remedy for autrient disturbances. Lactopeptine has come to be regarded as the great new

of New York city, has a special power as an oil tonic and stimulant which is invaluable at times. Pertonised Cod Liver Oil and Milk, by Reed & Carnrick

in anæmia and insomnia and dyspepsia The Alurdock Liquid Food will be found of good service

cellent results as a concentrated food for nervous invalids, The Angle-Swiss Milk Food can be used with most ex-

It can be used in the place of alcohol in omergencies, with Colden's Liquid Beef Tonic is a stimulant of great power.

iodide potassium, 1 grain, iodide iron, 4 grain. chloride magnesium, 5 grains, bromide sodium, 5 grains, fluid ounce of Maltine contains : chloride calcium, 5 ides, and will be found a remedy of the highest value in syphilis and all depraved conditions of the blood able alteratives known, such as iodides, bromides, and chlor-Malline with Alteratives is combined with the most valugrams.

a stimulant and tonic it seems unrivaled in alcohol and hands to be superior to any other form on the market. Valentine's Preparation of Meat Juice has proved in our

pronounce it the 'hypnotic par accellence 't ach and speedily controlling the most dangerous symptoms, and the results of debauch; it being retained upon the stom find it to be of special value in treatment of deliganm tremens, such as cholera infantum, paralysis, insomnia, etc. But I cases having their origin in disorders of the nervous system, very successful results in the administration of Bromuda in relinquish the habit. And, finally, as result of experience, I nervous exhaustion due to opium habitues endeavoring to Have also prescribed it successfully in the terrible state of thus rendering the disorder amenable to further treatment. when morphia and other soporthes have tailed to do so, and and producing the desired calmness and sleep necessary W. H. May, M.D., New York city, says: "I have had

prostration, anæmia, and many other diseases of nutrition remedies that have been found of great value in nervous Fillow's Hypophosphiles are an excellent combination of



# QUARTERLY JOURNAL OF INERRIETY.

OCTOBER, 1887.

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THE PATHOLOGY OF INEBRIETY, AND THE IMPORTANCE OF THE EARLY RECOGNI-TION AND REPRESSION OF THE DIS-EASE IN ITS EARLY STAGES \*

BY EDWARD C. MANN, M.D., BROOKLYN, N. Y.,

Author of "Psychological Medicine und Allied Merrous Diseases, etc.," Physician to Sunnyside Private Hospital, etc.

interest in the disease of inebriety by the general profession. inebricty, I desire to say a word relative to the lack of Before entering upon the discussion of the pathology of

drinks; that from thirteen to twenty-five per cent of all occasioned directly or indirectly by the use of alcoholic a similar per cent in every large city, of all deaths are thirty-three and one-third per cent in New York, and probably agricultural, mechanical, and manufacturing products; that eleven years, for alcohol, more than the entire value of their the people of the United States spend, in the period of result from the alcohol habit and become hereditary; that hereditary; that epilepsy, hysteria, idiocy, and insanity may originate in moderate indulgence to become fixed and established by the alcoholic habit; that the alcoholic appetite ment which may be transmitted to offspring may be When we reflect upon the fact that an insane tempera-

\*Read at the International Congress of Incomery, London, England; July 6, 1885.

of personal identity and responsibility is destroyed function in the brain is overthrown, and the consciousness of mind and mental operations, until finally the co-ordination the most exalted of all functions comprised under the head special; and that it causes the most grave changes of all in forms of sensibility, from the most general to the most action, in the tonicity of the muscular arteries; that it alters abdominal, or thoracic, which is not interpenetrated by glands and muscles; that it causes changes in the varied temperature, and causes changes in the rate of action of causes marked changes in the rate and force of the heart's alcohol, when the alcohol habit is indulged in. That it not an organ of sense, not a single viscus, whether pelvic, any of the membranes, not a secreting gland, small or large, but few blood-vessels, not a muscle, not an active partion of penetrates to every part of the living body, that there are pleasure to instruct the public that the effect of alcohol early, curable stage, and it should be alike his duty and practitioner. He is the one who first meets with it in its is its study so difficult as to be at all impossible to the busy exceedingly small band of specialists in the profession mor its practical relations within the working limits of this inchriates. The disease of inebriety does not chiefly full in tession who are devoting themselves to the care and cure of disease of inchricty in the daily work of every member of regard to the importance of a thorough knowledge of the can but wonder at the astonishing apathy that exists in of the deadliest exils that curses modern society, and we when we reflect upon these indisputable facts, then every of capacity for work of individuals and of communities; of the nervous system; that the alcoholic habit is antagoto be limited to the small band of specialists in the prothe profession. thoughtful physician must realize that we have before us one nistic to the highest standard of bodily health and wigor, and progeny of alcoholics are peculiarly liable to degenerations cuts, become insane through alcoholic drink; that the cases of insanity, according to different asylum superintend-The chief study in this direction ought not

We desire to say that from some years' experience in the field of discusses of the mendand acrosons system, that we know of no discuse of the nervous system more grave and more demanding a caseful, methodical antelligent plan of treatment than the discusse of mehricity.

Let the profession regard inchnety in its true light as a physical disease, amenable to treatment, and aim to instance the communities in which they practice medicine as to the physiological action of alcohol on the functions of the human body, and the science of preventive or state medicine will owe an incalculable debt of gratified to them for disease and death prevented and much domestic misery averted. With these preliminary remarks we come to the subject of this paper. "The Zathology of Inchnety?"

In consucting the pathology of anotherity we must look for a moment primarily at the complexity of the nervous system, its manifold functions and its extensive distribution

activity of the whole nervous system. The variations taking we get at once an exaltation, dimination, or other perverted bility in the different nerve centers is interfered with and and the maintenance of the accustomed degree of excitaand their normal molecular mobility, is at once disturbed, uniform in quality. The proper nutrition of such centers, different nerve centers, being neither definite in amount, nor balanced working of the nervous system in the discuse of altered quality of blood and secondary disturbance of structurally degraded nervous system, but it is initiated by inebriety depends primarily upon the supply of blood to the nerve function. The interference with the proper and wellnective tissue of nerve, except in those who inherit a the nerve elements themselves, or in the interstitial condisease of inebriety the primary morbid changes are not in system, including the vaso motor system of nerves. In the nerves, the organic system of nerves, consisting of the encephalon, the spinal cord, and the encephalic and spinal pneumogastric or vagus nerves and the great sympathetic We have the cerebro-spinal system, consisting of the

to a the secretive subbloas of the nerve centers involve the action of all other related parts. Thus, in the colors of school actions at all other related parts. Thus, in the colors of school actions the most varied grouping of the rank phenomenal tractable to altered action, in the colors of school action and backing for a starting point some perticular forms of constitutions of a progressive type, ending to see a medical most of actions of a progressive type, ending to see a medical most of attorphy and degeneration, showing themselves a most objects of attorphy and degeneration, showing themselves a school structure of attorphy and degeneration, showing themselves constant actions against a school of school action and the nerve cells of the brain, spinal collisions of school scanpathetal gaught.

the last class, the of perverted visceral actions, we nated spasms, as in the epileptiform attacks of inebriates, nom mere emotional display, to actual insanity. In the class ession that he class of perversions of motility we see tremors, balett and in women, of the uterus. legeneration of brain tissue itself, inflammation and cond perversions of consciousness we see drowsiness, stupor, and acted discriminations. In the class of percerted sensation and wave states at an early; nutrative or trophic change and persanding a hair and altered pigmentation of the skin. actives and defective co-ordination of muscular acts. In weed activity of the stomach, intestines, bladder, and e verted exaction and ideation; perversions of consciousness; lites of post crowledn cion and idention we have a long range moles to, we meet with perverted sensation and perception exercion, we have the special senses interfered with: class of nutrative or trophic changes, we meet with lings, spasms, both tonic and clonic, and also co-ordithe langs, or as hemorrhages into these organs, sum the wide and varied phenomena of the disease In the

matrices by is a disease caused by heredity, by defective matrices by characters by characters by characters by physiological crisis, by visceral diseases, and by structural changes in the brain. We may here acceptable the brain in inebriety with the based in the capillaries dedicient in quantity and defective in quality; we may have secondary attrophy of the brain; we

especially when the case of inebriety is associated with with infiltration of it and of the pia mater with serum ment or depression. We may have ordema of the brain, of blood in the capillaries, with symptoms either of excitemay have hyperremia of the brain, with increase of quantity incbriates. Subsequently we see mental dullness, defective usual form, and it is associated with chronic alcoholism and heart causing embolism. The former in incbriates is the degeneration, causing trombosis, or valvular disease of the trated. In these cases we see a slow diminution of mental Bright's disease. The cerebral substance itself is not infibad, the delicate motor acts badly performed, and less perception and handwriting emotional attacks, headache, articulation and handwriting of perception, arowsiness, loss of memory, slight deligium, limbs, and symptoms of mental deterioration, numbriess pains in the Bright's disease. There are generally the premonitory brain from vascular obstruction, depending on vascular power and motor force. We may have softening of the physical power. pains in the head, in the brain softening of Dementia may end the scene.

inherited neuropathic constitution; but here, as in insanity, and physical signs. It is a disease in which the tone and truth from the relations. It is a disease, perhaps more than it is in the higher classes very difficult to elicit the whole power of the nerve centers are lost. attention, even at the hands of those who have written its incipient stages, has thus far received very little or no recognition and the repression of the disease of inebriety in the brain and nerve centers. The importance of the early motor condition, affecting the nutrition and circulation of long-persisted hygienic influences to restore the normal vasoany other excepting insanity, requiring for its cure time, and I believe always, could we get at the true family history, an extensively on the subject. Inebriety is a disease exhibiting certain essential psychic There is generally, and

Inebriety, is, like insanity, a psycho-neurosis, which either attacks an intact brain, or more frequently a brain not

intact. But predisposed to the acquisition of inebriety by hereditary or acquired vices of conformation or nutrition.

show presently in detail, in this early stage of the disease of and into insanity on the other. They are grave phychical quent trouble might be averted. A very careful study and of mental alienation, and if recognized by the general practi physical and mental prostration, muscular feebleness and with a hyper-activity of the mental functions. There is sion, and neurolgia. There is at times cerebral amenia, and assimilation, muscular atonicity changing the facial expressymptoms, and should lead to an early diagnosis by an inteltory symptoms, which, unrecognized and unchecked, lead or shown conclusively that in both alike we have early premonicomparison of the two diseases of mebricty and insanity has tioner and promptly treated in this incipient stage, subse remarks, which in my writings on insanity Thave applied to of mind also. Dyspepsia is also often present. mental dullness. There is, or may be vertigo and confusion There are periods of marked mental inactivity; alternating there is mental depression and insomnia. There are profuse inebricty we have general malaise, impaired authition and been previously a so-called moderate drinker. As I shall ligent physician, especially if he suspects that his patient has hipse into active inebriety and dipsomania, upon the one side but little from perfect sanity, but which is the earliest phase that there is an early, neurasthenic, equivocal state differing that disease, apply with equal force to the disease of inobriety, perspirations and a loss of the normal elasticity of the skin It has an early producing, very cutable stage. The same

Inebricty is to-day a neurotic affection, preceded by a distinct interval of morbid nervousness. In the American of to-day, and I think in the Englishman also, there is a greatly augmented susceptibility to the action of stimulants and narcotics. This is due to the increasing complexity of the nervous system, and to the increased complexity of life. Our brains, as Sir Crichton Brown has truly said are finer in structure, more subtle in mechanism, and also more unstable.

this simple state of neurasthema our patient passes into the urritability of the overebral obgainment centers, evinced by frights from slight causes. These persons have fear of imposition to perform certain acts, and the fears of involuntary performance. There are muscular twitchings, a harty or general relaxation of muscular tone all over the body very simple one. There is recall remon, trembing test supports the knees, arony of the differences. unperfect utterance and a quick agricted manner. If from muscles, giving a tired, worm-our express this same relaxation of the general musc actually developed disease, are cert excretory and other organs producing a general malaise. there is eardiac stimulation and palpitation cases may produce invelontary defecation ation of the facial muscles giving the idiopathic fits of perspiration and rigors. There is also great before him with the being the more prominent. Irregular action of best expresses this state I refer to. If you com spinitiess appearance relaxation of the of voice, generally partial, the che break of the disease in persons thus predictosed to he fifthe phenomena of mervous exhaustion which one who indiction unfluences operate with great readiness in producing an ourappear in the exhibition of the shightest exciting an inherited neuropathic constitution, and dipsomania will individual to hold out his hand and anni this neuropathic constitution recognity sociations before the cause out increased revous discuses prominent among life acting on our complex and exactable nervous systems general myseular fone-which give This causes an important feature of the disease - Cosmical which stand pebriety and insanity. Gwen in a certain ease than were those aftour anecstors. The conditions of modern much the palm down wards, you will dembles wisbly. This is a very go st tones being wea od tes

graver state of hysteria or hypochondriasis according as it is a female or a male, we shall now observe more complex phenomena which may or may not usher in the paroxysm of dipsonania. There will be local pain due to visceral disease. There will be pains reterred to parts not diseased, due to transference of the nerve force or vascular disturbance of nerve centers. There is defective functional action of viscera due to reflex action. There are disordered muscular movements due proximately to reflex action or vascular disturbance of nerve centers. Aside from heredity excessive sexual indulgence, loss of blood excessive mental and muscular exertion, or any painful disease may be the cause of the neural and muscular exertion, or any painful disease may be the cause of the neural energy of the neural

priating power of the brain, and all this is very often directly as one of the most important points in the pathology of the disease, a stage which the general practitioner should regard acteristics of the prodromic neurasthenia of which nia or msanity appear well-developed all the psychica replaced former decision of character? As active dipsomathat change of the mental character in which irresolution has inebriety. What physician of experience has not witnessed theless paved the wa) for the establishment of the disease of debility of brain, due to general failure of the normal approof fear of which I have spoken are the characteristics of played. Now is the time to prevent the neurasthenia of in tic mark of dipsomania, may not yet have been actively dis the irresistible craving for alcohol) which is the great diagnos as the danger signal of active dipsomania not fair off, although when occurring in those who daily use alcoholim moderation of this early neurasthenic stage of inebricity. spoken increase I would therefore maist on the existence is conventionally termed moderation but which has nevertraceable to the daily use of alcohol in some shape; in what in the neurasthema of the dipsomaniac and insane man alike ibnormally in the neurasthenia of mebriety, and all the forms The heart, the spinal cord, and the brain all functionate.

## The second control of the second control of

The constant current of electricity as centrac galvanization and cerebral electrization will do much to antigonize the symptoms of this early stage, while attention to rest, sleep mental hygophosphates. Stychnia, tron and arstaic since and phosphorus are all indicated as circumstances may dictate-both to combat the disease and build up and restore the shattered nervous system. The fluid extract of cocase also at times very valuable as is also. Warburg thricture and quantie. A single teaspoonful of Warburg thricture and quantie were valuable as is also matched to even moverate at him which I am acquainted. The the constitution strongly masked the phenomena which I have seen have consisted of sleep lesiness and right terrors and emissional outbursts in early which the phenomena which I have seen have consisted of sleep lesiness, and right terrors and emissionate outbursts in early which with each of the train of nervous phenomena in cases untreated becoming gradually intensified and becoming well marked at the age of pubberty when a disposition to either, recurrent market becoming the case move the constitution of the representation of such children from the earliest oblidhood, so that nature if possible may restore herself to the normal standard and over-strong atom of the branism too premating education of such children from the earliest oblidhood, so that nature if possible may restore herself to the normal standard and over-strong atom of the branism too premating education of such children be avoided with like care.

The great danger to American children to day is in the appendiction of the neuropathic diathesis which will if not antiagonized as they grow up, tend to make many of them mechanics and mentally unsound. This is particularly true of the refined and captivated classes where by premature and simplicing processes of education, an ciaboration of cerebral structure its forced and the functional activity of the blaim in children hastened overstraining the brain centers at their nascent periods thereby dwarting and weakening

them, disturbing the balance of mind by seriously interfering with the matural sequence of the evolution of the brain centers, and preparing the child to fall an early victim to some of the modern nervous diseases. Careful building up of the nervous system, and a careful direction of the mode of life and observance of the rules of mental hyghene may even in children who inherit like neuropathic daultesis, to stire functional energy, antigonate the motibid psychosis, build up the nervous centers, and prevent much inchrictly and mental disease in later life. Preventive medicine is a wide field for study, and by such study must incornery and mental disease be stamped out if they are to disappear. Thave endeavored to be as brief as possible in these remarks on the Fathology of Insbrutty and the importance of the early recognition and repression of the disease in its early stages.

structure of the nervous system, and that it is this abnormal arouses the appetite, overcomes the will, blunts the moral ever, decisively that the propensity for drink in this disease required. Accumulated results of experience indicate how questions, for the complete elicidation of which time as yet elevations above the sea level, the approaches of storms mical influences, such as electrical phenomena, lunar attract Inobriety is, that there exists a departure from a healthy sition to frequent lits of intoxication, are familiar to all here irritability and restlessness, the unnatural sensations, the the force of the disease precisely as in mental disorder, and demands. The will power of the individual is overborneby sensibilities and makes everything else subservient to its barometrical changes and temperature are most interesting uns velocities and directions of winds, geological formation degree the phenomena of inebricky are controlled by coslants that is essentially the disease. How far and to what condition of the centric nervous system demanding stimuuncontrollable desire for alcoholic stimulus, and the dispopresent. The great salient point to me in the Pathology of The hilly developed disease exhibiting the great nervous

just as the periodically insane manchas free intervals of comparative sawly, just so does the dipsomantic have free intervals of solute, when the interstible feature for stimulants passes away, to return again, however, with the frest passes year, unless the proper recreatal measures are applied. It this moulaid fraving for stimulants is glearly traccable to a brain condition, what is the montal responsibility of the mediate? To me a modified a sponsibility in the disease of incharge is clearly demonstrated, and we hope the day is not far distant when the projection of the courts will be extended to the anothere.

dering on dementia, tottering scatt hesitating, stammering speech, and other symptoms indicative digitadually progressing paralysis. Softening may also occur from the sligh attacks of cerebral hemorphage not infrequent in inebrates. Email@livenild.speak of the great importance of the ingitis, with impai logical action of alcohol with its stage-excitement, the cerebro-spinal change carried out to it The study of the Patholo olidi, the sensory changes, the vascular changes in the alcoholic thirst, and early systemic failure. The telescase from alcohol would show us fatty and disdiseases v and *uun* nolic thirst, and early systemic failure The sease from alreado would show us fatty and disease fillood vessels, alreadolics, weakened and diseased flood vessels, alreadolic nedification The study of the junctional disease from alcohol s fullest c would reveal aside from insanity epilepsy, to the inemory deliness of annual menture. ment of memory duliness of intelegation na . toffering part hes burgers stammering of the liver-and kidneys, d of an invalidation and structural degen of the digestive the volutional nervou ge of vascular mervous is induced, the fall of a inquines into physi iseases of the

recognizion of the mental condition that in incitates is the precursor of actual insanty. Thave had the opportunity of studying carefully several such case, many of whom I have been so fortunate as to restore to home and society. The

chaical manifestations which I have observed in these cases warmest affections, quick changes and rapid transitions in expressive of the inward emotion. There are intervals of turning no delusions, but occasionally losing his self-control the current of the feelings, sleeplessness, and a complete have been depression, unwonfed excitability, disregard of interest, not alone to the student of mental pathology, but to depression, and impulse toward self-destruction, of melaninsanity appears we see the inter-downfall of the intellect eises over his feelings and actions. In those cases where recognizes the influences which the incipient disease exerclearly discerns his true relation to others, and even perhaps perfect calmness and self-control, during which the person the general acts, and manner at such times, being strongly change of character and habit; the person meanwhile enterthe minor proprieties of life a change coming over the everyone who desires to lead the wandering mind out of the of the insanity of the inchriate the study of which is full of manifested by the tury of mania of the moodiness, suspicion darkness and mazes of disease back into the light of reason All these are the successive links forged in the chain

The inebriate is always unconstious of the influences which are determining his actions. He seeks reasons to explain the act after, and is indignant when told that diseased impulses control, and thinks his own conception of his acts far more accurate than that of others. It is impossible for him to detect the real condition and causes which control him.

To reason abstractly as to the nature and causes of inebriety without first having found what these actual conditions are is to plunge into a fog-bank of error and misconception that is fatal to all true, practical realization of thissubject:

## THE RELATION WHICH DISEASE BLARS TO ALCOHOLIC INEBRIETY.\*

By Liewis D. Mason, M.D.

Consulting Physician to the Inchriates' Home, Fort Hamilton, N. Y.

Disease may act as the predisposing, exciting or complicating and protracting cause of alcoholic mebriety. The disease may be inherited or acquired. It is proverbal that the progeny of insame or inebriate parents frequently become mane or mebriate, either at or near puberty or middle life, when the exciting causes are presented that develop the latent tendency. As many are born imbecile, epileptic, or idiotic, because of some defect in the procreating power, so many are born who inherit an "inebriate diathesis"—It is their sad birthright. They are the product of a defective and degenerate parentage. Of several hundred cases of inebriates whose ancestral record we have noted, over one-third had either insame or inchaine parents, the latter being in excess.

While we may regard inebricty or insanity in parents as the principal predisposing causes of alcoholic inebriety in their offspring, we should also include among the predisposing causes of a hereditary character, only secondary in importance to those mentioned, all neurotic tendencies, all hereditary diseases accompanied by degenerative changes, congenital syphilis, tuberculosis, epilepsy, or other neuroses. The subjects influenced by such diathesis are born with a defective nervous system. They have a low resisting power to the intoads of disease that still further degenerate the nervous system; they are congenital neurotics; they have a

<sup>\*</sup>Read at the International Congress of Inchriety at London, England, July 6, 1887,

natural rendency toward drugs offine stimulating or natcores and readily become insure of including or epium habitues whenever a sufficient exciting enuse is presented.

In brief then, any disease of a herefitting character, acting either directly or indirectly upon the nervous system, while it may not be as important as herefitting insanity or inchriefy in determining the chained in which the future life shall drift, nevertheless it imposes upon that life a liminulated resisting power to the use of alteriolic stimulants of narcotics and so predisposes the individual to inchriety.

Let us now consider those circumstances which may be denominated the arreing miner of alcoholic incharge and these we shall find are namical in the form of disease or injury by the person at some period of his life antedating his inclusion.

These exciting causes may operate upon a person pitedisposed, by heredity to inchricty, and so precipitate or hasten a tendency that might have manifested itself later or they may act upon one who has not any hereditary tendency to inchriery, but who becomes an inchriate drom disease or mjury.

These exciting causes may be divided into -

Phase. Those that operate inimediately upon the cerebro-spinal axis, as cerebral concussion, fracture of skull with or without depression, sunstrake, cerebral syphilis, or other disturbance of the encephalon anore or less profound; and.

haired. Or any disease or injury not producing direct changes on the vereint spinal axis, but localized outside of it and operating upon it by reflex influence, viz.: painful idears, neuritis, neuromata, urethral stricture and dysmenorrans. In brief, any distressing of painful condition, acting thus indirectly upon the nervous system.

In our experience "head injuries" hold an important place among the direct cratting anixes. At least one in six had received blows on the head, forty-one of one hundred and awenty-three cases of head injuries recorded at Fort Hamilton, were fractures of the Skull. In four of these

cases there was loss of bone; seventy-one of the one hundred and twenty-three became habitual inebriates, the balance periodical.

Simistrate: Our records show only a limited number of cases assigned to this cause, but we believe that further research in climates where it is of more common occurrence, might give it more prominence as one of the exciting causes of inchrety.

Syphilis. About one in four of the cases entering our asylum were syphilitic. Syphilis is not unfrequently the exciting cause of inchricty more especially in the later stages, when the nervous system becomes involved. We have cases on record in which the syphilitic did not become an inchriate until the nervous system was affected. At whatever stage the disc so may manifest itself it should always be regarded as a complication and receive proper freatment.

Mental Slack. Resulting from sudden or excessive grack or Joy may be an exciting cause of inebriety; acting as it does directly upon the nervous centers by vaso-motor disturbance.

The relation which insanity bears to inebriety and the reverse, is one with which every asylum superintendent is familiar. The distinction to be made is whether the inebricty is causative or preceded the insanity, or whether contributive, that is, accompanies and is due to the insanity.

The history of a sudden transition from habits of sobriety to the reverse, especially if preceded and accompanied by marked mental changes, we should regard as strong presumptive evidence in favor of the insanity, not arising from alcohol; whereas, in chronic alcoholic mania or dementia, there is the evidence of intemperate habits extending over a long period antedating the mental alienation. The history then of the patient preceding his insanity will enable us to determine the relation that alcohol may have to the insanity.

The differential diagnosis is more readily made in the

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more acute forms of mental disturbance that arise in connection with alcoholism. When an insane person has been using alcohol over an extended period, it is somewhat difficult at first to determine what part alcohol holds in producing the mental trouble, so that it is necessary to keep such cases under observation for a while after the withdrawal of the alcohol, before determining whether it is causative or contributive to the insanity.

the treadmill of routine and daily toil. These galley slaves temperate and moral these exciting causes of inclinety are of intemperance and licentiousness in a person heretolore the chains of habit and disease engendered by habit, have tematic feeding," and happy is he who seeks it early, before neurasthenic we invent the "rest cure," "massage," "sys leaned for support becoming a rod of torture. It is for the ranks of the confirmed incbriate, the staff on which they cerebral effusion or the failure of a weakened heart ends the on the unequal conflict and a protracted illness ensues, or a its needed rest until wearied nature refuses further to carry task into the small hours of the night, they rob the body of are chained to the desk and to the ledger they carry their by which the tired heart and wearied brain are goaded on in alcohol is sought for its stimulating effect. It is the spur to perform the ordinary duties of life; under these conditions weakness, want of mental energy, and almost total mability ing and worry or other depressing causes, producing physical bral circulation, resulting from under-feeding and overworkcellurs (1811, a prolonged vaso-motor disturbance of the cere insignificant, when compared with heurasthenia or nervewhile the first overt act of the insane may be an outbreak precipitate the subject of it into insanity or inchricty and made him fast a prisoner. scene if these crises are past these unfortunates join the But while mental shock, if it does not kill outright, may

The social customs and tendencies of the age in which we live are oftentimes the foundation causes of neurasthema, the fierce rush in the race of life for wealth, position, and

"that hower that comes from men," is so great that to outstrip our fellows, the words "rest." "diet," "recreation," must be crased from our wordbulary. We have presented a few of the principal direct exciting causes of alcoholic including let us now consider those exciting causes that operate indirectly for by inflex influence upon the cerebos-spirial axis. Some of these have already been mentioned: painful ulcers, seniormata, neuritis, in its multiple forms, unethral streeting dysmenor-rhea, diseases which are accompanied by much distress or pain, and which are often and necessarily obvious.

A case entered the Fort Hamilton Asylum some years since, which at the time impressed me very much. The patient, a young man affected with bertiary syphilis, manifesting itself in a severe neuralgia of the face and neek. This had yielded partially to the usual treatment, but not so as to give the patient permanent or satisfactory relief. He assured me he drank for the relief it gave him, and—he was only free from pain when "comfortably full—" to use his expression, and that his pain made him drink. He further stated that he had tried opium, but did not like its effects."

cure of the inchriety coincident with a cure of the co-existure was cured of his inebricty also, and of one who was relieved more than balances the depression that would naturally seems to be a compensatory influence between the relief after the relief or cure of some painful disorder is oftentimes however, to suggest that this return to habits of sobriety of his inchriate tendencies by the passage of a tape worm. from the depression incident to a painful disease, which ing disease, and this cure is often so prompt that there absence of alcoholic changes, we can almost so marked, that with a fair family and personal history and We might multiply examples, but let these suffice. We desire, rapid recovery from the incurrety. follow the withdrawal of the alcoholic stimulant, hence the Cases are on record where an inebriate cured of his strictguarantee a

Having pointed out briefly, the relation which discuse or number may hold to alcoholic inchrich as its predisposing.

exciting or profes to course, let us reverse the considerative and see what relation adalad deaps to discuss as its exciting cause.

Before considering the special effects of alcohol on the various organs or itssues of the body, we may remark that abound is no respecter of tissue, while it has some habitats or localities in which it seems to perfer to exert its effects, and is probably more rapidly destructive there than elsewhere, and in this respect may be local in its action; it is general also. There is not any tissue or organ of the body that escapes its deteriorating effects.

As to the cerebro-spinal axis upon which its most proband effect is felt, we note its action on the cerebral vessels, as seen in vaso-motor paralysis and its sequence, or fatty degeneration of the capillaries and leakage of the watery constituents of the blood, constituting serious apoplexy or wet brain, a not unusual, and, in our experience, fatal form of cerebral disquipance, in the mebriate.

Exility is one of the most common of the neuroses due to alcoted. About one in fourteen was the proportion in several hundred cases of includery recorded at Fort Hamilton, and exclusive of a few complicated cases resulting from transactism, all were due to alcohol as the exciting cause.

The relation of alcohol to the various forms of acute and choosic manch, as the exciting cause, is shown in the many types of meantal alcohol requiliar to alcohol. These are: manifestation delicium tremens, chronic alcoholic manifestations of alcohol on the nervous system, resulting in mental disturbance; we can also recognize its causative citect, in other causes of the nervous system which also acide from other causes, namely, general paresis, hemiplegic, and the nothing forms of neuritis, etc.

Whicher these results be due to the direct effect of all shot, acting as a poison on the nervous centers, or to object rative changes, we must nevertheless recognize the fact, that alcohol cannot be ignored in its causative relation

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to most, if not all, diseases originating in the nervous system, and that it impresses its special characteristics on these, whether it be an exciting cause, or contributive only in its action.

l'assing then to consider the effects on other organs of the body, we find gastric derangement, dyspepsia, atony or actual degeneration of the mucous coat, and glandular structure of the stomach, so that the organ is rendered incapable of performing its simplest function. This condition is oftentimes secondary to acute or chronic hepatic derangement. A serious complication, and in the latter stages of inebriety, hastening the end of a patient, owing to the inability to retain or assimilate proper nourishment.

As to the frequency of chronic gastric disturbance, or serious liver complications, our experience does not coincide with the general impression, that these conditions are extremely frequent. Indeed, serious disturbance of the stomach, intestines, or liver, are much lower in the scale of fatality in inebriety than in disease affecting the lungs or nervous system. At least this observation applies to our asylum experience.

Private or public inebriate asylums, in which cases are taken for reformation, if we can use that expression; as a rule are privileged to receive selected cases only, and also to discharge cases affected by incurable disease. Indeed, such cases are often removed by the friends, preferring that the inebriate shall die in his own home. Hence the death rate is small, and the opportunities for autopsical research are limited, or only occasional.

It is in large hospitals and pauper asylums that such research can be carried on, to any extent, and to those we must look principally for the pathological effects of alcohol. We therefore take pleasure in presenting here "An Analysis of 250 Autopsies on Drunkards, Illustrating the most Prominent Anatomical Lesions of Chronic Alcoholism," by Dr. H. F. Formad, at the stated meeting of the Philadelphia Pathological Society, who presented specimens and read a

paper with the above title. We will give a brief synopsis of the paper and the discussion of it as published in the Society's proceedings:

or debanches, the subjects often dying in one of these be evaluation of the kidueys, fatty infiltration of the a long list of lesions considered by various authors to be debauches, and that not include moderate drinkers or those liver, and mammillated stomach. His cases had been those tie induration of the kidney, and chronic gastritis with micer in his 250 autopsies with only six cases of cirrhosis of was so close that it was impossible to have a case of cirrhosis necause at the autopsy no circhosis of the liver was found certain person was not likely to have been a hard drinker ive use of alcohol, and had even testified in cour that a not aimost necessary, concomitant of long-continued excesshimself at one time considered circhosis a very frequent, if results of chronic alcoholism, among which the cirrhotic not at all possible to separate one from the other. He gave holitself, to do with the production of the lesions, but it was state of drunkenness, had much probably more than the alcothat the exposure irregularities of thet etc., meident to a alcohol without any previous chronic causes. He thought who perished after imbibition of an enormous quantity of in which there had been a history of a long-continued series siderably or even very much enlarged the enlargement in the liver with contraction. In 220 cases the liver was convarious authors. without a previous history of alcoholism, as is held by He had thought too, that the connection between the two liver with contraction, held a prominent place. He had most cases proving to be due to a latty infiltration. Cyanoa more extensive analysis of the cases," time he will give a detailed account of the above lesions, and case. This cyanotic induration is peculiar, and differs from mammiliation of the stomach, were found in nearly every the cyanotic incluration due to heart disease. At a future Dr. Formal considered the most conspicuous lesions to Therefore, it was surprising to him to

## Relation which Discuss bears to Alcoholic Inchritis. 215

"Dr. James Tyson could not speak from a systematic observation of a large number of autopsies in the cases of confirmed drinkers, but he remembered distinctly being surprised, in several cases, by the absence of curhosis where he confidently expected to find it."

"Dr. Wilson said that Anstie, in the article on alcoholism in Reynold's System of Medicine, had called attention to the comparative infrequency of contracted liver in confirmed drinkers. This observer in an extensive out-patient practice in London, had seen large numbers of cases of alcoholism, but very few among them presented the physical signs of cirrhistic (contracted) liver. The experience of the staff at Blockley Huspital confirms this view. There, many of the patients are seaked with alcohol, but even among those whose death is directly or indirectly due to alcoholic excess, fatty liver is much more common than contracted liver."

he would say were much more common than in Dr. Formad's tinct to the maked eye, but plainly shown by the micro ence with livers, in a large number of autopsies on cases of sent more specific statements about them. His own expenthese cases were chronic alcoholics. Dr. Formad should prewhere he knew very little of the history. Before saying satisfactory character, he often having had cases to dissect morbid anatomists with histories of patients not of the most scope; this is the largest class. 3. Hobbail livers, these classes: I Those in which the condition of the liver is alcoholic beverage taken. He had not observed the special series. 4. Hypertrophic cirrhotic livers. cirrhotic livers; the cirrhosis may not perhaps be dispretty satisfactory, some of these cases may take alcohol chronic alcoholism, had led him to divide them into four form of kidney described by Dr. Formad. In reply to a between his observations and those of Dr. Formad might tor many years and yet the liver pass muster . 2. Earty possibly be accounted for by a difference in the form of "Dr Osler thought the experience of pathologists and The difference

which these points were overlooked." the tissues, while others might be due to its systematic subjects of Dr. Formad's autopsies were confirmed whiskyone. The latter is the higher grade of degeneration. The that in some organs the fibrous change precedes the fatty hol are of two kinds, sclerosis and steatoris. action. lesions might result from a local action of the poison upon degeneration than in those whose use of alcohol, though soakers, in whom one would expect to find more intensity of point which had not been alluded to was the fact that some connection. The text-books teach that the Jesions of alcoretical considerations which suggested theniselves in this persistent and excessive, was not so outrageous. "Dr. S. Solis-Cohen said that there were certain theo-No study of the subject could be complete in It is known Another

"Dr. B. A. Randall suggested that the point touched upon by Dr. Osler, 'the character of alcoholic beverage,' might be very important. In Vienna, among beer-drinkers, he had found the fatty liver much more common than the cirrhodic, while in England, where much gin is drunk, and he should suppose in Scandinavian countries, where they drink altogether strong spirits, the cirrhotic liver is doubtless comparatively frequent."

"Dr. Musser had recently had to go over the records of the Pathological Society, especially in liver diseases, and had found the total experience of different observers the same as Dr. Formad's, and also in those cases cirrhosis was caused not so much by heavy drinking as persistent drinking of spirits on an empty stomach."

The effect of alcohol on lung tissue results in fibroid degeneration, interstitial changes, hence the term "fibroid phthisis," "chronic interstitial pneumonia." It is bilateral, fine crepitant rales are diffused over both lungs, the sputa is limited or largely bronchial mucous, not marked by pro-

## Relation which Disease boars to Akoliake Inchriefy. 217

ducts of disintegration, temperature and pulse progressively high. Dyspines become more and more marked, the discase in the latter stage becoming rapidly fatal. This is an intractable and inevitably fatal form of pathists. As to the prognosis, the question is not whether the inchriate will become sober but only how long he will live. The mischief is done and is beyond repai; irremediable tissue changes have taken place; alcohol is master of the situation and to withdraw it would simply mean to hasten the death of the patient.

About one person in twenty who enters our asylum has phthisis in some form

The origin of these cases could be traced in some instances to a tubercular or syphilitic diathesis although a certain proportion were produced by the long-continued action of alcohol on lung tissue

We have dealt with cases of phthisis under several conditions

15t Cases of incbriety have died in our asylum from phthasis, which they had contracted previous to admission.

2d. Cases of inchricty, complicated with phthisis, in the advanced stage have applied for entrance into our asylum and been refused, as improper cases for admission.

3t. Cases of incbriety complicated with phthisis have been discharged from our asylum as improper cases for further special treatment.

We cannot pass this phase of our subject without asking what relation the consumptive from any cause, not alcoholic, bears to alcohol? Whether ushered into the world with a tubercular diathesis or whether the phthisis be acquired in the ordinary catarrhal form from exposure, etc., he must face alcohol as a medical prescription; his case necessarily chronic, he must use alcohol for a long period. Query: A certain proportion of cases of phthisis prove fatal; a certain proportion end in temporary if not permanent recovery; what proportion of those in whom the disease was arrested or reported cired, became addicted to the excessive use of alcoholical proportion of those in whom the disease was arrested or

hal, that is, became incbriates? It seems to me that this question might well be agitated in professional circles

Whether then the alcoholic degeneration is latty or fibroid, whether it produces alteration of tissue or acts by vaso-motor disturbance, as in some cerebral conditions alcohol praduces disease and very destructive forms of disease, which in the advanced stages are irremediable and eventually taral

The question naturally suggests itself why does the inebriate use alcohol, or why do people afflicted with discuse use alcohol, and so eventually become inebriates? Without attempting to exhaust this question we shall at least give it a partial answer.

Aside from those who use alcohol as a beverage or from social custom, who belong to the great class of so-called moderate drinkers, we should say that a large proportion, larger than we are aware of, are addicted to alcohol because they are diseased and use it for one of two reasons:

First. As a stimulant, cardiac primarily, then upon the cerebral circulation. The neurasthenics already alluded to are of this class, also those who are suffering from physical weakness, engendered by exhausting or depressing diseases.

Second. A certain class use alcohol because it is an amousthetic in painful or distressing diseases or conditions. A familiar example is the use of alcohol in dysmenorihoca, an effective but dangerous remedy. How many women can trace the first use of alcohol to this cause? The decided anasthetic effects of alcohol have been not only proven by the direct experiments of Anstie and others on the inferior animals, but the older records of surgery bear ample testimony to its anasthetic effects upon the human subject. There is no doubt as to its pain-relieving qualities, and this does not necessarily imply a complete toxic effect or alcoholic coma. It is also known that factule sensibility is much impaired in the habitual inebriate, indeed so much so as to constitute a diseased condition.

- Without multiplying examples, or further demonstrating

## Relation which Disease bears to Alcoholic Inebriety. 219

the premises laid down, we have endeavored to impress the fact that disease either hereditary or acquired, may be in a certain proportion of cases the underlying cause of the alcoholic inebriety, and that alcoholic by its well-known degenerative tendencies will produce disease, which, when established, tends not only to produce, but also keep up habits of mebriety.

If these premises which we have presented and endeavored to prove as to the relation which alcohol holds to disease and the reverse, are correct, then we are warranted to draw the following conclusion:

"Alcoholic inebriety is often based upon and dependent on diseased conditions, and demands proper medical treatment to temore, if possible, these diseased conditions." "The mebriale is a diseased person and the disease has either preceded the mebriety, or is dependent upon it."

The "moral view" has had full sway; the "moral responsibility of the deunkard" has been the topic of a century institutions have been founded on the "moral basis," and society and the law have treated the inebriate, not as a sick man, but as a "moral delinquent"

The selation which inorality bears to inebriety ceases or assumes a secondary position when the inebriety is dependent upon diseased conditions. We do not desire to exclude those moral influences that operate on the higher and better nature of man, from our asylum, but would assign them their proper place. Let the authorities of the church and all philanthropic bodies and individuals be co-workers with us in the return of the inebriate to his normal condition, but let not those supplant the hospital, the physician, and the medical means used for his recovery.

There is not any quairel between the true moralist and the true physician. The true physician is the highest type of a moralist, he is the exponent of right living and right thinking, and is fore... st in all that pertains to the physical and mental elevation of the race.

It is not extravagant to assert that the so-called "moral

treatment." of the inchriate has been the great obstacle in the proper freatment of inchriety. One of its evil effects has been inellicent, irregular, or improper freatment — worse than none— and the bing delay that frequently clapses below the patient is placed under proper and systematic treatment and restraint. Therefore the hospital and the physician, that ought to have been placed last, and sought onlike been placed first, have been placed last, and sought only when every other means have been exhausted. Our recents show that the majority of inchriates do not apply for asylum-treatment until the inchristey has existed a long time—unpairly all instances over five years, and in a large-proportion of eases over ten years. Often during this period organic disease, the direct result of the habitual use of alcohol has undertuined the system, and the patient is beyond relief.

It would seem almost puerile to bring before your association, the various methods and expedients that society has invented to deal with the inclurate and if possible to effect his reformation. They are simply the outgrowth of viewing and dealing with the inclurate from the importal standpoint. There has been a log of mysticism, not only among the laity, but in our own profession, also, as to the exact status of the inclurate.

Let us now epitomize the facts that we have endeavored to demonstrate.

1759. There is an "incbriase diathesis." A certain proportion of persons inherit a fendency to inchriety, just as others inherit syphillis, tuberenlosts, or other disease, or tenchency to disease, from parents

Samus. A certain proportion of persons become incbriates as the result of injuries or diseases; affecting the nervous system, either directly or indirectly, and these may operate on persons with a good family and personal history ante-dating the disease or injury, or prove the exciting cause when a latent tendency or predisposition exists. In the first instance the inclinetirety may be said to be acquired; in the latter the rendency simply developed.

Tain. Vicobol by waso-motor paralysis, or degenerative

changes: produces disease. The disease so produced not only develops unchricty, but tends to protract it, and will do so until the person is relieved or cured of the disease.

Finish. Disease associated with inchricty, whether it be hereditary or acquired, whether it be regarded as the exciting cause of the inchricty or not must always be regarded as a complication protracting the mebsicity, and rendering the recovery of the inchriate practically hopeless, unless the associated disease be removed or modified.

We have undeavored in this paper to give a general review, rather than an elaborate and exhaustive presentation of the facts heavin embodied. Our object has been mainly to give prominence and emphasis to a few observations accepted by the profession, here and elsewhere—at least that portion of it who have given especial attention to the "cause and cure of mebrety."

We have endeavored to demonstrate the relation disease bears to alcoholic incbricty, and thus answer in part at least, what is the "Etiology of alcoholic incbriety," a question we cannot ignore not refuse to answer, that precedes all others in point of importance; a problem the solution of which cannot be delayed; as it is one that affects not only the well-being of society, but the destiny of the race itself.

The following papers, read at the International Medical Congress at Washington, will be of interest as showing the drift of medical thought towards inchriety and its disorders: "The Application of Alcoholic Stimulants to Medicine, or the Therapeutics of Aicohol in Disease," by Dr. E. N. Liell "On Alcohol in the Organism," by W. Hudson Ford, M.D., St. Louis, Mo. ""Pathological Anatomy of Alcoholism," by Henry F. Formad, M.D., Philadelphia, Pa. "The Relation of Psychological Medicine to the Disease of Inchriety," by Edward C. Mann, M.D., Brooklyn, N. Y. "Cocaine Inchriety, its Gause, Consequence, and Cure," by J. B. Mattisson, M.D., Brooklyn, N. Y. "The Disease of Inchriety and its Treatment," by T. D. Croiners, M.D., Hartford, Conn.

Legislation for Inchridy

### LEGISTATION FOR INDUKTION,

#### By DR. PERMAN

Physical Street P. Margane, Liege

tore a supreme peril, to save him in spite of himself. Sahar nightful. Shall we continue to cross out arms to let the to make repressive hiws for alcoholism. Trance has preceded classic countries of progress and liberty, have not hesitated always save themselves, and that liberty and instruction are people become willingly deprayed on have we the right, hemins, alsoises, sincides, insanities, and etimes it couses is has augmented in trightful proportions cuty; but there is neither progress nor liberty for the cintiames us: we wish, absolutely like them, the progress of libthem. We must not remain behind these sister nations. sufficient to one them. bruned nations. The same blood is flowing in our reins, the same spirit in-A SAN SOME THE LET NO ONE SAY that the nations can Of secont years this question has upened Wetholism England and Netherland these two The number of

ous necessity to take immediate preservative measures for miseries, madness, phthisis, scrofula, brain-illness, incontestriches; there is, besides, morally and physically profound nres of our soil, make the proud statistique of the untional they be energetical, the best prophylactic of alcoholism. When this will be determined, we shall recognize the imperithe present situation of the alcoholized man, if it be possible. able degeneracy of the race. It is important to determine table and society. Needless to show all the marvels of industry, all the treas They will constitute by themselves, it

the last period, is not dealt with: his free will; this delicate property of will, which to the most At present the alcoholized man who is not yet arrived to He does not really enjoy

\* Keas before the International Congress at London, England July 2-1887.

termination, or deliberation, or a thorough knowledge of the circumstances has left him. There is no more personal deadvanced spiritualist point, requiring a rare concurrence of

politic life. The has the direction of his family, the adminisneither madness, nor fury, nor imberility. Inat is a special diet him, according to the civil code. The mental state is Unless he be completely mad, it is even forbidden to intersible? Yes, it is possible; and every day we ascertain it tration of his goods, he is elector, he is suryman. Is it peslile; and nevertheless, he continues to take part in civil and holized man, whose state is medically and legally recognized and they have reason, because, till this moment, this new dismake acquit all the infamics, all the most detestable faults ters never want to plead irresponsibility, and they succeed to may say, by the tribunals? He is alcoholized. The barrisruning and disgracing his family, he robs and he kills. means to commit the most criminal acts. Livery day be is ravish their responsibility and culpability, in allowing him the and indefinable situation in the actual terms of law, but which have the power to close him into a special establishment, must be interdicted; second, when he is interdicted, one must or penal laws the place it ought to occupy. ease, characteristic of our epoch, could not receive in our civil Nothing can stop him. to his strength. where he should be treated, and obliged to work, according The alcoholized man being not free is no more responsi-What do I say, he is excused as one First, the alco-

half, criminality, and prevent incalculable damages. tute a mighty curb for alcoholism. They would diminish, by our laws, and if they are adopted, they would already consti-There are two propositions which must be introduced in

must not leave to the tamily only the right to provoke it lic attorney, as representing the social interests, ought, belore geance, always to be feared in such a situation, that the pub-Even I should say, in order to prevent reproach and ven-How is it possible to arrive to the interdiction? We

conformably to article 491 of the civil code. all to ask and to bring it before the court of first instance,

a chronic poisoning, so well defined in its lesions or sympall his rights, to make of him an under age, and thus to deprive, by judiciary way, the alcoholized man of toms, as the typhic, plombic, or mercuric intoxication. cile or furious before their perpetration. ter determinated state for the playsicians, and the alcoholized or imbecility. These warped or old designations do not crequestion is to obtain a simple addition to the article 480. man can instantly commit all the faults; without being imbeare a sufficiently strict duty. Alcoholism constituted a bet-But this article gives only the right to act in case of fury The alcoholism is

or in an hospice. cheled man should be treated at home, or in a lunatic asylum, the disease, the family council could decide that the inter-The article 510 f says that according to the character of

ure, and that it is greatly preferable to leave to justice the care to provoke it. the legist physician, is more able to determine such a meas-It is yet evident that the public attorney, enlightened by

establishments, the special physicians, do not dare to receive day similar cases. man have arrived at mania or madness, the directors of these asylum are actually closed for him. islator wish for the alcoholized man? The hospital and the But what will this asylum or this hospice be that the leg-We do not imagine the difficulties that present every Unless the diseased

Legislation for Inchristy

a lunatic asylum, we can establish special establishments ander the direction of intelligent physicians If we cannot confine the irresponsible alcoholized man in

only one which may be human and efficient. La society cian knows that the determined alcoholized man refuses this the magistrates, measure which alone could save him, sibility is covered by bondsmen. Every expenenced physishould remain only responsible beings or men whose respon-The interdicted alcoholized man should be shut up by That is what I call preventive justice the

a better use of our great riches than the europf such a term sary to save the people whatever may be the price. Is there do not consider it before so great a social peril. It is necessociety with the consideration so necessary to all conversion away from these unhappy men the hope to come back into accomplish all the conditions of health. We must not take it is a thousand times better to prevent the destruction of and hygiene is lost by alcoholism. On the economy point, pital and prison budget? The spent money for instruction ble illness? Should it not be a real economy upon the hos-Amongst the objections remains the question of money. I cupital resulting from interrupted labor, made by brutish These special establishments must be fitted up so as to

sick from alcoholism, that is, seven times more than ten 33.41 per cent of the meane kept in the Vienna asylum are number of ginshop-keepers has trobled at Vienna since 1859. dren with dram and schoolboys were seen lunching on spirits years ago. Vienna has one liquor station for every twelve houses, the Carinthia mothers were found fulling asleep their nurse chil filty-seven, nay for twenty-one inhabitants. In Bohemia and In some parts of Bohemia one liquor station is tound for

in Carinthia since the consumption of genuine Tyrolean wine potatoes, sweet turnips, Indian corn, etc. Inebnety has risen spirits are made out of amylaceous materials like molasses, Alcoholism and mebriety have risen on a large scale since

man who has no known wife, or husband, or relations. by the husband or wife, nor by the parents, it must be so by the procurer of the king, who, in the case of imbecility and madness, can also provoke it against a \* Article 491. - In the case of fury if the interdiction is provocated neither

ness, or fury, must be interdicted, even when his state presents ucid intervals. Article 489 - The major, who is in an habitual state of imbecility of mad-

shall be treated at home, or that he shall be placed in a lunatic asylum, or even disease and the state of his fortune, the family council could decide that he played to soften his lot and to quicken his cure. After the character of the t Article 516.—The revenue of an interdicted man must be especially em-

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passes heavier disease since the empyreumatic alcohol 0.000 (September 1900) had new is not only increasing but it causes alon of whe was diminished by the oldium are a tax was levied on the light stone been

as of pasternast the unsampulous retailer will lose a profit, THE WORLD granding of and inclustral metayes, had now is permissions and enormous — one litre of brandy, ey et depokable and enter the public intercourse, thus is to struct the at suppression of the spirit production as ed and the amount of liquors (checked. It would be usehave to see you the maintenance of distilleries by financial All SA Its Tebra salitup to 30 kg We wish to so the duties on spirits considerably height "samer will be repelled from taking liquors, by their hy heavy duties on the spirits the moment But we wish the Gov-

The included dispossions enpyreuma should be care \_\_cosy; the official control a very sharp one.

now in hall thanks, on a rational scale, as the Dutch law does cospensioned with the exigencies and the number of full-An oldinarie statistic is necessary. it is demonstrated by the kept up homes for mebhates Lacuses aught to be given to hquor stations only in struct irun kards and abusers ought to be punished

the excise of spirits of all kinds, and lower it for victuals and enter of the national character being mept for the pledge they winks are impeded by their price or the duties. the is critically a relative progress established if the he were excelled it is a fact—for England; too—the conhigh to consume the light Austrian beer and wine, tea The Magnerates of towns and boroughs should heighten tion of spirits increases, the more taking light and body of 24 per cent, to 30 per cent-volume, are 10377341 . Fre empyrenmatic liquors—holding an

this is an attaina — ; if it ke (the same quantity pays at The Vienea excise on a hectalitie (100 per cent) of

> equal to f fl. 81 kr. The Austrian Inebriety Society has 1.81 fls.—36 fls. 20 kr. with twenty-fold of the actual beer tax, viz.: with 20 by therefore, in 1885, requested the Provincial Diet to tax spirits l'aris 66.50 francs). The excise on I hectolitre of beer is

monopoly. of official liquor stalls inciting the public by the agents of the for our purpose certainly a great danger in the establishment cussion on monopolizing the spirit production, and there is monarchy. The minister of the finances refused any disand will afford about fifty million floring for the whole A new consumption impost on spirits is in preparation,

whole Austria. (a). Austrian Legislation on Inebriety. Laws affecting

severely emotional when intoxicated (Secs. 236 and 523). carelessness might cause a fire. (Sec. 524.) to do with objects easily taking fire, and with servants whose aggravation, if the drunkard knew from experience he was penal laws, 27th May, 1852. (1). Malefactions otherwise craftsmen working on roofs and superstructures, or having (2). Inveterate drunkenness punished as misdemeanor, with case is punished as trespass; it will be considered a particular trated in accidental intoxication; but drunkenness in that reckoned as crimes cannot be considered such, when perpe I. Drunkenness itself is punished in two cases by the

and security inebriety as immorality, but only for troubling public order Neither the penal law, not the new bill on it, punish

trequenter the occasion, the more will be drunk. The liquor saries of the consumers is selling spirits. The poison of stricter way. Among the exceptions granted for the necesa resting-time for all professional and industrial works, in a shops; if possible from Saturday 5 P. M. till Monday 9 A. M liquors ought not to have any privilege. The easier and stalls should be shut as well on Sundays as commercial II Imperial spirit tax, 23d July, 1881 (vide supra).
III Imperial law, 8th March, 1885, declaring Sunday

Inns, dealing with light beverages, will be quite sufficient for the public exigencies.

The same law determines: Auxiliary workmen may be dismissed without warning when inebriated, having been admonished in vain. (Sec. 82.) The payment of wages in taverns and time is prohibited. (Sec. 78a.) Credit of spirits to workmen in factories and to auxiliaries is neither actionable nor accountable (Sec. 78b.), neither between tradeholders and workmen, nor hetween the surveyors or the employers relatives and workmen. As spirits are a general breakfast with Austrian workmen, the Austrian Inclinity Society has suggested the institution of soup and coffee-rooms near the factories. Introducers of spirits into factories are severely punished or dismissed.

The wages eaght to be paid on Monday night, to restrain people from spending their week's pay on Saturday nights or on Sunday, their day of rest.

IV. Imperial law, 1835, and

 $V_{\rm c}$  Imperial law, July 23d, (883) on controlling the cleaning of spirits.

(b) Austrian Parliament, Flonia, March 13, 1885, and May Janual 10, 1887. Chev. E. de Proskowetz (member of the Austrian Inchriety Society) requests restraining inchriety, and desires the ministers to propagate in schools the notion of intoxication's fatal consequences. He desires, accordingly, pamphlets to be posted everywhere.

(i). Provincial Legislation.

I. Law for Gallicia and Bucovina, July 19, 1877 (given by the Austrian Parliament).—This law intends punishing inebriety, and checking the economical danger of drinking-bouts which often by drafts and bills of credit prolongation and analocism, ruin the thoughtless debtor (the debt of 20 fls increased to 1,000 fls in a space of three years, in one case f)

Punishable by the law:—I. Whoever gets drunk, or is found so in public places. 2. Whoever makes another drunk on purpose thereabouts. 3. Inn-keepers delivering liquors to a drunken customer, or to minors.—Penalty—Imprisonment up to one month, or a fine of 50 fts.

Legislation for Thebriety.

The district police are authorized to interdict a person, punished thrice a year for inebriety, from liquor stalls in his domicile and around it. Abusing taxernmen to lose their license for ever, or for some time. Claims from drinking-bouts are not actionable, if the debtor owed such in the moment of entering the new score, or if the claim was ceded meantime. Sham transactions punished by prison (up to two months), or by a fine (of 200 fls.). The laws' text to be posted in all taverns. Omitting this is punishable by a fine of 50 fls. In 1878-83, 132403 persons were punished for offense against this law.

The law contested in 1877 as an "affronting guardian-ship" by the Gallician deputies, proved an efficacious expedient. The Provincial Diets of Moravia, Salzburg, Tyrol, and of Bohemia, have brought according bills, without till now being able to make them pass.

II. Bosnia law, 6th February, 1885 (nearly equal to the precedent)

III. Moravia (Provincial Diet), 1878. A law on inebriety solicited by P. Wurm. 1885. (Idem.) 1885. Alfred Skene's motion on limiting the varidity of drinking-bouts. Chev. E. de. Proskowetz' motion for a new spirit-tax (50 fls. a-sta'l). 1886. H. E., the Governor Count Schoenborn orders, on suggestion of the Austrian Inebriety Society, by a public act, a strict revisal of distilleries and liquor-stalls. 1887. Chev. E. de Proskowetz' motion renewed.

IV. Bohemia (Provincial Diet.) 1885. K. Adamek (Member Austrian Inebriety Society) requests a reform of the inebriety legislature. Lr. Rose: (honorary member Austrian Inebriety Society) requests the selling of liquors in groceries to be prohibited. Dr. Tausche says, the pentions of 1880 spoke of immoderateness, those of 1882, of mebriety, those of 1885, of drunkenness as an epidemic pestilence.

A half drachm of alcohol to each pound weight of the body, is the quantity capable of producing intoxication in most cases. An increase of this is dangerous and often fatal.

Inchricty in Belgium

### INDURING INSTRUMENTAL PROMES MEDICAL AND LEGAL POINT OF VIEW.

Alember of the Bessian Navil Adulating of Medicine BY DR. MOELLER, BRUSSELS,

I experienced a great embarrassment of presenting a communication on "Inebriety in Belgium," When I accepted from your learned president the charge

existence is practically ignored by the civil authority as we'll by us for this great and difficult class of degenerates, whose one most worthy of the solicitude of the physician, of the are no longer altogether responsible for their actions, and to no one in Belgium cares for the state of the unhappy as by the people in general. But let it not be supposed that and at the same time show where we are on this question present to you will make known the work of Dr. Petithan cure or at least amelioration. The short history I shall anyone, but also where they can be treated with the hope of the necessity of providing for such diseased persons asydums countrymen to the danger of leaving uncontrolled those who than, has for many years drawn the attention of his fellowof temperance, my courageous and cloquent friend, Dr. Petiinchriate. One of the most valiant advocates of the cause where they can not only be secure from doing an injury to philanthropist, and of the Christian I have to confess for my country that little has been done

progression of the plague of modern society. I specially men who have raised their voices to denounce the ceaseless comparatively recent with us, though there have always been study the fittest means to arrest the progress of the evil awoke no echo. mention Drs. Durpetiaux, Frere Orban, Lefebvre, Barella Desguin, Jansen, and Petithan. But these voices for long You know that the struggle against alcoholism has been Only in 1880 was an association formed to

\* Read before the International Congress on Inebriefy at London, England,

sidered alcoholism to be a true organic disease, transmitable sixteen to six, with nine abstentions. Great opposition had which Drs. Barella, Lunier, Decroix, Lefebyre, Petithan, and establishments specially organized for their detention and minister of justice. (2) That they should be placed in should be put under interdiction at the demand of the country. They in a moment showed to many persons the many Englishmen took an active part. One of the sittings by heredity. The learned body added this recommendation and physical point of view, upon the individual and upon his precise observations the effects of alcoholism from a material Medicine asked the following question: \*Determine from ion changed. been encountered, which was not surprising, for at that time this sitting Dr. Petithan proposed: (1). That the alcoholized tion of the Belgian capital ought to shut up about eighty signs of alcoholism in eighty per cent, of the autopsies, held of the learned Professor Croig, had discovered post mortem Medicine agreed with the opinions of Dr Rush, and condescendants." between drunkenness and alcoholism. However, public opin-Thus there was then little difference supposed to exist known, viz: that intemperance is often a physical malady Reding took part, and were finally adopted by a majority of probability of the abyss into which we have fallen. At communication and its figures created a great effect in our per cent of the subjects of alcoholic intoxication under his direction. researches in the Brussels Hospital, which agreed with those reducing the inebriefy of the country. He added that his enlightening the public mind with precise knowledge, and pentier of Brussels, who contended for the necessity of was signalized by an interesting communication by Dr. Car-Congress on Alcoholism was held at Brussels, in which which we all deplore. In that year the second International the opinion enunciated by Dr Benjamin Rush was not These propositions provoked a lively discussion in The replies proved that the Academy of In 1881 the Belgian Royal Academy of He concluded that the working popula-Inis

that the observers should endeavor to define the boundary separating drankenness from madness, as well as the responsibility of the drankard for acts of which he is the author. Five memoirs were returned. A very remarkable report was presented to the academy by Dr. Kuborn. The prize was awarded to an original work by Dr. Lentz of the Asylum for the Insane at Tournai, which was published in the annals of the academy. Dr. Tectors of Gheel Asylum received honorable mention for a work which he published. Both writings embodied numerous observations on alcoholism, proving the extent of the evil which ravages our population.

opinion, and at the International Congress at Antwerp in every possible occasion strove to create a sound public present to the chamber a project of law demanding the the temperature. Yet the question made slow progress interdiction of the alcoholized and their restraint in marsons (885) when a hope was expressed that the government trial misery. This commission necessarily occupied itself examine into the causes of the social economic, and indusoccurrences, the government appointed an inquiry to in some parts of the country, and some profoundly afflicting In 1886, following the effervescence of the working classes little was done to make clear the medical and legal aspects Though the economics of incbriety were well promulgated drink plague and its serious results. One of the members country came accounts of the lamentable progress of the with the question of alcoholism. From all parts of the the various measures which had been resorted to to combat of the commission, M. Deridder, Professor of Political Economy at Gard University issued a valuable report on recognized that the importance of this subject is yet far from being to confinement in asylums for inebriates; one more proof the abuse of alcohol, yet he did not allude to interdiction or tier, in a short, useful paper in  $\mathit{Les}$  Chiniques, stated that his However, Dr. Petithan did not rest inactive, and on However, a few months thereafter Dr. Carpen-

former estimate of 80 per cent had not been too high, and gave the following results of his more lengthened hospital experience. In 86 cases (48 men and 38 women), 45 men were inebriates (93 per cent), 4 women were inebriates (10 per cent), of the male alcoholics the youngest was 16 the others from 20 to 55. All exhibited incurable organic lesions, characteristic of alcoholism. One began to drink at the age of 30. 1 at 25, 10 at 20, 2 at 19, 4 at 18, 2 at 17, 4 at 16, 6 at 15, 1 at 14, 2 at 12, 2 at 10, 1 at 8 years of age.

Quantities drunk daily. 3 drank about 4 glasses of spirits; 5 drank about 6 glasses of spirits; 3 drank about 8 glasses of spirits; 1 drank about 9 glasses of spirits; 8 drank about 10 glasses of spirits; 2 drank about 17 glasses of spirits; 3 drank about 20 glasses of spirits; 1 drank about 4 to 2 litres of spirits. Are not these figures terrible? What can one hope for a population which is so drunken with, for the most part, the most pernicious alcoholic beverages? Is it not sad to think that nothing has been done for these unhappy victims of this most inexorable and degrading passion?

It is with lively satisfaction that I refer to a fact which will show that our efforts have not been altogether sterile. The minister of justice has presented to the legislative chambers, measures repressive of public drunkenness, though they do not touch our special project. But the Prince de Rubeinpré, who has been entrusted with the preparation of the report, calls attention to the labors of Dr. Petithan and points to what has been done in England for the treatment of inebriates, while directing the notice of the Belgian government to this

On the roth of April last, the president of the council of ministers received a deputation from the Belgian Patriotic League, against alcoholism, when Dr. Petithan presented starting facts on legislation for mebriates, which created considerable impression

On the 12th of June last, the League devoted the most of its sitting to the discussion of interdiction of the alcoholized, vol. 1x—3:

when Dr. Petithan and I were accorded a patient hearing, and an interesting discussion ensued to be resumed at a future date

called to judge a citizen. Actually interdiction, at present, administration of their substance, the direction of their unworthy or incapable of exercising. These rights are the vidual is deprived of certain rights, which he is held to be Intendiction is a judicial decision, in virtue of which an indidiction of the inebriate, 2. His seclusion in special homes with us a growing demand for these two measures. I. Interincrease of alcoholism in all grades of society. urgency of which are still further deepened by the continued to a satisfactory solution of this problem, the importance and cile, and yet be meapable of properly exercising civil and alcoholized may be neither demented, nor furious, nor imbehes only in dementia, madness, and imbedility. Now the elections, making part of a constituted body, such as a jury family, the disposal of their fortune, taking part in political political privileges. It seems, therefore, that we are coming nearer in Belgium

Is it necessary to resort to this interdiction? Wes, for the alcoholized himself, who will be placed so that it will be almost impossible for him to satisfy his passion, for his family, whose honor and patrimony will be safeguarded; for society, for it is dangerous to trust any part of the government of a country to one whose freedom is enchained by a vile passion, and whose intelligence is completely obscured by a profound and permanent poisoning. The interdiction would apply only to the alcoholized who are not dangerous to themselves or to others. On the other hand, it only feebly augments the chances of cure. If it is wished to put the inebriate in the condition most favorable to cure, it is important to place them in institutions created for that purpose.

Two questions arise. I. In Belgium, as elsewhere, it is necessary to have a new law to seelude in a special home mebriates, whether they are willing or unwilling, every time

that the need arises. In practice, one can forfeit the liberty of the alcoholized only when attacked by delirium tremens, and they must be set free as soon as the attack has passed, or, at least, there no longer persists a diseased craving for drink; in other terms, the symptoms of a veritable dipsonania. This is what I gather from the terms of a circular of the minister of justice

As method men, we are in the greatest difficulty in the presence of the alcoholized, who are not laboring under delinum tremens; who have only interiattent mebriate paroxysms, and who would benefit greatly by being retained in a special establishment.

Objections are raised to our contention. It is urged that it will be difficult to distinguish between those who are and those who are not, alcoholized; that the gradations between moderate drinking and drunkenness are so insensible as often to be extremely difficult if not impossible to discriminate. But we may reply that there is the same difficulty in the case of the insane. There is the same insensible gradation between the most sane and the most diotic. Are we, because it is difficult to place in different categories those who are difficult to class, either as insane or incluste are we to besitate to compulsorily restrain those about whom there is no doubt whateveer?

We can shut up only those alcoholized who are dangerous to themselves or to others. Here is the principle to guide us. Acting on this the embarrassing cases will be

2 The second question is, should we ask the intervention of the state in the establishment of asylums for inchriates? I do not hesitate to pronounce in favor of the institution by the government of these establishments. It is not that I do not recognize the generosity of my fellow countrymen. The philanthropic and charitable institutions which cover the soil of Belgium attest their benevolence. But I fear that a private initiative will fail from the widespread prejudice that "who has drank will drink." We meet

The Herman Murder Case.

eties in the rescue of drunkards, prove that it is unfounded. does not care to enter upon any course of which it does not it would paralyze for a long time a private initiative, which So false and prevalent is this baseless prejudice that I fear The results of the efforts of numerous total abstinence socimost ranks of the temperance cause. this prejudice everywhere, even in men who are in the foreclearly see the issue. The prejudice is talse

results, which might for long sadly injure the great work of opened for the object of gain, as well as for the sake of good idea of the treatment of the alcoholized. Asylums can be ual action, is that we might see speculation hinder this which we hope to see the realization A first trial, injudiciously essayed, might yield deplorable Another reason which makes me prefer state to individ-

inebriates in my country. You will pardon me. I have alas! only regrets to express. I am tempted to reproach stimulate my countrymen to accomplish what has already not have been the means to attain my end, to be able to tion of Belgium a discreet and patriotic veil. But this would good sons of Noah, and thrown over the alcoholized condihaps, have done better to imitate the example of the two placing before you the blots of my fatherland, I would, permyself with the length of my communication. Instead of been realized in the beautiful country of England where all generous ideas always find men and devotion ready to put them into execution. I have, gentlemen, dilated at length upon the state of the

appears to be almost in the nature of a miracle, are seen every day at Dr. Shepard's Turkish Rath Sanitarium at work on the excretory organs to get rid of the waste of the ties of foods, show that certain articles of diet entail double every day at D Brooklyn, N. Y. signal service in many cases. Cases where the restoration has a great tuture in practical medicine Some recent researches into the energy-producing quali-This explains why the turkish bath is of such a Is is evident that this therapeutic agent

### THE HERMAN MURDER CASE

By T. D. CROTHERS, M.D., HARTFORD, CONN

at Buffalo, N. Y., November I, 1885. Seven weeks later, executed February 12, 1886, about fourteen weeks from the December 21st, he was tried for this crime, found guilty, and time the crime was committed Charles Herman was arrested for the murder of his wife

point brings out some very interesting conclusions. A study of the evidence in this case from a scientific stand

suspicion of her infidelity. This had grown into a settled about forty-two years of age, and had drank for many years, and attempted violence to her. He was not often stupid served man, but when drinking talked of his wife's infidelity and commenced to keep house again. crime he sold out his furniture, tramped to Chicago and back worked at his trade as a butcher, but changed places often five years. When after drinking he manifested an intense years, and lived happily with his wife up to within four or inability to pay for it. He had been married for eleven seemingly governed by no other motive except his ability or sian by birth, could give no history of heredity. He was homicide seemed to be unquestioned. The prisoner, a Pruschanged in conduct and manner. when drinking, but was irritable and suspicious and greatly and threatened to kill her in the hearing of some triends conviction, although there was no evidence that it was true. On several occasions when drinking freely he had quarreled probably because of his drinking. Two years before the When sober no reference was made to this suspicion. He The following facts in the history of the prisoner and the He was a quiet, re-

In regard to the crime, it was in evidence that he had

usual only his wife was not with him. The absence of his day with his wife as usual. On Monday, Tuesday, and on which the crime was committed, and was seen on this He was known to have drank beer and spirits on the Sunday although not intoxicated, was under the influence of spirits been drinking freely every day for a week before, and ing his wife on Sunday evening, and placing her body in the with her throat cut. He was arrested, and acknowledged killwife ereated suspicion, and from a search she was found in bed Wednesday he was noticed coming and going drinking as and made no clioit to escape. When arrested in a saloon every night. He seemed to have no conception of the grane bed and sleeping with it for three nights from Sunday to he talked freely, describing the incidents of the murder, give Wednesday, going away in the morning and coming back spirits, and could not sleep. This passed off in a few days, down and cut her throat. A few hours later, in the jail he would not stay in when he asked her hence he threw her ing no reason for it, except that his wife was going out and became restless and very nervous from the withdrawal of and unconcern about himself. assert up to death, and also manifested general indulterence forgotten every detail of the murder. This he communed to then he denied all memory of the past; claiming to have

The following conclusions from these facts were fully sustained by the testimony: 1st, The history of the prisoner was that of an inebriate who drank steadily whenever he could get spirits chiefly beer and whisky. He was unthrity, and changeable in his character and habits. His suspicions of his wife's infidelity give with the increased use of spirits, and finally culminated in the murder. 2d, The circumstances of the crime, the act itself, and his obliviousness to the consequences following from it, also his conduct at the time and later, with the absence of all reason or emotion, suggested some form of insanity. 3d His conduct in jail, after the first few days when suffering from the removed of alcohol, was not unusual. He was very reticent

but acted with reasonable sanity; the only fixed idea concerning himself was that the man she alleged to be inhinate with his wife was responsible and should be in his place

The defense was insanity and irresponsibility due to also hol, and probably alcoholic trance. This was based on the history of excessive use of spirits, with the usual characteristic delusions of marital infidelity. The trance state was indicated by his conduct after the etime and general inhilities ence of the act and its consequences, also the automatic tharacter of the crime, done in the same way he had been accustomed to kill animals. His first recital of the details of the crime, then loss of memory of all these events was also characteristic of this state. His crime was probably committed in a trance state in which he was oblivious of what he was doing, and most naturally acted automatically from an insane impulse and in a state of partial dementia.

The proxecution denied all evidence of insenty and chimed that premeditation and britiality marked all the symptoms. The medical witnesses for the prosecution doubted the existence of alcoholic insanity and alcoholic trance. Two medical men were confident that spirits could be used for years to excess without causing any degree of insanity or mental impairment. One physician swore that he did not think it was the alcohol that intoxicated. The usual hypothetical questions were answered in the usual dogmatic and confused way. The possibility of insanity was doubted because the prisoner did not then appear like an insane man.

The judge's charge to the jury entered minutely into the question of premeditation and knowledge of right and wrong and responsibility of mehrates. The letter of the law was followed closely, and the jury was told to discriminate on questions of fact and science which were clearly beyond the mental range of the judge or even the most scientific experts to determine.

The verdict was guilty, and the prisoner manifested the same indifference to his condition up to his execution

The Harman Munder Case.

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g leged exidence of long premedi-Series of the state saves many things programme of the progra the second of th desenting from spirits. He had bad his wife and had The The It's affect is a leared was regarded as prior of The last that weath Herman exhibited delun server a weasons, but the fact that

> of her when drinking, was strong evidence of his mental good-natured quiet man, and only writable and suspicious that when soher he did not complain of his wife, and was a sible and dangerous than if stapid from spirits. The fact temper. In reality such persons are more insure irresponaberration. sanity, and such acts were called willful and signs of bac

disordered brain. No apparent same realization of his acts are found to be only a mask. They are the really dangerous meditation in thought and act, which from a careful study, trequently exhibit a degree of mental soundness and preor conversation could after this fact. Such cases not unsions of his wife's infidelity, was evidence of impaired and or less concealed. lasses of the insane, because their mental condition is more 5th. The fact of drinking to excess, with peculiar delu-

murder committed in the way he had butchered animals more before the murder and on the day of the murder he interred. On the contrary, e seemed probundly oblivious to what he had done, and not only threw the body on the ing to escape or conceal the crime or given himself up with before. Had he manifested a realization of this act in try A quarrel with his wife was most natural, resulting in a was in a menial state fully prepared for some insane act pable of realizing the nature and character of his acts turbed or different from what he had been before. bed but laid down and slept three nights with the corpse reasons and explanations, some sanity might have been interred. On the contrary, a seemed profoundly oblivious duct was unmistakably that of an insane man, and one inca He drank during the daytime, and seemed in no way dis 6th llemman was using spirits to excess for a week and

memory or recollection of them, whether real or feigued details of the act and then when he recovered, losing all comprehension of the nature and consequences of his acts was not that of a sane man, or one who had any clear Alcobolic trance was a condition likely to be present. The His conduct after the crime, in giving all the

character and manner of the crime would point to it, but his statements after, unless confirmed by other facts, would not be positive, but would only sustain a supposition of this state.

Sth. His conduct and appearance in Jah after the first tew days might not give any indications of his real state. The absence of delusions, hallucinations, or any gross physical symptoms of insanity was by no means evidence of a sometimed or responsibility.

the conduct and acts of the prisoner were said, and that the conduct and acts of the prisoner were said, and that evidence of instantic must be found in his present appearance and conduct. His apparent sainty in act and thought and the general good physical condition systamed their views on fall responsibility and mental health. These examinations were innited to one or two interviews of an hour or move, and were made with a view of farding some well-remod symptoms of instanty. No scientific study of the case seems to have been made. Each witness apparently mought to the case a group of symptoms by which to gauge the mental health of the prisoner. All previous conduct, agless marked by great mental aberration was not considered.

Total In reality from a scientific study if the facts of his methyletz were true his brain was impaired. He was practically a limital, incompletent to Judge of his acts, and his power of control and responsibility was certainly infaired. The crime and his conduct after sustained this interence. His general indifference of manner and interest in himself and future was further evidence.

The hasty trial speces execution, and failure to comprehend the criminal and the crime and the pressure of public sentiment were all immical to justice. The progress of humanity and the cause of truth gains nothing by taking the life it a poor alcoholic imbecile, while the intelligence of the algority and the application of mediaval theories of number responsibility and divine vengeance. Whatever the

law may be concerning crime committed under the influence of spirits, science demands that its application shall be along the lines of natural law and observed fact. If Herman was of sound brain and capacity to realize the nature and consequences of his act, the punishment by the law was just; but if Herman possessed a defective brain and impaired consciousness of his acts, such punishment was a crime, as much so as the murder itself. Security to life and prevention of similar crime can never be secured by the injustice of taking the lives of irresponsible persons.

difficulty of physicians in deciding on the brain health of come for a change. The progress of science demands if will go on committing crime just the same. The time has untertunately, is not uncommon in this country. justice of Herman's trial and execution was grave injustice also could not be decided under the pressure of public character of the crime called for a special study that could have been the subject of scientific study before it was brought prisoners in a few interviews make it impossible to seeme and execution of Herman is beyond recall, but the failure to and was only another example of Judicial murder which feeling. The conclusion is inevitable that the supposed not be limited to a few observations by physicians, and the ends of justice in such cases. Herman's case should The confusion of courts, the uncertainty of juries, and the the crime of such persons. into court. serve as a landmark and warning in future cases. realize the true condition of the man and the crime may The hanging of insane and idiot criminals never checks The inchricty of the prisoner and the peculiar Other Hermans and Ottos\*

• At the time of the trial a poor limatic, Peter Otto, was under sentence of death for wife-marder, and, arthough bravely defended, was farily bing. The same strange medical testinions and miscondeption of the case prevailed. The strange defins on that both Highwarrand Otto were same pervaled the contraint community, and was a strong influence in both trials. Later reflection strengthens the conviction, that both cases were said judicial bunders, in which two it responsible into were punished as same and responsible.

### Abstracts and Heriews

### EFFECTS OF TEA DRINKING ON THE NER-VOUS SYSTEM.

Dr. Bullard of Boston, in a paper read before the Massachusetts Medical Society on the above topic, draws the following conclusions:

t. Chronic tea poisoning produces a condition of britability or hyperexcitability of the nervous system, and does this both directly by the action of the tea upon the nervous system, and indirectly by the production of gastric derangement.

2 Tea taken directly and in moderate doses, for a considerable period of time, tends therefore to place the nervous system in a condition an which it is more nearly affected injuriously by slight external influences. It therefore favors the production of many forms of functional neurosis, and if such neurosis already exists, aids in their continuance.

3. There is no evidence that tea taken in the manner described, causes any organic nervous lesion, but it is probable that if such nervous lesion should exist, tea thus taken might tend to cause an aggravation and continuance of certain symptoms.

4. There is no evidence that chronic tea-poisoning produces unaided any serious functional neurosis, in a person not in any way seriously predisposed thereto. It does, however, in a manner above described, act as an important factor in the production of neuralgia, hysteria, and allied affections.

 When taken constantly in very large doses, dyspeptic symptoms usually intervene before irreparable harm is done to the nervous system.

6. In hemicrania, and possibly some other functional neurosis, there is probably a craving on the part of the ner-

vous system for a slight stimulation, which is better afforded by tea, than by any other equally accessible article, and for this reason patients with hemicrania are so frequently teadrankers.

#### TOBACCO AMBLYOPIA

The following extract is from Dr Woods late work on "Nervous Diseases"

this lesion is directly produced by the poisoning and is likely there has been much discussion as to which of these agents importance. The most common, and the most important of system, the separation of toxemic amblyopias is of practica to be recovered from, on removal of the poison from the sees better on dull days, and in the early morning and even vision is very bad in direct sunlight. He almost invariably or awkardness in going about, but especially complains that not drink, and tobacco seems to exert the more potent influwas the cause of the optic derangement. The amblyopia is has been associated with an excess in the use of alcohol, and the class, is the loss of vision produced by tobacco. In a shown by testing vision with type in full daylight, and again ing. If this be not noted by the patient himself, it may be frequently present in those who smoke excessively, but do large proportion of cases the excess in the use of tobacco show that a great functional defect is in the center of the in a darkened room. An examination of the visual field will "white" or "gray," and the latter as "brown" or "no color particular, the former is usually described by the patient as is especially marked for the perception, for green and red in not absolute;  $i.\ e.$  loss of vision in it is never complete. It ponding to the disk). This central scotoma is relative, and towards and often immediately beyond the blind spot (corres-field, occupying an oblong or oval patch, which extends from "Toxamic ambloypia is usually of organic origin, but as The victims of tobacco amblyopia shows no difficulty in most cases the scotoma is smaller that the visual

Alson's and Keriew

nerve axis. It has been asserted another one cases in which chastly the to the clumes in the pempheral partion of the ably automically symmetrical, accupying exactly the same very small the. The scottenia of tobacco ambivopiasis invus recognitive the relation of a large body, and mistake that of a olivatives. present because the second in which these soldies are the Later content colors, creen and led and braice a zone is on all sides, that the cause is alreahol. The lidward states, position in each retina. It is believed by orulists to be the passents were smokers. And Dr. G. De Schweinitz has thowever, that in all cases of such scotoma which he has seen the statema is central and sumounds the fixation specephally neither alcahol ner whater, but made eight; - and in whom reported an example of such scoromain a woman who used is mare injurious than smoking. investigating it should be remembered that ellewing tobacco the eves because normal after she lan the becapation. In This is especially the reason that the patient will

## THE AUDITAL ASPECT OF PARKETY

The faiture of prohibition to prevent drunkenness must be generally admitted. Notified the enactment of constitutional amendments, the appointment of special police, for the malification of temperatics societies has brought to the world of the community that decrease and disappearance of inchricty which the advocates of these measures have promised.

This initure to prevent inchalers by legislative enactments is due to a total musconception of the nature of the eval which it is desired to cradicate. Drunkenness is still looked upon and menual by the law as a vice, just as it has been in all ages since it has been looked upon as an evil at all. But in the medical mend there has been gradually growing the conviction, that even while it may be too broad a generalization to say that all drunkenness is disease, nevertheless it is uncounterly, true that most habitual drunkards are diseased, and should be sent to the bospital instead of the juil.

imperfeet health, his behavior as correct, and his moral sense recurrent mania or of epilepsy. There is the same uncrya of the periodic drankard, and compare his case with one of any moderate dimker and he avoids excess. Then comes dually but his appealed is as much under control as that of us sharp as that of any man; during this interval he may between the intacks when the subject is to all appearances formatte victualis then seized with an uncontrollable desire not to drink as is often represented, but to get drunk tiste as possible. When the desire for intoxication is exand lead him to posts the drink down Jus throat with as little indeed the caste of Dajuor may be even disagreeable to Juni the end and not the means which is uppermost with him, the neack often presented by a well-marked anci. The unhausted the paroxysm ends. Take the commonest form of thebriety, for histonic, that ]t is

The close relationship of instantiv spilepsy, and mebricly is also strongly shown by the remarkable manner in which through heredity, one form of disease may pass into another as where drumkenness in one generation is followed by epicates elegible to instantly in the succeeding generations. This indicates elegily a similar cause in the existence of a morbid condition of the nervous centers although the changes have so far escaped the increaseope. This pathological condition is spoken of by writers on mebricly as the "neurotic diathesis" of an "alcoholic neurosis". Although we do not know exactly in what the change consists we can refognize its consequences, and feel sure that in the determination and abolition of its causes lies the true and rational treatment of

The signs of the times all point to the rapid approach of the recognition of inebriety as a disease, and our descendants in the next century, will no doubt denounce the cruchy of our present treatment of the inebriate with as much energy and justice as we condemn the use of the scourge and chains in the treatment of the insane a hundred years ago.— Edinal In Monthaueston Lauret, of St. Paul, Monthaueston

### DISORDERS OF MENORY AND CONSCIOUS-NESS

accompanied by nathriese changes in their bodies. A nutriconsciousness, or secretion, the generation of nerve force by not whether the functional act is connected with thought, is, therefore, hable to be permanently affected by its own especially pronounced in nervous tissue. All nervous tissue press permanently the part implicated, and this tendency is tive act, although temporary, has a distinct tendency to imthe ganghouse cell and its transmission by nerve-fibre are of alcoholic trance: "All-functional acts are accompanied irritation be at once removed, the fit does not recur, and the ficus produced by a periph ral uritation. If that peripheral consideration of treatment of disease. of memory in nerve-tissues is of great importance in the acting - stimuli, the thing remembered, being in fact the the faculty of being permanently impressed by temporarily physical. All nervous tissue, therefore have memory. i. c., definite series of nervous discharges and fransmission occur nerve-centers until in response to appropriate stimul, a child in learning to walk by repeated efforts frams the lower equally to mormal and to pathological activities. Thus the functional actions. This, it must be remembered, applies by, or dependent upon, a nutritive disturbance. continue after the removal of the irritation, simply because taken away, but produce a series of convulsions, the fit may patient is cured. It, however, the irritation be not soon functional excitement. The recognition of the universality This, in short is the history of all training, mental and independently of the will, and walking becomes automatic force is the immediate cause of the epileptic paroxysm of the permanent impression which has been made upon Lir intervals they fill up and discharge nerve-force owing to those cells in the brain cortex, whose discharge of nerve-The nutrition of the cells has been so altered that at irregu-The following extract is very suggestive in the pathology Thus an epileptic . It matters

> so-called habit-chorea, movements at first controllable, mere is unable to control it. An example of this is seen in the manently engrafted upon the nervous system that the patient this power of memory a physical habit may become so per over the lower nerve-senters. What is true of the lower system so that in time she may lose all power of control power. The hysterical woman who gives way to hysterical had habits, become at last fixed, not to be altered by any themselves upon the centers connected with them, and when nerve centers and fibres is true of the upper ones. Intel nervous impulse, thereby strengthens their hold upon the to conscious memory, r. e., to memory in the usual sense of ness, the changes which occur in the nutrition give origin the function of the nerve-cell is connected with consciouslectual acts, or thoughts and perceptions, tend to stamp — Dr. Wood in Mercous Diseases

## THE ZURICH CONGRESS ON ALCOHOL

as doing great work. Coffee-houses and halls were also ing excess in spirits. Temperance societies were considered of alcohol in the sick-room, no agreement was reached. One reached denying all nutrient value. On the medicinal value the food value of alcohol, a unanimous conclusion was at Zurich, Switzerland, last August. On the question of physicians discussed the subject of alcoholimallits phases stringent laws for the control of the sale of spirits. governments, raising the tax on spirits, and forming more movements were mentioned in the pressure on the various urged as valuable. The valuable influence of these various physician urged vegetarianism as the best means of prevent bring out many new facts Kerr of London, sent a paper on Inebriate Asylums, which was read. The official report when published, will, no doubt A large gathering of statesmen, philanthropists, and

Opium and alcohol should never be given as a medicine long to children who are feeble minded or of weak unstable organism

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Encircument. A story of modern society, by Florin Thayer McCray. Funk & Wagnuls, publishers, New York etty. 1887.

This story is chiefly of interest from the fact that the become is an inebriate, a lidy in good society whose drinking is concealed, and who finally recovers. The author is evidently a wide reader of fiction, but not a close student of human nature. The picture of an inebriate woman is more ideal than literal, and the views of inebriate woman is more meni urged by her characters are open to very serious objections. The tone and style are markedly that of an amateur. Yet the author and her book is to be commended for this first attempt to portray the rapidly increasing class of inebriate victims in high life. Other and more accurate studies in this field will bring enviable fame to thus author. The publishers have issued an attractive volume.

Materially, Infancy, and Childhead, by Dr. John M. Keating, J. B. Lippincott & Co., publishers, Philadelphia, Pa.,

This is a most excellent hand-book of practical lessons in nursing, written by an accomplished physician in a vein of clear strong common sense. It is a book that can be placed in the hands of laymen with great satisfaction and profit. This book contains 225 pages, being pleasantly divided into chapters and headings that greatly facilitate the pleasure of the reader.

The Science Weekly is one of the best journals that a scholar can have to keep abreast with the times. It is edited with great scientific skill and its pages are thoroughly reliable. No more acceptable present could be made than a year's subscription of this excellent journal. The subscription is \$3.50 a year. Address publishers, 47 Lafayette street, New York city.

The Farmal of Morphology has appeared, devoted entirely to zoological literature. Ginn & Co., of Boston, are the publishers.

The Scientific American grows in interest each month, until it takes rank, as a need to every thinking man with the great dailies of the world

The Open Court is a journal published in Chicago, in which all phases of religion and science are discussed with charming frankness and dignity.

The *Demorest Monthly* comes freighted with a rich table of contents, to an ever increasing army of readers. Its influence for good is in pleasing contrast to many more pretch trous rivals.

The Climatologist is a quarterly, published in Baltimore, Md. The editor, Dr. Rohe, brings to this new field a rare experience and culture, giving success to this journal from the beginning.

The Electrical Engineer, published at 115 Nassan street, New York city, is a monthly review of theoretical and applied science in electricity. It is a journal of great value to all scholars and thinking men.

The Homilatic Review is a theological monthly, edited on a generous, broad plane, appealing to scholars and thinkers of all classes by its vigorous, stirring thought. Funk & Wagnals are the publishers, New York city.

The Humbolit Library, published by J. Fitzgerald, 24 East 4th street, New York city, is a great educational work placing the best scientific works of the age within the reach of the masses. Send for a catalogue.

The Popular Science Monthly has published some of the most important contributions to science this year. The September and October numbers are volumes in themselves, which should be read by every student of science. D. Appleton & Co. are the publishers, New York city.

Michical Classics, a monthly devoted to a study of the writings of the fathers in medicine, is a most commendable effort to place the views of antiquity before the modern English reader. The two numbers before us give great promise for the future. It is published in New York city, at one dollar a year.

#### Editorial

#### THE INTERNATIONAL MEDICAL CONCRESS ON INTERRITY

influence will go down into the future, long after the parties specied at: yet, in character and spirit it marked the begins thive number of physicians was apposed enticized and devoted to all departments of medicine, and called together pants are forgotten. The congress at Washington was widely different gatherings of physicians, whose work and mug of a new epoch to the progress of medical science. this congress, not only exhibited an aggressive energy and beyond all comparisons by any old-world standards application of the laws of prevention and cure of disease restless freedom from prestige and theory but a practic The papers and discussions of the American physicians at This year will be eventful in medical history for two

physicans and friends gathered and listened to the reading of a new horderland realm of disease. Thus than a hundred of includes, and was the first international convention of a full reports, and the medical journals gave abstracts, and the effort to study those cases; the daily papers gave brief ing men of all professions expressed then warm sympathy in terminated with a banquet, in which over two hundred leadand discussion of twenty or more papers. The session little hand of medical explorers who had crossed the frontiers or criticism was heard. In this country—except a lew brief notices of this congress; the temperance weeklies published In reality, it was among the most unportant medical events of nonces in the medical press—no reference was made to it. thus the event passed into lustory. No loud voices of piaise the century. It was, practically, the first general recognition The congress at Lymbon was for the study of the disease

was under the control of law which could be understood and vast army of inebrate defects are to be transferred into the disease and curable in hospitals, is the beginning of a great prevented by the screntific study from screntific men that all this great tide of evil, coming from the excess of dribte of the eature and causes of inchiely. disappear in the evolution of a broader, elearer knowledge temperance theraics and efforts to reach the incliniate will realth of medical sevence for study and treatment. The revolution and evolution in the science of medicine. The The central idea of this concress, that mebriely was a

sciontific study, and be known with all the means of cure and ranges of causes now unknown, will come into the reulm of which the complex forces of heredity, surroundings ford cutture, mental and physical strain and deain, with all the vast This congress marks the beginning of a new era, m

had been practically tested in the last quarter of a contains statements of a thousand years ago, concerning mebricly medical research. It appoinced that the intimations an was the tormal opening of a new realm and territory for vances in the general science of healing, the one at Loudon and were house to be true, in a wider sense, than ever before and cutable, and this great borderland region of disease was conceived. That the vast aimies of mebriales were diseased cure of mebrates was organized, and this congress was the of this association these years, receives a grand uplift from The confidence and fasti which bas inspired the members first world wide endorsement of our work and its objects past. Sixteen years has passed since our association for the to be reclaimed from the superstitions and theories of the this event. The congress at Washington was a record of the ad-

world's great new field for the increation and cure of human beyond the monopoly of any society or individuals. It is the ills and human sufferings. Inchricty, its study and cure, is carried by this congress

### SEXUAL INSANITY IN INTERRETY

inobriety has been established and seem to be the result of with the most entranglinary sexual perversions and meanidition predisposes to morbid sexual impulses which merge some unknown state. In a third class, some congenital condeveloped. Here it seems to follow as a reflex irritation of inebriety and dies away when the drink paroxysm is fully some central nerve uritation. In other cases it precedes the appear early in all cases of inchricty, are often associated into inebricty, and alterwards, when one is active the other is unnoticed, and vice versa-The psychical paralysis of the higher brain centers which In most cases these morbid impulses follow after the

spective of all social and finally relations. The boldness mistress and pursue a line of most unusual conduct, treviously moral will consort with the lowest women, or have a has begun, sexual pregularities appear. Thus, a man preand impernosity of this conduct suggests disease and failure noticed among the steady and constant drinking inebriates tollowing inebriety that is very grave. It is more often as ociate with fast women. In these cases such conduction gave no reason for this. A professional man of high stand house of ill-fame, appeared in public with the inmates, and brain injury. Suddenly he became a constant visitor to a hre family, became an inebrate, dating from an obscure As an example, a man of excellent character, married, with of the brain to realize the nature and consequence of acts indicates a sexual defirium and degeneration associated and ing became an inchriate, and began to keep mistresses and In the first class, most commonly noted, after inebriety

sexual impulses. He will consort with many women each in a case under observation a man of correct habits will for present. Such cases are often periodical inebriates. Thus drink paroxysm, there is always a marked neurouc element day, have sexual dreams at night, and conduct himself in a two weeks before drinking, manifest almost ungovernable In the second class, where sexual exaltations precede the

sexual impulse dies out. Long intervals, sometimes months very unusual way. I inally he becomes intoxicated, and the are always creations of her imagination ysm, by the most scandalous stories of sexual wrongs, that society, exhibits this erotic impulse before the drink parox topics. A female inebriate, occupying a high position in houses, and show itself in voluble conversation on these women, and secret journeys to large cities, visiting bad In other cases this impulse will begin with intrigues with follow before it returns, during which he is entirely abstinent

neurone constitution inebriety seems to be only another marked by masturbation intense sexual activity early in life impulse dies away. The history of such cases are often to use strong spirits, become intoxicated then this sexual for a time. Such cases go from one house of prostitution to strange periodicity in which the sexual impulse it dominant phase of the diseased state. Often in these cases there is a from childhood, both congenital and acquired, founded on a anothe, , rarely drinking anything. After a time they begin impulse seems to gather and explode like nerve storms of seems to have grown out of the surroundings, and the sexual and other irregularities. The inchinety is paroxysmal, and epilepsy or hysteria In the third class, where sexual perversions have appeared

will always suspect his wife or those about him of the same are marked symptoms. A husband suffering in this way pleasure in dwelling on the details of such acts. impulse becomes paralyzed, but the mind exhibits a delinous immorality. In some cases the capacity to gratily this In all of these cases delusions of the infidelity of others

on inchmety and its treatment. controlled by a blind irresistible impulse. Practically, a yet when carefully studied appear like the acts of a maniac been regarded as entirely within the control of the person knowledge of these associated insanities thraw much light The sexual crimes committed by inebriates have always

an unknown field that comes under aimost daily observation These facts are presented as only lunts and suggestions of

consuiting physician. This, in itself, is an evidence of the serve as a model to be copied after. Dr. Norman Kerr is the charge of the branthwaith as superintendent is indoubt really a madem hospital, where the discuse of inclinity is levels of Each and superstation. The Dairyaple Home is thorough scientific treatment of the inclinate above all non Landon it has many attractions. This with the admirato day. Situated in a rich farming, country a lew miles out cally ome at the dest equipped mebrate asylums in Europe and bandage are applied until the poor fractured incitiate known to modern seignee. It is practically where the splitt He plan of management some and spirit of the place may bounded by a viver on one side, and overlooking a fine recovers. studied and treated with the best means and applicances more interest is centering than on this Dalrymple Home There is probably no new work in all Europe upon which whose presence inspire confidence and respect everywhere The superintendent is one of those cheery scientific men farming country, add greatly to the beauty of this place briety in Europe will turn very largely. On its progress and sneess the future treatment of the The Dalty apple Ham, at Rickmansworth, Fingland, under The cheerful quiet and seclusion of a large pack

The Norman Kerr of London, England, its one of the most advanced students and writers on the subject of inebrict; in Europe. His papers and addresses have become authority, and are copied very widely all over the world. Mr. Chang Luif of the Chinese Embassy at Washington, has translated parts of his late address before the International Congress of inchinety, for the special notice of the Chinese Emperor.

A study of the mature and causes of inebriety shows clearly that, to a large degree, it is as positively preventable as small-pox, typhoid fever, or diphtheria.

The theorists are unwiding to acknowledge that inebriety is a disease after having so long denied this fact, so they seek a compromise. They must save their old theories; by showing that they were ball right. Hence they assert that all cases are at first sin and vice, but later may become fisease. This is a repetition of every dying theory, seeking to live on the fact that they were partially right. Precedent instore, and the hibbe, are called in to sustain the old dogma, but, like the horns at Jericho, the louder they sound the more perfect the destruction of the walls.

A young man with an unstable nervous organization becomes reduced in health and is subject to contagion of drinking companions uses spirits to intoxication; the result is, his physical system takes a diseased tendency which quickly develops into inebricty. No matter what the surroundings may be, he is under the control of diseased impulses, which carry him faither from heilth and sanity.

The vaso motor paralysis, following the use of alcohol, interferes with the venous circulation. The blood returning from the extremities fails to bring all the carbon and other excrementious matters. The exchange of oxygen is interfered with, and a species of oxygen starvation comes on, resulting in laty degeneration. Atrophy, inflammation of the nerve extremit (es, called neutritis, comes on

In the treatment of mebriates, it should always be remembered that they are suck people with damaged brains, which are more or less capable of being repaired, such repairs being a slow process requiring a combination of physical and mental-remedies, and long time with rest. If they cannot be curred, they can at least be improved, and should always be treated as wards of society instead of its enemies.

Clinical Notes and Comments.

by alcohol. is frequently due to some organic disease of the brain caused Epilepsy which develops after the thirty-fifth year of age

manutacturing purposes, the other ninety per cent being spirits consumed in this country are used for medicinal and used as a beverage Dr Webb asserts that only ten per cent of the distilled

matter of the utmost consequence, of immensely greater inpartance than any amount of so-called temperance agitation. Latin and in Northwestern Lancet. The study of meloricty from a scientific standpoint is a

endest in inchaiety will moss heartaly endorse. saved if the physician had been called two or three nons but to treat his lorefathers is a fact that every spe-D). Holmes's remark that the patient might have been genera-

facts, a description of cases and phenomena which they pre-sent. Tater comparisons of these facts and records will be made and the laws which govern them will be deduced The scudy of metricity to-day is largely the record of the

out asks if this has ever been observed before? also what rise to 110° and remain there for some time. A correspondexplanation can be given of it? become extinct the temperature of the body was observed to In a case of death from chronic alcoholism, after life had

may be said to be one of the best in the market Tundsay & Blakeston's Visiting List for 1888 is out and

Resides the presidents address papers will be read by Dr Kerr of London, Drs Wright Day, Scarcy, Mason, Mann, Crothers, and others. (beir semi-ahmal meeting in Brooklyn, N. Y , Nov. 2, 1887 The Association for the Cure of Inebriates will hold

The New York Medico-Legal Society will discuss the Medical Junisprudence of Inchairs at their regular meeting. Nov. 2, 1887. Papers on the medical side of this topic will be presented by Dr. Keir of London, Drs. Wright, Jarush, Mann, and Crothers of this country.

> incomparable, giving almost instantaneous relief, and prophates of lime magnesia potash, and ron, with fire phose ducing refreshing, dreamless sleep ache, nervousness, dyspepsia, etc., etc., it will be found or prostrated energies, weakened vitality, exhaustion headphonic acid. For the various disorders incident to wasted Horsford's Acid Phosphate is a preparation of the phos-

days, and take advantage of the reduced rates. sold in this country. Send for a price list before the holi-Art Publishers of America. Their sieel plates are the finest George Sunson & Co. of Portland, Maine, are the great

most excellent food, which has w international reputation neers in placing within the reach of every physician this and is used in all civilized countries. The Anglo-Sauss With Co. of New York city, are pio-

spirits in cases of inebriety with most excellent results. Colden's Beef Tonic has been used as a substitute for

in many cases of inebriety and insomnia. They are specifics in the hands of many physicians. Bronnidia and Pupine have become household remedies

tonic. In all cases of debility its effects are very marked dies whose value is universally recognized. It is a nutritive Undopentue has won a permanent place among the reme-

admirable remedy. of New York city. In alcoholic phthisis this is a most its effects are very marked Deptonized Cod Liner Oll and Milk, by Reed & Carnrick In the convalescence from pneumonia

should be among the remedies in the office of every physician Walting with the iron and vegetable tonics combined,

brain disorder, it is invaluable Windock's Liquid Bood has steadily grown into great As a nutrient tonic in old cases of stomach and

a local paper, is selling over five thousand bottles a day of their famous food. This is unmistakable evidence of its practical value. delated Food, by Wells, Richardson & Co., according to

in all eases of brain and nerve debility In many cases it is very nearly a specific, and should be used Ellows' Hypophasphites is a most excellent nerve remedy

saves-ine-patient much suffering. great value in cases where alcohol is suddenly removed from from mehrrates. It relieves the shock and depression, and Coan Cordial, by Parke Davis & Co., has been found of