parrish's character and intellect does not fall within the scope of this imperfect sketch. Yet a word or two on this head may be pardoned. Dr. Parrish incorporates the cardinal virtues, but perhaps the trait of his character to which he owes most, and the world after him, is

his fame are strung on it. vitalize great enterprises, and conduct them to fruitful issues. seems not his but their own - ns power to attract men, the central point of a question - his rarer gift of expression, agency by which Dr. Parrish has achieved the beneficent a man of strong and trained intellect, but his most potent inlodging his thought in the minds of others so simply that it measure, his rare gift of comprehension, grasping intuitively work of his life. To it may be ascribed, in greater or less these two traits, vitally, and we have a fair working definition tellectual trait, if the opinion may be hazarded, is common sympathy, in fine, that is not pity so much as love. that raises instead of lowering the self-respect of its object - a sense — common sense in an uncommon degree. sympathy,—a sympathy manly, penetrating, true—a sympathy It runs through his life like a golden thread. The jewels of We at any rate, it is submitted, have the chief Combine

But there is one thing about D. Parrish, both as a speaker and writer, it must be owned, that can hardly be traced to this source, lying deeper in his mental and physical organization. And it is a very captivating thing. It is that force without effort from which his readers or hearers instinctively infer a reserve of force that puts them at ease with him and with themselves. At the intellectual feast which he spreads no great ever feels that the service exhausts the supply; every one feels that, abundant at the good cheer may be, there is more where it came from. His force is not a barrel on tap, but a fountain welling forth. And no other trait of personality is so significant of the stamina of greatness.

In person Dr. Parrish is below the middle height, but thickset and broad-shouldered, having withal, notwithstanding his sturdy build, a suspicion of the scholastic stoop. His manner in society is frank and cordial, with a shade of reserve in the background, and a touch of positiveness beyond, suggesting unobtrusively the decision and independence of his character. In conversation he is ready and genial, but speaks to the point, and stops when he makes it, whether it be serious

or playful. If he should live to be twice as old as Methuselah, he would not arrive at the stage of garrulity. His quickness in retort or repartee is remarkable; but his satire (of Damascus keenness and temper) is without question the deadliest of his controversial weapons, although, to his credit be it said, he has never used it, except under strong provocation, and not then save in defence of what he felt to be truth, realizing the chivalrous sentiment of Angelo's suitor:

It is excellent
To have a giant's strength; but it is tyrannous
To use it like a giant.

which he is an adept, some of these little screeds rivaling in ability confines him to the house, is dispatching to his friends verisimilitude the parable of Franklin's that once set so many brief epistles, composed in imitation of the Hebrew idiom, in and no doubt even a more loveable boy than at first. Here friends, at his own home or at theirs, he is simply a boy again, bible-readers by the ears. In the circle of his intimate pastimes, more especially when bad weather or physical disgood as he sends, though it should chance to be no better antry, returning quip for quirk, and giving the merriest as some, capressive of sagacity informed by fellow-feeling, and in private is altogether delightful. His countenance is handanything else. Years, while ripening his head, have renewed than nonsense, which he is too wise a man to answer with he disports himself in anecdote, reminiscence, wit, and pleashis heart. Admirable in public, and agreeable in society, he He is fond of epistolary writing; and one of his favorite - but is it not graven in your frontispiece?

There are seven private inebriate asylums in Scotland, which receive cases mostly from the upper and middle classes, who pay for care and attention. Several of them receive contributions from the benevolent, to make up the deficiencies in the cost of conducting the asylum.

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SOME NEW STUDIES OF ALCOHOL

Recently two papers have appeared which contain some suggestive facts along the line of scientific study of alcohol. The following are some extracts which give an outline view of the work and general conclusions reached. The first paper is by Dr. Reichert "On the Action of Alcohol on the Animal Heat Eunctions," published in the Therapeutic Gazette for Februar 1890.

He remarks on the conflicting evidence of the physiological action of alcohols, and believes that it is attributable to the diverse circumstances, and imperfect methods, faulty observation, and deductions which are made.

The asserted value of alcohol as a food, and its peculiar molecular composition and tendency to undergo oxidation, and yield energy in the form of heat, give great value to any accurate information of its effects on the economy.

production by indirect or direct calorimetry. Indirectly, it calorimeter. Practically, all the work done with alcohol has been accomplished by the indirect method, and is accordingly adapted for direct determination, and hence known as the formed is measured by means of an instrument specially by regarding temperature changes in the organism as indicatand of the effete principles resulting from their oxidation, and ical composition of the substances entering the body as food, is estimated through a knowledge of the quantities and chemheat produced, the quantity dissipated and on the bodily teminvolves the consideration of its effects on the quantity of ing similar alterations in thermogenesis. from this data computing the amount of heat evolved; or, The study of the action of any agent on thermal processes Investigators have been led to determine heat Directly, the heat

open to many sources of error and is inconclusive. For while there can be no doubt that CO₂, urea, phosphates, and other effete matters arise through destructive tissue metamorphosis, by which heat is formed as the chief result, just what importance any or all of these products possess in indicating the degree, or even the direction, of the activity of the processes concerned in heat production is far from being determined.

relation between the quantity of heat formed and of CO2 measured by a calorimeter, and the CO2 by established methods, would lead us to believe that there exists no direct duction is clearly evident whenever the two are measured not of retrograde metamorphosis. Finally, that there is no climinated; while in connection with urea, which was once inated is indicative of the amount of nitrogenous food and recent experiments show quite clearly that the quantity elimlooked upon as almost an absolute index of tissue waste birds, and Senator's on dogs, in which the heat formed was simultaneously for consecutive hours. Until, however, the definite relation between bodily temperature and heat proestablished, their usefulness in suggesting the probable directhe nature of the changes in thermogenesis are definitely precise values which these effete matters possess in indicating tion of thermal alterations may be accepted with caution and Desplatz's experiments on rats, guinea-pigs, and small

A number of authorities and their experiments are given, from which he concludes that the evidence regarding the consumption of O, and the elimination of CO₂ is conflicting. The most carefully performed experiments indicate a determination of both, but this is not definitely settled.

The careful studies of Riegel, embracing eighty-six experiments on man, lead to conclusions which doubtless closely represent the peculiar actions of alcohol on animal temperature. In his summary he states, among other conclusions, that—1, alcohol, even in moderate doses, in many cases causes a lowering of the temperature, the amount of diminu-

profound effect, and in another little or almost none. Illusaccord with the dose, a given dose in one case producing dogs agree in their results with the conclusions of Riegel. directly proportional to the dose; 5, the depression for the change; 3, the frequent repetition of doses of alcohol diminonly exceptionally is an elevation of temperature detected trations of this may be seen in records of experiments in this The intensity of the action, however, is far from always being most part is of short duration. My own experiments on ishes the lowering effect; 4, the amount of diminution is and not unfrequently after small doses there is no noticeable tion averaging, as a rule, a few tenths of a degree C.; 2,

strongly suggest that alcohol diminishes the normal activity ters given off are diminished, and the bodily temperature of tissue changes. dowered. quantity of oxygen consumed and CO2 and other effete mat-Briefly, the evidence, then, seems to indicate that the All these changes being in harmonious relation

eal economic importance, for it must be evident that either eliminated largely represents an alcohol derivative. metamorphosis is so diminished that the quantity of CO2 ing-from the decomposition of alcohol, or else general tissue his gas does not constitute one of the chief products result-The fact that CO2 is not increased is one of great practi-

show that living blood causes about ten per cent. to disappear mimediate oxidation products, is clearly established. What becomes of it and in what form eliminated are unsettled and that we do not find either in the system or excreta any absorption, that but a small percentage is eliminated as such, That this agent rapidly undergoes chemical change after The experiments of Schulinus and Salzynski

that but a small percentage is eliminated as such. ate quantity, rapidly undergoes alteration in the system, and It seems very clear from this work that alcohol, in moder-

While we do not know the precise nature of this change

and H2O. As it is obviously impossible to satisfactorily detect in the excretions such small quantities of H2O as there is no reason to believe that a more complex molecule than normal. This, however, is explicable in the possibility the quantity of CO2 eliminated after alcohol is actually less of CO2. Here we meet with the formidable indication that would thus be formed, we are dependent alone on estimations breaking up of the molecule into simpler bodies, such as CO2 is formed; but, on the other hand, the indication is of a of the deficiency from its own decomposition. That it does amount of the gas arising in this way, and supplying a portion sening normal tissue metamorphosis, thus diminishing the of the drug acting directly upon the heat processes and lesters, and also by the diminution of the animal temperature lessening of the amount of nitrogenous and other effete matdiminish destructive tissue change seems supported by the measurement of the quantity of heat produced and dissipated But this can only satisfactorily be determined by direct

total approximate heat production of an average man per one gramme of absolute alcohol setting free nine kilogramme energy in the form of heat during its complete exidation quantity eliminated per diem. That this agent actually does gramme degrees, being equivalent to about one-fourth the the heat evolved from a quantity, such as taken by Bodlander one hundred and fifty-two grammes, or one-sixth the mean (100 e.e.), would equal about seven hundred and fifteen kilo tain an equilibrium of metabolism on limited food. restricted diet, and the known ability of the economy to mainincrease of body weight often observed in drunkards even on dent in its power of sustaining the system in disease, in the yield energy, or else conserve the tissues, or both, is also eviof heat must be increased or less tissue change occur to com alcohol thus yield energy it is obvious that the total output pensate for it. Alcohol, as is well known, yields an enormous amount of The amount of CO, formed would be equal to about Should the alcohol thus be oxidized in the body Should

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Bevan Lewis made some calorimetrical experiments, and reached the following conclusions:

- α A primary check to heat formation is most marked and protracted when small doses of alcohol are given.
- 2. A pronounced fall of body temperature is most marked during the first quarter hour and coincident with the primary check to thermogenesis.
- A secondary greatly increased heat production varies directly with the dose.
- 4 The increased heat production is manifested over a more prolonged period after larger doses.
- mented from time to time until the heat climax reached, a period usually coincident with the registry. If the heatst bodily temperature.
- 6. The heat climax is more protracted or postponed, and is greater in degree with larger doses of alcohol.
- 7. The greatest loss of heat units from temperature (diminution of temperature) occurs during the first interval, subsequent intervals being marked by a still progressive loss, which, however, becomes less towards the period of heat climax, when a restitution to the normal of temperature begins.
- 8. With small doses of alcohol this restitution of bodily temperature is usually sudden or comparatively rapid in operation: after larger doses the return to negual temperature is spread out over a longer period, being extremely tardy when very large doses are a inninistered.
- 9. The characteristic action of alcohol is that of greatly increasing the heat production, while a dispersion of the fresh formed heat is facilitated by peripheral vaso motor paresis, and that only in very small doses we get a temporary lowering of the heat functions.

In the experiments of Wood and myself on dogs five observations were made with different doses, and with results in accord generally with Bevan Lewis's, inasmuch as on the whole heat production and dissipation were both increased. Our experiments were conducted differently, the normal pro-

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duction and dissipation being studied for one perbod of from one to two and a hulf hours, then the alcohol given, and a second observation made for a similar length of time. These results are here tabulated

The object of this special study was to determine the action of alcohol on the animal heat functions, during consecutive hours. An improved calorimeter was used, and dogs experimented upon.

ing enormous doses in man, yet they are never toxic in the e.e. per kilo. Such quantities seem large because representbody weight, being in proportion of 1.25 e.c., 2.5 c.c., and 5 The doses employed were always in direct relation to the ent upon foreign salistances, like fusel oil in the former, was used to eliminate effects which might possibly be depend second hypodermically. In the third series absolute alcohol cial alcohol (sp. gr. .835) was given by the stomach, and in a imum effect is manifest during the first and second hours marked evidences of intoxication are present. If so, the maxdog. It is rare, after ploses of even 2.5 e.c. per kilo, that any ably during the progress of the experiment, but at times they commonly increased slittle, and gradually fade away noticec c. per kilo of absolute alcohol. With the largest doses vomgrow more and more pronounced. This dose is, however, phenomena are usually marked during the first hour, then After doses of 5 c.c. per kilo, alcoholism is decided. local abscesses commonly followed. far from being a tatal one, which is perhaps about 8 or 10 Three series of experiments were made. sometimes occhrs, and when hypodermically injected In one commer-

The prominent features in these records are the fluctuations in heat production and heat dissipation occurring from hour to hour, the general tendency to a diminution of heat production and relative excess of heat dissipation and the generally downward and progressive fall of the animal's temperature. While the variations from hour to hour in production and dissipation are quite noticeable, they are as a whole, no greater than is common in normal animals. The peculiar

actions of the drugtare, therefore, manifest in the prevailing decision of the drugtare in the elimitarisated their relation to case when he which the health temperature becomes altered. Then follows a series of eighteen experiments with very claburate tables of results, which are concluded in the follows.

waste animals are subjected in the calorimeter to such studies, will thus be observed that we have here two opposing factors the characteristic effect is to diminish heat production that the elect of this would be indirectly to increase thertion of the successes capillaries recordingly the amount of a leet indirectly the activity of Chermogenesis. Second to negonesis to make the for the escates loss. In fact, however, is increased and as a consequênce, was dissipation facilit section to be an escablished fact that alcohol causes a dilaradissipation, and since dissipation is increased it is obvious which primarily affect the an Free of heat dissipated will lated. Therefore, alto bot would thus tend to it crease hear blase exposed to the coding in hences of the surroundings matherese in bully temperate attented to prevent unnecessar. It is of energy or an abnorare exposed to cold, heat production becomes also increased and the allecting to the we. Were the certain experiments the reverse of this should contingly, it heat dissipation is findule increased, as when we recipies al relation existing between the functions of bear conference in, or closely religible of the heat mechanism to be found in a complex of the first on the processes ne diminished heat headown a make up for the excessive however, should heat dissipation is suc will induce a sympather production and heat dissipations overers years be determined. Doubtless the explication is ant excess of hear dissipation and thus lower bodily temperaanimal heat functions is to cause relative to heat production recents that the chiracteristic action of alcohol on the It seems accordingly clearly established from these would rend to be similarly the characteristic there is a and a least of the section. rhugein the other, 10-Therefore all conditions

is through vasi-motor alterations, and the other to decrease of these two factors. Addied to these is undoubtedly a libit other things being equal, to the relative values and relations would be increased or diminished or what the relation of Hence, whether or not in any given case heat production it, probably through direct action on thermogenic centers affecting heat production, one midirectly tending to increase twenty-four hours, all point conclusively in this direction that buggivery small percentage is eliminated as such and cent, or more almost instantly disappears in the living book tions on entering the blood. The fact that about reprine no doubt that alcohol undergoes decided molecular alternfactor, which further complicates the action. There can be heat production and heat dissipation would be, would depend that but trace- exist even after large lasses after the hipse of structive changes through extration, yielding simple products that the molecule is rendered more camples while, on of the element processes in the animal organism to suppose which dethe While ig is admitted that we do not know the exact change neg a given period of time. Hence it follows, that exer such 2 other hand, there is reason to believe that it undergoes t Tillifa as airculy shown, may be considerable. Consequently, the degree the amount of heat evolved from a moderate dose Since each gramme of alcohol yields about nine kilogramme such a loss. Added to this there may be a temporary in one-fifth, yet the number of hear units arising from the prob matter of great moment in affecting the thermal output durtinued fluctuations in the activity of thermogenesis under able exidation of the drug might more than compensate for perindent generally tend to diminish heat production nearly THE REAL PROPERTY crease in the quantity of heat formed ar a result of the con formed after the ingestion of alcohol is practically unaltered certain conditions connected with the method of ex CO, and II and energy in the form of hear conditions. Moreover, while the quantity of heat with which lear would thus be generated that lea in this substance, it is opposed to all knowledge

an action directly or indirectly diminishing tissue metamorof heat as a result of the oxidation of alcohol; and possibly and, as a consequence, the variations which occur are not obvious that the nature of the results following the ingestion and likely directly, these processes; the probable generation action of the drug upon the circulation affecting indirectly, which occur in the heat processes in normal animals; the circumstances; the considerable and nexplicable fluctuations thus resulting being made up by the destruction of the without explanation. of alcoholiwill depend upon their relative degrees of intensity, inseparable from calorimetrical methods or other associated we have, as important factors, the effects produced by and Consequently, the study of the action of alcohol on animal alcohol with the formation of new and unknown derivatives. urca, and other effete matters eliminated, the lack of heat heat functions is, doubtless, one of great complexity, in which dicated in the probable lessening in the amounts of CO2. yet the tissue change may be actually diminished, as is in me of these being directly antagonistic, it is

In conclusion, these experiments, as a whole, show clearly that alcohol does not affect the total quantity of heat produced: that more heat is dissipated than produced; that the fall of temperature is due to the excess of dissipation and is in direct proportion; and that in all likelihood alcohol by undergoing oxidation yields energy in the form of heat, thus conserving the tissues and acting as a food.

The second paper is by Dr. Hemmeter, on the comparitive physiological effects of certain members of the Ethylic Alcoholic series (CH₂O to C₂H₁₂O), on the isolated mammalian heart, gives the result of some studies at Johns Hopkins University. The author remarks that the literature on the physiological action of alcohols is out of all proportion to the real increase of knowledge of the subject. He gives the results of different authors who have experimented with different alcohols.

Dujardin Beaumetz and Audige have published a series

of investigations on the comparative toxic properties of the alcohols. "These experiments consisted in administering varying proportions of ethylic, propylic, butylic, and amylic varying proportions dogs, the quantities in some cases being passed into the stomach, in others injected under the skin. The weight of the doses administered was in every case kept in ratio to the weight of the animal operated upon. The following conclusions are drawn from the results:

their atomic composition in a sort of mathematical order. The higher the figures representing the atomic composition, the more considerable is the toxic effect. This is equally true whether they are injected under the skin or introduced into the stomach.

2. "For the same alcohol the toxic action is greater when the dose is administered through the stouach than subcutaneously; in the latter case the toxic effect is increased

by dilution.

3. "The toxic phenomena are the same for all alcohols, are in the degree of intensity. The injuries caused follow in a progressive scale from the ethylic to the amylic alcohol. The injuries to the mucous membrane of the stomach being just as great whether the alcohols are administered subcutaneously or are ingested by the stomach. Severe congestion of the small intestines was noticed in some cases, in whichever way the alcohols had been administered; and, moreover, it was noticed that for the same alcohol, the congestion and pulmonary apoplexy were most frequent when the alcohol had been administered by the stomach."

Dogiel found from many experiments that aicohol first increased the heart's action, then diminished it, during the later stages the vaso-motor centers are found to be incapable

ot responding to stimulation.

Ringer found that all the alcohols arrest the action of the heart in the diastole. The activity of the alcoholic action increases with the complexity of the alcohol.

Three main conclusions are finally arrived at viz.

- The qualitative similarity of action of the different members of the alcoholic series.
- 2. The general quantitative relationship, viz., that as the complexity of the molecule increases, the physiological activity increases.
- 3. The probability of a further quantitative relationship, viz., that the constant chemical difference is corresponded to "by a constant physiological difference; that each additional CH₂ group increases the activity by a definite amount."

It seems certain, from observations of many, that the alcohols act as vascular dilutors; their physiological action, therefore, is not analogous to that of alkalies.

This leads me to say a few words concerning the chemistry of the alcohols. According to differences in their molecular structure as manifested by differences in their conduct when oxidized, alcohols are divided into primary, secondary, and tertiary. In studying the relation between physiological activity and chemical constitution, it would be necessary that all alcohols used should belong to the same class.

In considering the influence of alcohol on the piasma and corpuscles of the blood, it was evident that not all the alcohol mixed with the blood in circulation expenients enters the system and exerts its detrimental influence directly as alcohol. A portion may be used up or charged in coming in contact with the blood constituents. Buchheim thinks that this is owing to some vital phenomena of the blood, for after the blood has stood from eighteen to twenty hours, it can dispose of much less alcohol.

Austic gave a dog one ounce of brandy daily for ten days. The amount extracted on the tenth day was only 1.13 grams of alcohol. The eleventh day he gave the animal half an ounce of brandy and two hours later killed him and cut the body up in small pieces and put them in water for extraction. It appears that only twenty four grains of alcohol were recovered, or not more than one-fourth of the amount which had been taken a few hours before. It seems plausible, then, that when alcohol reaches the blood directly or through the

alimentary canal, a portion of it at least, and probably the largest, is changed to something else. Whatever this is we are not able to tell in the present state of our knowledge.

The direct action of alcohol on the blood constituents has been studied by Schmicdeberg. Here we are informed that blood mixed with alcohol does not give its oxygen up in the presence of a reducing agent as readily as the same blood in a pure state. As it is the role of haemoglobin to yield oxygen which has been taken up by the lungs to oxidizable blood and tissue constituents in the systemic circulation, the action of alcohol on blood just mentioned must be of great importance for processes in the living organism. A direct chemical influence of the alcohol, in addition to its action on heart and nerves, is therefore very probable; that is, providing alcohol acts on the blood inside of the body in the same way it does outside.

Herrman describes the effect of the vapor of alcohol on blood thus: The rouleaux or corpuscies break asunder, the corpuscies become spheroidal, these minute spheres become paler and paler and finally disappear entirely, while the plasma colors intensely red and separates out crystals.

According to Marvaud alcohol produces a disturbance in the diasmotic relations between the corpuscles and the serum, whereby the nutrition of the former is interfered with.

The following interesting observations were made by Jaillet and Hayem. In animals into which alcohol had rapidly penetrated from the stomach, these observers confirm an extensive alteration of the red blood corpuscles; scarcely one-third of them were intact, the remaining were partly of the mulberry type, with yellow precipitates of haemoglobin in their interior. Still others were reduced in size and deprived of their haemoglobin entirely. On injecting alcohol directly into the blood, changed and destroyed corpuscles were found, but no mulberry forms. On introduction of gradual small doses the haematoblasts and leucocytes were strikingly increased; so too the coagulability of the blood. Blood gas analysis in animals under not quite intoxicating

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doses of alcohol, showed reduction in the respiratory capacity of blood corpuscles with considerable increase of CO₂ in the blood, which latter fact Jaillet partly brings into connection with the exidation of the alcohol.

Schulz had already described the separation of the haemoglobin from the corpuscles and the coagulation of the blood on addition of alcohol, in 1841.

Lallemand, Perrin, and Drury, Paris, have observed in the blood of alcoholized animals, large quantities of oil globules floating on top after blood was drawn; these were, however, observable in the blood of the same animals after they had gotten over the effects of the alcohol. According to Baer, Magnus, Huss, and others have observed the same in the blood from the heart and large veins of persons that died in intoxication. An interesting study of the effect of alcohol on febrile animals was made by Manassein. The corpuscles of the blood of such animals are very much diminished in size by the elevated temperature. This is not the case if the animals are given alcohol, when the corpuscles become larger the longer the intoxication lasts and the more the temperature is lowered by the alcohol.

All of these observations and experiments on the influence of alcohol on the constituents of the blood justify us in concluding that in circulation experiments on the isolated heart with alcoholized blood, all of the disturbances observed in the function of the organ are "10" due primarily and exclusively to the direct action of alcohol on the heart tissue, but that the action of the alcohol on the blood itself, whereby its nutritive and oxygenating functions are impaired, should enter into consideration.

The conclusions reached were that the physiological activity increases with the complexity of the molecule, and also increases as the temperature increases; also the vapor density, the specific gravity, and the boiling point becomes higher; the ethylic series forms an exception to this rule.

It is evident from my experiments and those of Beaumetz and Duggan, that ethyl alcohol causes a break in the series,

being less hurtful than methyl. Since ethylic al-ohol is probably constantly present in minute quantities in the atmosphere, fermentation is going on in many ways and places, and as dogs probably must frequently get some little ethyl alcohol in their food, this fact has been explained theoretically by supposing that an organism can establish a special degree of tolerance of one alcohol while retaining its sensitiveness to others.

that these vissues either always contain certain quantities of animal tissues. One of the clearest investigations on this animals receiving no alcohol in their food. He concluded subject is published by Rajewski, who obtained the iodoform in minute quantities is a normal constituent of almost all by certain animals is furnished by a fact which is becomview, according to which this test indicates alcohol in traces, reaction in the distillate of fresh liver, brain, and muscles of ing more and more established, and that is, that ethyl alcohol with salivatof teetotalers. This reaction, as is perhaps well According to Millon the iodoform reaction has been obtained but also carbonydrates, albumen, fibrin, casein, and glue proof of the existence of ethyl alcohoi. Binz holds a similar ethyl alcohol, or that the iodoform test is not a sufficient scope by its hexagonal crystals. tion of jodoform, which can be recognized under the micre tint, and the minutest trace of alcohol will cause the formathen just enough sodium hydroxide is added to make the iodine in jodide of potassium to the solution to be examined; known, is carried out by adding a few drops of a solution of about 602. On cooling, the solution becomes a yellowish yellow color disappear; then the mixture is heated up to A further explanation of the tolerance of ethylic alcohol

Bechamp extracted o.8 grain of alcohol from a piece of meat weighing six pounds. He also found alcohol in a sheep's liver soon after death, and also in the human brain; he also found alcohol to be a normal constituent of fresh milk. He has developed a theory of fermentations, which are termed microzymes. These are called the physiologically

active parts of cells of animal tissues. They are the granular masses that have the power of enduring fermentation, like other cellular ferments, but differ in quality and energy of action according to the part of the organism from which they are taken. He supposes them to be the center of all chemical changes of living and dead tissues, and to belong to the animal organism as integral parts, without having to get into it from the air or other medium; they are even in perfect health capable of causing all those processes intra vitam which are commonly known as fermentations, and post mortan all those metamophoses which are comprised under the phenomena of decomposition. All soluble ferments are products or secretions of microzymes.

are attached are so enlarged that the valves are no longer eccentrically, whereby the fibrous rings to which the valves they are caused by the swelling and expanding of the heart murs are undoubtedly on both sides of the heart. can hear plainly so-called regurgitant murmurs. These mur-An interesting matter in this connection is a fact which I comes less and less, and the heart pumps around less blood. is, that by placing a stethoscope directly on the organ one and the less so the longer the alcohol has been administered. panded and swollen is a great extent under alcohol, which have observed in several eases in which the heart was exthe difference between diastolic and systolic capacity bepericardium prevents this excessive expansion in diastole, sive diastole as long as the heart can swell. As soon as the cavity is not obliterated at the end of the systolic contraction, accompanied by an imperfect systole, so that the ventricular This incomplete systelle is compensated for by a more extengreat dilation of the isolated heart poisoned by ethyl alcohol, obvious phenomenon as pointed out by Prof. Martin, is the system are also acted upon to a certain extent. The most tissue. It is possible that the blood-vessels of the coronary main effect of the drug is exerted upon the cardiac muscular heart, was discussed, and the conclusion reached that the ganglia, the blood-vessels, or on the muscular tissue of the The question whether the alcohol acted on the nerves and Perhaps

brige enough to cover them, and there are tricuspid and mitral insufficiency and regurgitation. In all my experiments small hemorrhages into the cardiac tissue were observed; these were very considerable with the higher alcohols. It was thought that they were the direct result of the action of the alcohols; but by injecting considerable quantities of alcohol into the jugular veins of dogs, I could in no instance produce them on the heart.

IS NARCOTISM DRUNKENNESS?

Are the results of the excessive use of morphine drunkenness? This was the question recently before the Illinois

Supreme Court in an action tor divorce.

As is well known, the Illinois statutes are not very strict in the matter of divorce, and ever since 1827, habitual drunkenness for two years has been a ground for absolute divorce, and ever since 1827, habitual drunkenness for two years has been a ground for absolute divorce. In the case at bar, there was no evidence showing that the defendant ever used intoxicating liquors to excess, but evidence was offered and received to the effect that for several dence was offered and received to the effect that for several years he had been in the habit of using hypodermic injections years he had been in the habit of using hypodermic injections and in some in his arms and legs. It was also shown that the effects of morphine thus administered were very similar and in some respects apparently identical, with those produced by the excessive use of intoxicating liquors. Upon this similarity of effects the complainant expected to obtain the divorce.

The appellate court decided, after consulting the dictionaries, that she could not get any relief from her conjugal troubles. The said drunkenness is "ebriety, inebriation, intoxication; all words nearly synonymous, and all expressive of that state or condition which inevitably follows from taking into the body, by swallowing or drinking, excessive quantities of such liquors." As hypodermic injections were not known in 1827, when the statute was passed, the court said, the Legislature could not possibly have had in mind the use of morphine, though it was not mentioned.— Timus and

EFFECTS OF ALCOHOL ON THE NERVE CENTERS.

BY T. LAUDER BRUNTON, M.D.

when the action of the members of this group is pushed to and respiratory centers, and the heart, all become paralyzed and stable centers are affected last. The perceptive and most highly organized centers are affected first, while the velopment are affected, er, as Hughlings Jackson puts it the motor ganglia, the reflex centers of the cord, the vaso-motor lowest, most simple, and at the same time most automatic are the latest to be developed, and which not only raise man stroying first the functional activity of the highest ideational above the animals but raise individual men above their felnerve centers within the body. They appear to act upon its utmost extremity. lows. As their action increases nerve centers of a lower deand volitional centers in the cerebrum, those centers which those centers in the inverse order of their development, de ing, to a greater or less extent, the excitability of all the longing to the alcoholic series possess the power of abolishlivered in London, will be of especial interest to our readers: "It is probable, as I have said, that all the substances be-The following extract from the Gronian lectures, de-

Different Action of the Members of the Alcoholic Group.
But they are not all rendered inactive in the same order by each member of the group. On this account some members are useful as hypnotics, simply inducing sleep as one of the first results of their action, although if the dose be large the sleep may pass into complete unconsciousness and anxithesia with loss of reflex action.

For the production of prolonged sleep we require a substance whose action will be slight and at the same time prolonged. But for anæsthesia we require a substance which will act rapidly and powerfully, but will be quickly climin-

substances which have a heavy molecule, and are either liquid those which, like ether, enter the lungs as vapor and are such substances being slow we cannot at once get rid of their heavy liquids like paraldehyde, or solids like chloral hydrate, weight, and are either gases or volatile liquids. Although lower members of the series which have a light molecular and being absorbed into the blood, continue to act for a or solid in form, so that they may be given by the mouth discontinued. ated and cease to act very shortly after its administration is effects of excess in the same way as we can in the case of as such would be very dangerous, for the line between their will act as anaesthetics when given in large doses, yet their use tory centers, or heart, is very narrow, and might easily be length of time. readily eliminated. It will, therefore, be convenient to concrossed by very slight excess in dose. The elimination of ancesthetic action and their paralyzing action on the respiraalthough they may belong to the same chemical group. sider the action of hypnotics and anaesthetics separately We therefore look for hypnotics among the We look for our anaesthetics amongst the

thetics, such as nitrogen, nitrous oxide, and possibly marsh render it incapable of maintaining the functional activity of consider the mode in which they both act on nervous tissue Narous Tissue - But it may nevertheless be advisable to Third, that they affect the nervous tissue itself. Some anes the nerve cells. Second, that they alter the circulation three: First, that they alter the blood in such a way as to at this time. excluding oxygen from the lungs, while the movements of produce anaesthesia by a sort of process of suffocation, by gas and some of the other hydrides of the alcohol series respiration continue to go on. The reason for supposing and the anaesthesia does not come on when the nitrous oxide on at the moment when the blood becomes quite venous that in an animal breathing nitrous oxide, anæsthesia comes that these substances simply act by exclusion of air, is chiefly Modification of Action of Anasthetics and Hypnotics in We may divide the theories of action into

is sufficiently mixed with air. But for my own part I am inclined to believe that the nitrous oxide has an action of its own on the nerverenters and does not simply exclude oxygen from the blood. For white we might regard the anasthesia produced by this gas as simply due to suffocation, we cannot explain its carous stimulant action in this way, the symptoms it produces when mixed with air having nothing in common with those of suffocation.

"Sall Frig;"—The second theory that the annesthetic action of drugs is due to their arresting or diminishing circulation in the nerve centers has been disproved in regard to the most important an esthetics by a very simple experiment. When all the blood has been removed from a frog and its vessels have been washed out with a weak saline solution, it still remains active for a certain time; but if such a frog be placed in an atmosphere saturated with ehloroform or ether it becomes narcotized.

Effect of Circulation.— But while the action of ancesthet, ics cannot be wholly explained by exchanges in the circulation, they are very important, as we shall afterwards find in regard to the action of hypnotics, and anasthesia has actually been induced and operations performed by suddenly checking the circulation in the brain.

We now come to the third theory, that annesthetics affect the nervous tissue itself. The experiment already mentioned of ancesthetizing a "salt frog" with chleroform shows conclusively that anresthesia is due to the action of the chloroform on the brain.

Same Congrelation—The nature of this action has been supposed by Henrich Ranke to consist an a transient fixation of the albuminous molecules in the ganglion cells of the cerebral cortex, as well as in the nervous and muscular fibers. Claude Bernard and Binz have expressed similar views, and Bernard has used the term "semi-congulation" to express the condition which occurs in the nervo cells, and probably this is nearly correct. The condition is, however, so transient that it might perhaps be better compared to the tetanic con-

traction of muscle which quickly ceases when the irritant is taken away. In all probability the condition of auresthesia and of tetanus are both to be regarded as the first stages of congulation, and if sufficiently probaged complete congulation, and death of the tissue will occur. A curious likeness indeed was found by Ranke between the action of ancesthetics on the brain and on muscles, for they congulate the albuminous substances extracted from both, and when injected into an artery they produce rigor mortis in the muscles it sumbles.

Alluminus Substances—In order to get a chemical basis for the action of alcoholic substances on nervous structures it seemed to me advisable to ascertain the action of such substances on albuminous bedies. Dr. Sidney Martin and I have therefore commended a research on this subject, and although it is far from complete we have already obtained the interesting result that while the lower alcohols, methyl, ethyl, and propyl alcohols, cougulate albumen almost completely, the butyl alcohols have less effect, and any precipitate they may produce is soluble, while the higher alcohols—amyl and heptyl—do not cougulate at all.

Chemical Affinity between Narcolles and Nercolles Issues.— There can. I think, be little doubt that there is an affinity between many, perhaps all, the bodies belonging to the alcoholic series and the substances of which the nerve centers are composed. In all probability they enter into a loose combination with the nervous tissues for a time and interfere with the process of oxidation and reduction on which its activity depends. As Binz has well expressed it, morphine, chloral, ether, and chloroform possess a strong affinity for the substance of the cerebral-cortex in man. It combined for a while with the hypnotics carried to it by the blood, and by the resulting alteration in its tissue change, "lessening of the dissociation of the living matter," in Pfluger's sense, it becomes unable to perform the functions of the waking condition.

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toplusm at the same time that the changed reaction lessens cells, such as angelia or infusioria, are treated with a very action of the cell, or the fluid surrounding it. When treequivaction of the protophasm in the cells of pervous centers servation we can see that if any otheries and hypnotics cause lesses oxidation in the brain cells by contracting the proalkalinity by the products of the tissue waste may tend to be alkaloids, like morphine, but by a mere change in the retional activity. Such a contraction might be caused not only they will thus lessen exidation and tend to diminish juncwhite thank corpuscies. ation which reminded him of that caused by quining in the morphine produces in the ecils of the nerve centers an aftertheir afanity for davegen. weak next they souther and with a weak alkali they swell But Binz has also policed another condition, namely, that It therefore seems probable that more diminution of Referring again to Ehrlich's ob-

and therefore they cannot be employed as aniesthetics, but and when combined with alkalies they tend greatly to increase nevertheless they tend to exert a similar action in mammais ters of mammals in the same way as with those of the trog, blood they cannot be brought in contact with the nerve cenrespiratory passives and the alteration they occasion in the ing to binz. Of account of the local irritant effect upon the haled by a trog, gause paralysis of the nerve centers accordnotic action. The fumes of chlorine, bromine, or jodine, inmires lodine, ozene, and nitrites have all a more or less hypaccording to line, this accually occurs, and chloring and brofire to have a hymotic or even an anasthetic action, crease the formation of acid in the nerve cells ought theretheir amosthetic action. The presence of any substance when will tend to in-

halogens, chlorine, bromine, and todine appears to increase much smaller extent, in the muscles, and the presence of lation which leads to anaesthesia occurs also, though to a tioned that the same process of contraction or partial coacu-. lettien of Halogous on Muscle -- But I have stready men-

> also to affect muscle, and more especially the heart, in a the alkyls, although they are more rapid anacticities tend greater degree than those compounds from which they are does on the nerve centers. the effect of an alkyl upon the muscles even more than it montas. larly jodine and bromine, with ameronia or compound amto be produced by combination of the halogens, and particuin the limbs and the heart, was noticed by Cash and myself A similar tendency to paralyze muscular fiber, both Thus, the haloid combination of

choice of substances practically useful as aniesthetics from alyze the heart. All ancesthetics tend to paralyze the nervous to be safe they should not have any marked tendency to paramong the innumerable alcoholic groups is limited. In order amesthetic power and renders them more convenient. Our risk attending their use, but at the same time increases their the halogens into anæsthetics therefore tends to increase the system, beginning with the highest and most volitional cenmatic centers in the medulla oblongata. Hence, if they are been either destroyed of sufficiently eliminated from the tated artificially, and the blood can thus be kept arrated and center and stop its movements; but these can be readily imipushed far enough, they will all paralyze the resolutatory ters in the cerebrum and ending with the lowest or mose autostimulation may help the heart to make a few feeble beats, stroyed, and the processes of life are arrested. Mechanical respiratory center to allow it to regain its activity. When the tissues supplied with oxygen until the anasthetic has and if artificial respiration be kept up actively so that blood ceases. the heart stops the supply of oxygen to the tissues entirely anasthetics which tend to enfeeble the heart are the most more dangerous than stoppage of the respiration, and those its activity. Nevertheless, stoppage of the heart is much charged with oxygen reaches the left ventricle it may resume dangerous. Halogen Compounds as Amesthelies .- The introduction of The anaesthetic is not entirely eliminated nor de-The action of alcohol as a soporific is widely

known. The common use of spirits at night to bring on sleep suggest the action of some of the alcohols in the higher zones. The narcotic power of alcohols as we ascend in the series, and the sopor induced by them, is also of longer continuance. In a minute study of the alcohols the author concluded that paraldehyde was the most useful of the alcoholic narcotics, for the reason that it did not depress the heart's action, nor does not leave any special discomfort the next day.

TOBACCO AMBLYOPIA

Dr. Connor of Detroit, has lately published an excellent paper on this subject, from which we make the following interesting selections:

After giving the history of a number of cases he says:

"These cases have the following common features:
"I. The patients were great smokers and total abstain-

"2 They suffered from a great and comparatively rapid loss of sight not remedied by glasses, and not due to exter-

73. The ophthalmoscopic changes were negative aside from a diminution in the size of the central retinal arteries.

mal changes.

being readily recognized throughout the rest of the field of twision. This scotoma was not seen by the patient as a dark spot, and in this regard differs from the scotoma due to discase of the outer layers of the retina.

worry and impoverished nutrition from the loss of appetite, etc., preceding the inception of the first symptom of failing sight.

"5. The fields of vision aside from the scotomata were normal.

7. The stopping of the tobacco was followed by a more or less rapid recovery of distinct vision throughout the entire fields of vision.

"From various sources I have collected twenty-seven cases in each of which tobacco was used to excess, but no alcohol, and each of which presented substantially the same symptoms as those already reported.

"I have never met with but one case of amblyopia in a drinker of alcohol who did not use tobacco.

"In this case the amblyopia was not central, nor was it regular in the two eyes. From the literature at my disposal I have been unable to find a single case of central amblyopia in a non-user of tobacco, and yet a drinker of alcohol. Perhaps such cases have been observed, but I could not find them fully and accurately recorded

"Hence, estimating the cases of central amblyopia as induced by the abuse of alcohol alone, or by the abuse of to-bacco alone, it would seem that tobacco induced all and alcohol according to the contract of the contract of the contract of the case.

"But the majority of cases of central amblyopia occur among those who use both alcchol and tobacco to excess. Of these I have been able to collect the records of some 700 cases, made with more or less fullness. It is held by many ophthalmologists that the central amblyopia is induced by the combined action of these two drugs. Yet as we have already seen, tobacco alone will, and alcohol alone has not been shown to, induce the symptoms under conditions described. Farther, in these mixed cases recovery from the amblyopia has followed abstinence from tobacto while the intemperate use of alcohol has been continued. 1st. men are exposed to greater vicissitudes than women; 2d, they indulge mere generally and intemperately in free living

"2. It is urged also that other morbid states may induce a similar state of central amblyopia, as exposure to excessively bright light, etc.

"3. If tobacco will produce this state of the optic nerve, why is it that out of millions of smokers and smokers to excess, only a few hundreds of cases of central amblyopia are observed?

"4. Again, it is urged that sight does not always grow worse even if the use of the tobacco be continued.

agent in all the mixed cases. peculiar defect of sight, and that the alcohol is the effective It is also claimed that alcohol will produce this

to tobacco; for, as we have seen, believing in the existence of a central amblyopia due entirely "But, per contra, it seems that we have good reasons for

because men smoke more than women, It occurs more frequently in men than in women.

of alcohol, and does not occur in those who use alcohol to the exclusion of fobacco. -It occurs in those who use tobacco to the exclusion

is stopped. 3. It gradually disappears when the use of the tobacco

tinued, is followed by an improvement in excess, the stoppage of the tobacco, the alcohol being con-4. In cases in which both tobacco and alcohol are used the sight.

pears when the tobacco is stopped. ive in their use of tobacco, and either diminishes or disap-In diabetics it occurs only in those who are excess-

the seat of its lesion "Granting the existence of a tobacco amblyopia, where is

frequent toxic origin of the amblyopha; and its curative retina or optic nerve; the nature of the color blindness; the the absence generally of any pathological changes in the cal distribution and equal degrees of sectomata in both eyes; symptoms. In support of this view is firged: the symmetriheld that there must be a central disturbance to explain the "Two views in general merit attention 1. Von Graefe

layers of nerve fibers. . . . the optic nerve or some anomaly in the blood supply to the tral scotoma was caused by a partial neuritis or atrophy of In opposition to this Leber believed that the cen-

that tobacco amblyopia was essentially a functional disorder. Possibly this functional disorder may induce an organic change, but more observations are needed to establish this "From the present state of our knowledge it would seem

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may induce the interstitial changes described, or these may opia must be regarded as an idiosyncrasy. be due to quite different causes. the circulation of the optic nerves. Possibly the tobacco It seems certain that it induces its effects through In all cases tobacco ambly-

use of tobacco. All the cases I have observed either entirely recovered or greatly improved. the patient can be induced to stop or suitably diminish the "The prognosis of tobacco amblyopia is good provided

" Questions upon which more light is desired

central amblyopia? "I. What influence has alcohol upon the causation of

in order to effect a cure of tobacco amblyopia? Is it necessary to entirely suspend the use of tobacco

Does tobacco produce atrophy of the optic disc?

amblyopia and retro-bulbar neuritis? "5. What relationship exists between diabetes and to-What relationship, if any, exists between tobacco

bacco amblyopia "We have endeavored to show that-

in the optic nerves, and may induce central amblyopia. Tobacco has an especial affinity for a central tract

central amblyopia symmetrical in both eyes, in strictly nonusers of tobacco. No other single agent has been shown to induce

venery, starvation, mental shock, or distress, etc. precipitate an attack, as abuse of alcohol, diabetes, excessive Some special condition or conditions are required to

to optic nerve degeneration, and to these the use of tobacco is especially injurious. Some individuals seem to have an especial tendency

sudden development, by the existence of central scotoma for color in both eyes without limitation of the fields of vision, rence only in tobacco smokers. by the absence of any defect of refraction or recognizable lesion to account for the sudden blindness, and by its occur-Clinically central amblyopia is recognized by its

"6. Pathologically, during at least its earlier stages, it consists of an anæmia of the central portions of the optic nerves. Possibly this may, after a longer or shorter time, induce organic disease, but this has not yet been shown in a case of pure tobacco amblyopia.

"Its prognosis is good during the earlier stages at least if properly managed.

"7. Its treatment consists principally in withdrawing the tobacco. Other measures may be profitably employed, that promote the local nutrition of the eye and the system in general."

DISEASE OF INEBRIETY AND ITS REMEDY.

A prominent Catholic elergyman, Rev. B. O. Boyland, has lately written a very sig ifficant paper on the above topic, in the GTA. News, The paper shows the drift of advanced thought in this Church, and we make the following suggestive selections:

alcoholic drink contracts the disease of drunkenness. When this disease is once rooted in the system it cannot be cured by mere advice or encouragement any more than you can cure other diseases by mere advice or encouragement. We do not say to the rheumatic, "Have patience and courage, my good fellow, and you will soon be well," but we recommend hint to use the best means the best experienced physician's remedies fail, we advice him to trust in God, and perhaps he may be cured by a miracle. Hence, disease of the body is cured by one of two ways, to wit, by medicine or by miracle.

Now, in the ordinary course of nature, God never intervenes, and common sense as well as the teachings of our Church should move r.s., when afflicted by disease, to use tire best natural remedies.

I wish to draw attention to the fact (a) that INEBRIETY IS DISEASE, and (b) to rouse the feelings of such as love for

Christ's sake even the most degraded of humanity to the necessity of establishing sanitariums for the cure of this terrible disease. My position is this—First, the State should provide such places for those that come under its control, particularly through the courts. Instead of sending the inebriate to jail the State should send him to an inebriate hospital, and keep him there until the nerves and brain soil affected by alcohol shall be perfectly cured.

Second, we Catholics should endeavor to emulate the liberality, zeal, and charity of our dissenting brethren who have magnificent private homes and sanitariums located in the most healthful and cheery positions that could be desired, where respectable people can go privately and without any danger of losing their good name, and be cared for under the most skillful nurses and physicians. What a boon would it not be for thousands of every rank of life!

How many wrecks would have been prevented in the past and how many could be in the future if we had proper sanitariums, situated in cheerful surroundings, with all the comforts that books and cheerful companions can give, with sufficient freedom to satisfy the reasonable man and sufficient restraint to insure absolute security from the accursed bowl, with all the best appliances and exercises for the building up of the physical man.

ARSENIC INEBRIATES.

In the highlands of Styria the prevalence of inebriety is limited, if not directly counteracted, by the strange habit of arsenic eating. Beginning with a minimum quantity, the devotees of the baneful drug gradually accustora their organism to a dose that would prove promptly fatal to any non-habitué, and persist in excusing their practice by all sorts of sophisms. Arsenic counteracts the raw air of the bleak uplands, it enables travelers to resist the fatigues of mountainclimbing, it stimulates digestion, etc., etc.

"South of this city" (Gratz), writes an Austrian physi-

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occupation as if nothing had happened." - Dr. Osward. poison-eater by a certain moody appearance, contrasting with longevity. often by white haired patriarchs of seventy or eighty years, are families where the drug is used by every male adult, and ence of his tonic, and for hours after, can follow his usual next forty-eight hours, an arsenic cater, under the full influmad revels of a single night. And while one such night drinkers often waste the wages of a week's hard work in the use up a florin's worth in the course of a year, while brandy couple of months. Very few inveterate poison-eaters can white arsenic will keep a whole family in stimulants for a At retail rates, half a florin (twenty-five cents) worth his financial circumstances apt to be imperiled by the habit mental; he can keep his temper in a lively controversy and tion, but he does not become quarrelsome or maudlin-sentihabitual moodiness gives way to a more buoyant dispose use of the drug often involves serious digestive disorders. It is another characteristic symptom, and, in large doses, the general. A sallow, though clear and wax-like, complexion, strangely with the jovial disposition of the highlanders in for it must be conceded that the habit is not incompatible cian. "arsenic caters are found in nearly every village; there incapacitates or indisposes the toper for work during the the clearness of his intellect is not visibly affected. Nor are must be admitted, however, that arsenic never produces anypoison-eater, directly after a large dose, feels elated: his thing like intoxication in the uglier sense of the word. As a rule, I have been able to recognize a

The Fournal of Hirality comes in a new dress and has a larger, stronger table of contents. Dr. Burnett still retains the head, and the future of this subject widens each year. This journal has no rivals, and all alone it can sail out into this undiscovered country and bring back rich stores of fact. Our best wishes go with it and its talented editor.

DRINKS, DRINKERS, AND DRINKING; OR THE LAW AND HISTORY OF INTOXICATING LIQUORS. By R. Vashon Rogers, Jr., of Osgood Hall, Barrister-at-Law. H. B. Parsons & Co.: Albany,

great variety of exceedingly interesting facts, bearing on the the history of drink; On Drunkenness, Dipsomania, and hol, with references, so the reader can verify them and study intoxicants contains many historical facts on the use of alcolaw and history of drink and drinkers. the subject more in detail. The succeeding chapters are on ance of Inchriates, Marriage of Inchiaces, Rights of Inc-Inchriates, Wills of Inchriates, Deeds of Inchriates, Insur-Delirium tremens; Legal Definitions—on Contracts of ble addition to the library of specialists, as containing many Remedies of Inebriates, Statute Lawton Inebriates. Although briates, Wrongs of Inebriates, Crimes of Inebriates, Civil facts not obtainable from other sources. Send to the publisher published several years ago, this little work will form a valua-This little work of nearly three hundred pages groups a The first chapter on

THE INTERNATIONAL MEDICAL ANNUAL AND PRACTITIONER'S INDEX FOR 1890. Edited by PRACTITIONER'S INDEX FOR 1890. Edited by P. W. Williams, M.D., Secretary of Staff, assisted by a corps of thirty-six collaborators—European and Americorps of thirty-six collaborators—European and Americorps of thirty-six collaborators—European and American—specialists in their several departments. 600 can—specialists in their several departments. 600 can—specialists in their several departments. 600 can—specialists in their several departments. 600 isher, 5 Cooper Union, New York

The eighth yearly issue of this handy reference one-volume manual is at hand. In its Alphabetical Index of New Remedies and its Dictionary of New Treatment, it richly deserves and perpetuates the well-earned reputation of its predecessors. In this volume its corps of department editors has been largely increased, and important papers upon Thermo-Therapeutics, Electro-Therapeutics, Sanitary Science in city and country, and the Medical Examiner in Life

Editorial.

Insurance, are features of special interest. While there is a generous increase in size and material, the price remains the same, \$2.75.

INTERNATIONAL ALCOHOL CONGRESS.

combatting the evils of alcoholism. attained by different countries and by the main object of the Congress to throw light on the success ples, etc., illustrative of the international movement. It is conducted in English, German, and French. ble, of all the journals, books, statistical reports, drink samof the Congress an exhibition, as comprehensive as possiin contemplation to combine with the deligerative programme tuted for 1889 on the ground that the Pages Exhibition made beverages as weapons in the warfare against alcoholism. It is enous tribes by the spirit trade; (5) substitutes for alcoholic the upbringing of the young; (4) the deferioration of indig-Gothenburg system; (3) the alcohol quastion in relation to in lessening the evils of alcoholism; (2) the results of the gathering. The programme includes the following subjects: the latter year less favorable for a no the presidency of Dr. Forel at Zurich, and 1890 was substital was made by the permanent committee which sits under 5th of the present year. The choice of the Norwegian capidrinks, and meetings will be held from September 3d to the gress convened for the suppression of the abuse of alcoholic Christiania is to be the seat of the next International Con-The means which have proved so successful in Norway The discussions will be different means in merously attended

The military commission of the Abstrian army have established a law that the offense of intoxication should be punished the first time by a public reprimand. The second offense by several days' imprisonment in the guard-house. The third offense is evidence that the victim is suffering from a chronic disease, and he is placed under constant surveilance. His pay is taken out of his hands, and every means used to prevent him from getting money to secure spirits.

Editorial

AUTO-INTOXICATIONS IN INEBRIEFY

In some cases of inebriety, after the subsidence of the acute symptoms, and the removal of alcohol, distinct periods of great prostration and collapse come on. These periods last from one to several days, and are often marked by great enfeeblement of the heart, fever, coated tongue, depression, or extreme irritation of mind, to almost delirium. The breath is offensive, and the bowels are generally constipated at first, and later diarrhea follows. These attacks are supposed to follow the withdrawal of spirits, and point to some special nerve failure or collapse, and demand active stimulation. In most cases the desire for spirits is very intense, and the patient is filled with a dread of death if he cannot procure them.

Practically, the effect of spirits seems to lengthen out the collapse; while transient relief follows, the prostration continues. These attacks appear while the persons are taking spirits, and in some cases follow the subsidence of gastritis, or the partial recovery from the immediate stupor of intoxication. The tonic effect of a strong saline cathartic is so marked as to suggest some cause other than nerve prostration from exhaustion.

Another fact quite significant is, that these cases are usually gourmands, and have the delusion that a very hearty meal will prevent excessive drinking, hence eat inordinately at every opportunity, and particularly when suffering from the drink impulse. A common illustration is that of a periodical drinker, who, when the drink impulse comes on, eats voraciously for a day or more, then suffers from a distinct period of extreme prostration, ending in diarrheea and recovery. In another case the patient has been using spirits freely, and eating inordinately at all times and places. Soon

after admission he is seized with these collapses, and the impression is strong that they arise solely from the withdrawal of spirits. Practically, a large dose of calomel and some salines act as a stimulant more promptly than any other remedy. The offensive exhalations and precordial distress are also common symptoms, and in some cases a very marked stupor, or irritative delirium, are associated with it.

tion and digestion. that alcohor has a special degenerative incluence over nutridigestion is perverted or retarded, and putrefactive gases are symptoms all disappear in a few days. The most rational formed and absorbed into the circulation causing these pecuinference is that some form of auto-intoxication exists. That cathartics will be given with marked good results, and the begins. If the idea of congestion governs the diagnosis, liar toxic symptoms. In support of this inference is the fact continues, and a low form of fever comes on. After a time is nerve failure, temperary relief follows, but the prostration growing worse from day to day, until the patient goes to bed profuse perspiration and diarrhea follows, then recovery night's sleep; in others they begin and gradually accumulate, In some of these cases these symptoms come on after a If spirits are given, under the impression that it

Or. Kerr, in his work on Inebriety, writes: "The effects of alcohol on the body is one continuous chain of structural changes, and tissue degenerations, capillary paralysis, circulatory tumults, vascular atheroma, cellular decay, membranous thickening, cerebial congestion, and neuralgian proliferation. It is clear from this that the blood will be depraved and loaded with poisonous matters, and auto-intoxication would follow naturally. Maly, a recent writer on this subject, insists that auto-intoxication comes most frequently from disorder of pancreatic digestion. The ptomaines are the special toxic substances which are present. This occurs when the pancreatic digestion is unduly prolonged, and patrefication follows which extends to the whole process of

of these cases. Many cases of inchricty are associated with exhaled and discharged from the bowels confirm this view treatment free catharsis and diaphoresis. Sudden prostrapation and diarrheea. Such cases may be suspected of automands and epicures, and always suffer from alternate constiexcessive and irregular use of food. They are called gour digestion along the intestines. The offensive gases that are always lessened by prefuse sweating, as in a Turkish bath alcohol is rarely increased by a free cathartic action, and shows clearly that the prostration from the removal of and should have similar treatment. Clinical experience cases may come from these very obscure toxic substances, treatment. Narcotism paralysis, and convulsions in these tion and mental disturbance should receive the same intoxications, and should receive from the beginning of among incbriates are very likely to exist, and should be susattention of all practical men in this field. Auto-intoxications certain number of cases, and should receive the most careful intoxicated or suffering from delirium is followed by the best results. This method of treatment promises much in a pected and looked for in most cases. The practice at sea of purging all persons who come on board

COFFEE INEBRIETY

Dr. Menull of Berlin, Prussia, has lately published a clinical study of this neurosis, which is growing rapidly in this country. His observations were confined to the women of the working population in and about Essen. He found large numbers of women consumed over a pound a week, and some men drank considerable more, besides beer and wine. The leading symptoms were profound depression of spirits, and frequent headaches, with insommia. A strong dose of coffee would relieve this, for a time, then it would return. The muscles would become weak and trembling, and the hands would tremble when at rest. An increasing aversion to labor and any steady work was noticeable. The

a time turns to alcohol and becomes a constant drinker. In holic cases have an early history of excessive use of coffee but of the body is the starting point for inflammations of are obscure and largely unknown. present in all cases. In this country the coffee drinker after and agony settles over the countenance, only relieved by an erysipelatous character. Melancholy and hysteria are are more common among the neurasthenics and are more other cases opium is taken as a substitute. Collec inebriates stantly grow worse, and are only relieved by the large quanconcealed because the effects of excessive doses of coffee tincture was used. The victims suffer so seriously that they pepsia of an extreme nervous type was also present. very wide field for future study opens up in this direction. and are always more degenerate and difficult to treat. low, and the hands and feet cold, and an expression of dread taken only temporary relief follows. tuties of coffee, generally of the iniusion. rosacea was common in these cases. These symptoms conheavy feeling in the precordial region were present. dure not abundon it for fear of death. Where brandy is heart's action was rapid, irregular, and palpitations and a actions are likely to appear any time. An injury of any ag strong doses of coffee. In all these cases, acute in-Many opium and alco-The face becomes sal-In some cases the Acute

women arged with contactous carnestness the power of the eased victims that passed before him (some of them really times before), was a scene almost barbaric in its stupidity and severity and harsbness of the judge, and the depressed, dismen and women were sentenced to jail for excessive dranking a police court, and while this meeting was in progress, ten tion to be reached by party politics. misconception of the victims and the object of the law. and erimes associated with and springing from it. plodge and moral subsion, and the need of absolute prohibi-The hall was crowded to overflowing, eloquent men and One square away was

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the inchriate and his malady. These two scenes represent equally barbaric and fatal in its propound misconception of the moral and political efforts, and the legal means to prevent and cure the inebriate. in the hall all the interest and nebulous eloquence was

weakened, and fatty degeneration of various degrees is presether or chloroform for anæschesia. In all cases the heart is because of the inability of the heart to recover, and the ten ent Any substance which lowers its action is perilous, such cases artificial respiration may prevent death is promptly extensive organic changes have taken place in the brain and and sudden paralysis is likely to appear with the first inhala. dency to paralysis. But drinkers have always fatty heart used. In all cases a sudden checking in respiration and and respiration steps before the action of the heart. In spinal cord, paralysis of the respiratory centers occurs first tion of chlorofe.m. In chronic cases of inebricty, where signal of the gravest importance heart beat where ether or chloroform are used is a danger Inebriates are always dangerous subjects to administer

causes and remedy of inchriety. But when physicians who constantly for publication, the authors of which are unacreply personally to the many excellent clergymen and phiconception of scientific study of the inebriate. We always quainted with our work and journal and have a very limited are supposed to have some scientific training send to this the many papers and letters of appeal and advice sent us tion except that they were made by the great Dr. So-and-So, degmatic conclusions from statements that have no foundajournal papers half moral and religious, reaching the most lanthropists who urge us to publish this or that view of the we put them promptly in the waste basket. Dr. ____of New York, of Philadelphia, of Boston, on Chicago, may be very We have always deplored the necessity of some notice of

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of diseases, and be absolutely ignorant of inebriety. Unsensical. Some random statements that appear to be facts statements of facts on which they are based, are nonsense britunately, some of these eminent men assume to have a subject published by temperance moralists, and many of the are often nothing but "fog banks." A few facts and minute dogmatic conclusions, are also nonand statements can have no value only as they approach the ments of some clergymen. full knowledge of the causes and remedies of inebricty, drian conflagration, and leave the world better and the prog papers coming to this office, could all vanish in some Alexan the drink problem and the means of cure and prevention, ing and knowledge of the subject. and strong conclusions from them, are equally obscured realm of scientific accuracy. leaders of the professions discuss inebriety, all their views mostly evolved from their inner consciousness and the state eminent in the profession, and have a very wide knowledge ress of truth higher up in the development of the race. -- 's opinion is of no value unless he has special train-While we are pleased to see the Conclusions alone, with no The isms which surround The literature of the

thing fixed in the present. Originality must be shunned because it means change and mental identity with party, sect, and theories of the hour. accept the current theories of to-day, and harry ourselves in tion of present thoughts and beliefs. up the current philosophy, theology, and medical practice of with a storm of indignation and opposition, because it breaks mental effort to readjust ourselves to the new conditions. the common customs and faiths of the crowds, and hide our layman accepts conclusions as final and beyond question, in some fixed line of thought. to day. The tendency of the mind, like the body, is to settle This is the spirit of humanity to oppose unlikeness to any The great masses of humanity dread charge and innova-Thus every new truth is greeted The medical man, like the It is so much easier to

> advance; they condemn our work, condemn our journal condemn our motives and facts. Such men are clearly great eration, and the creatures of the hour, whose life and death spirit and purposes of life are blind leaders of the blind opponents of all truth, and without any conception of the Such men are violent opponents and denounce every new and is alarmed at any new views or new conceptions of truth primitive lines of growth; a mere reflection of the past genare of little interest in the evolution of mankind. They are mental types of reversion that live along the most

MORTALITY OF DEALERS AND USERS OF ALCOHOL.

twenty-five years of age. hundred males, of whom over thirteen thousand were over facture and handle wine, beer, and all forms of alcoholic returns of the mortality and longevity of persons who manuresults of this study: Baer of Berlin has made a study of some official These studies embrace fourteen thousand and two The following tables are the

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CAUSES OF DEATH AMONG THE CONSTANT USERS AND VENDERS OF ALCOHOL

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3	o •			114 **	3 per cent	alceholic venders.	Marting of

Clinical Notes and Comments

LUNIER PRIZE.

Authors are expected to follow out the lines of inquiry suggested in Lunier's work "on alcoholisms." means of prevention, or means to limit or lessen its effects? consequences of herediary alcoholism, and what are the best of the best essay on the following questions: What are the francs, to be called the Lunier prize, to be given to the author holic beverages have received from Mrs. Lunier one thousand The French temperance society against the use of alco-

on this topic that have appeared before January 1, 1890, The society will accept parts of printed works, as pamphlets therapeutic means, for prevention and restoration of inebriety, pete for the prize: All manuscripts should be received before associated with what has been written since this date, to comwishes it to embrace all the questions of moral, social, and secretary general of the French temperance society, 161 rue December 31, 1890, and should be addressed, Dr. Motet The society does not limit this study and research, but de Charonne, Paris, France.

ENCOURAGING SCIENCE.

should write to C. Smith Boynton, M.D., Secretary of the Association, Burlington, Vt. interested in the subject and the conditions of this prize, that are the direct cause of disease and death. stimulated great research throughout the world, and it is by Prof. Koch of the cholera germ, as the cause of cholera, discoverer of a new disease germ. The wonderful discovery son Co., the well-known chemists, will be paid to the first believed this liberal prize, offered by a house of such standnounced that a prize of \$250, given by the Wells & Richarding, will greatly assist in the detection of micro-organisms The Vermont Microscopical Association has just an-All who are

TO MEDICAL MICROSCOPISTS

by Dr. L. D. Mason, vice-president of the society, for the best original essay on "The Pathological Lesions of Chronic Cure of Inebriety," the sum of one hundred dollars is offered Alcoholism Capable of Microscopic Demonstration." In behalf of "the American Association for the Study and

isfactorily the pathological conditions which the essay conmicroscopic slides, which are to demonstrate clearly and satgraphs of the slides are desired. The essay, microscopic will be admissible. with a private motto or legend, and sent to the chairman of slides, drawings, or micro photographs, are to be marked should be excluded. The successful author will be promptly logical lesions due to chronic alcoholism? Secondly Are the committee on or before October 1, 1890. The object of tic alcoholic history, and other complications, as syphilis, these lesions peculiar or not to chronic alcoholism? The the essay will be to demonstrate. First Are there pathonotified of his success, and asked to read and demonstrate microscopic specimens should be accompanied by an authenhis essay personally or by proxy, at a regular or special author for further publication or such use as he may desire. ford, Conn), as the prize essay, and then returned to the ber of THE JOURNAL OF INEERIETY (T. D. Crothers, Hart-The following gentlemen have consented to act as a commeeting of the Medical Microscopical Society, of Brook-The essay is to be accompanied by carefully prepared The essay will then be published in the ensuing num-Conclusions resulting from experiments on animals Accurate drawings or micro-photo-

Chairman - W. H. BATES, M.D., F.R.M.S., London, Eng., (President Medical Microscopical Society, Brooklyn.) 175 Remsen Street, Brooklyn, N. Y.

WEEKS, M.D.

43 West 18th Street, New York

RICHMOND LENNON, M.D., 164 Montague Street, Brooklyn, N. Y.

BROMINE-LITHIA WATER

cases with great certainty as to the results. As the Hot near inture. clear that under any circumstances this water will become a syphilitic cases, this bromide spring of Georgia may become Springs of Arkansas is the great resort of rheumatic and been found which can be given to all nervous exhausted Our personal experience in three cases of alcoholic rheumaand the iodides would be a remedy of great value in a large popular remedy, and these springs a famous resort in the to announce in the future that at last a remedial water has tism and neuralgias is very satisfactory so far, and we hope become the most widely used of any medicinal water known. number of cases. Practically, it has more than fulfilled these retically a natural combination of the bromides with lithia promise of being a remedy of wonderful power. Theotonic and sedative, and in the army of nervous cases it gives the great resort of neurotics of all kinds. It is perfectly introduced, there are many reasons for supposing that it will expectations, and although this water has been very recently and magnesia; this is combined with lithium, strontium, and Recently an analysis has revealed the fact that it is the only fodide of magnesium. The effect of this water is both a spring known to science which contains Bromide of Potassium little hamlet called Lithia Springs, in Douglass Co., Georgia A fine Lithia spring has been known for some time at a

"Medico-Legal Significance of Facts Common to Insanity and Incbricty; by T. L. Wright, M.D., Bellefontaine,

"The Medico-Legal Relation of the Physician to the Saloon and Inchriate; by Dr. I. N. Quimby, Jersey City, N. J." Saloon Relating to the Some New Medico-Legal Questions Relating to the Inebriate; Dr. T. D. Crothers, Hartford, Conn."

The state of the s

The Journal of Psychology, under the care of President Hall of Clark University, is the only American journal on this subject, published. It is invaluable to all experts of mental disease:

The Alicuist and Neurologist, edited by Dr. Hughes at St. Louis, is of great practical value to all students of mental lisenses. The editor is one of the most accomplished psychologists of the country.

A lithographic group of nine of the most distinguished physicians who have made inebricty a special study, has been made by the Photo-gravure Co. of New York City, and are for sale at this office. They are mounted on cardboard suitable for framing, and are sent post-paid for one dollar to any address.

The Medica-Legal Fournal, under the charge of Clark Bell, Esq., is building up the science of medical jurisprudence very rapidly. Each number is a volume of most excellent matter of itself.

Send for a bottle of Warner's Bromo-Potassa; it has a peculiar value in the alcoholic and optum inebriate; and often will relieve the intense neuralgia better than any other remedy.

The Medical School of the Vermont University, under the care of Dr. Grinnell, as Dean of the faculty, has become very popular among medical men, and the increasing crowds of students make it one of the great medical centers of the country.

In 1888 two papers were read on the Jurisprudence of Inebriety, before the section of Medical Jurisprudence of the American Medical Association. The next year three papers were presented on the same topic, before this section; and this year, five papers are announced on the programme. The following are the titles:

[&]quot;Responsibility of the Dipsomaniac; by Dr. T. B. Evans, Baltimore, Md."

[&]quot;Psychopathic Sequences of Hereditary Alcoholic In-