ALCOHOL AND DICESTION

Does alcohol aid digestion? Accord-ing to the popular idea, it does, but we shall see how far this idea ac-cords with scientific facts.

We man be extended to the second with scientific facts. The principal, though not the only organ of digestion, is the stomach, and it is in connection with this or-gan that the influence of alcohol up-on thadigestive process has been most thoroughly studied. The stomach is a membranous bag at the left side of the body, behind and beneath the lower ribs. It has two openings, one for the entrance of food, the other for its exit, when digested. The stomach wall is closely studied with glands, whose function is to secrete and pour into the stomach gastric juice.

and pour into the stomach gastric juice. The active constituent of gastric juice is pepsin. After food enters the stomach, it is kept constantly in motion, so that it may be freely mingled with the gastric juice. The action of the gastric juice so changes the food that portions of it are ready to be absorbed into the blood. The digested portion is partly ab-sorbed by the stomach wall, and from thence carried throughout the body, but by far the greater part passes through the lower opening of the stomach into the intestines, where digestion is completed, and where absorption proceeds at a more rapid rate. It is in the intestines that starch and fat are digested, but the albuminoid portions of food, such as albumen and gluten, are di-gested in the stomach. In studying the effect of alcohol on digestion, we must consider both its

In studying the effect of alcohol on digestion, we must consider both its effect on the means employed for di-gestion and its effect upon the food itself. If alcohol increases the quan-tity, and improves the quality of the gastric juice without any injury to the stomach and in condition so changes the food that it is more readily digested by the gastric juice, then our way is clear to accept al-cohol as a valuable digestant. If, on the other hand, alcohol diseases the digestive organs, deteriorates the quality of the digestive fluid, and-renders the food less susceptible to its influence, we are forced to the conclusion that alcohol interferes with digestion. conclusion that alcohol interferes with digestion. Our information regarding diges-

tion is derived from four sources. 1. The testimony of individuals in re-ference to their own digestion. 11. ference to their own digestion. II. Post-mortem appearance of the stomach and contents. III. Experi-ments made with digestants outside the living body. IV. Observations made on the digestive process dur-ing life. 1. The testimony of individuals re-garding their own digestion, may at first sight appear to furnish most valuable evidence relating to the ac-tion of alcohol on digestion. Indeed, this is the only source from which

this is the only source from which the opinion that alcohol aids digestion is derived. But when we consi-der how untrustworthy is mere feelder how untrustworthy is mere feel-ing, we cannot regard it as of much scientific inportance. A person may feel no discomfort though his life is in imminent danger. One may suffer excruciating pain, which may be readily relieved by morphine without affecting the condition which pro-duted the pain. So when a person has painful digestion, alcoholic sti-mulants may relieve the distress by its narcotic properties, but that is no evidence that digestion has been added. Though alcohol temporarily relieves the distress incident to indi-gestion, individual testimony also points to cases of acute dyspepsia, resulting from its use. There was a time when physicians, trusting to the feeling of relief experienced by taking liquors as a remedy for indi-gestion, prescribed it for this pur-pose, but at the present day, when medical preparations containing al-cohol are introduced to the medical profession as aids to digestion, the summatucturers urge, as a recommend-ntion, the simallness of the percent-age of alcohol which they contain. They claim that these preparations contain the simallness to the percent-action the simallness to the percent-age of alcohol consistent with their proper manufacture and preserva-tion. ing, we cannot regard it as of much

tted. hird bottle, End of the secon r — No change. Fourth hour -udy with for on beef, Sixth hou set partly loosened. Eighth hour Aurther change. Tenth hour —N stion on cooling. Pepsin precip

A for the change of the hour - As digestion on cooling. Pepsin precipitated. The three experiments the failure of digestion was just in proportion to to the quantity of alcohol contained in the solution. Where no alcohol was possible even outside the living body. When alcohol is added to gastife that such takes place in the solution was precipitated and thus rendered inert. We may assume that such takes place in the stomach wall prevents it from occurring to any great extent. Turther, when albuminoid foods wall prevents it from occurring to any great extent. Turther, when albuminoid foods are indexed in alcohol is subsorbed by the stomach wall prevents it from occurring to any great extent. Turther, when albuminoid foods are indexed in alcoholic solutions, the albumen is observed to be congulated, and thus rendered less capable of digestion. So fully is this property of alcohol recognized, that when a brain is removed from a cadaver it is submerged in alcoholic, or by means of the stomach may be disclosed at any period of digestion and thus the stages of digestion is produced by intoxicating liquor is sufficient to cause vomiting without any other artificial means. The result shows that digestion is less advanced in the presence of alcohol.

MEDICAL SCIENCE

AND TUBERCULOSIS. Prof. Koch's sweeping denial of the theories upon which are based the English methods of treatment and legislation affecting tuberculous diseases at the recent Congress on tuberculosis in London, Eng., has aroused a great deal of discussion in

aroused a great deal of discussion in medical circles. A correspondent of an American daily newspaper says : If the Koch theory, that tubercu-losis is not communicated to man by animals, is accepted, the very stringent regulations which Parlia-ment has placed upon the sale of meat and dairy produce have no meaning, and the constant anxiety of English mothers regarding the milk supply is quite needless. Fear-ing lest the dairymen and butchers should forthwith agitate for a re-laxation of the present restrictions, English medical men are rushing into print with reminders that Pro-fessor Koch's investigations are still in the experimental stage; that 60,-000 persons in Great Britain now die of tuberculosis each year; that probably 30 per cent of all breed-ing and milking cattle in the coun-ty are in some degree affected with tuberculosis and that a graye na-

probably so per cert. of all preced-ing and milking catle in the coun-try are in some degree affected with tuberculosis, and that a grave na-tional danger may arise from any modification of the existing precau-tions except after the fullest invest-igation by English authorities. For the moment, the Government will do nothing—that is the English officia's' invariable first move. In the British Parliament the Pre-sident of the Local Government Board was urged to institute a thorough official investigation of Prefessor Koch's main contention, which is summarized thus : "If box-ine bacilli are capable of causing disease in man, there are abundant opportunities for the transference of bacilli from one species to another,

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takes care of the eyelets is apt to take care he shoes.

conscientious shoemakers that are allowed to of "The Mansfield" shoes. For no detail that r of "The Mansfields" is too small to receive only such careful, he making of a pair the making of a pair rerul attention. Summery styles - summery weights-summery leathers-\$3 per pair.

MANSFIELD, - - - The Shoeist, 124 ST. LAWRENCE STREET, MONTREAL. 47 pieces Beautiful Granite Cloth, shaded samelet, Selkirk checks, Grotna Green plaids, all selected summer shades, manufacture's price 60c to 75c. Special 38c per yard. Monday morning there will be a never-ending throng of ladies mak-ing their way to the Wash Fabric S ection of this store. Preparations have been made on a gigantic scale for this 'sale. Counter and tables are piled high with dainty summer goods that will find many friends at the tempting p rices they are marked. Here's some hints of the bargains.

and cases of primary intestinal tu-berculosis from the consumption of tuberculous milk ought to be of common occurrence, but the post-mortem examination of human be-ings proves that cases of primary intestinal tuberculosis are extremely rare in man. It, therefore, must be co-luded that human subjects are immune against infection with bor-ine bacilli, or so slightly susceptible that it is not necessary to take any steps to counteract the risk of in-tection in this way." But the Government refused to make inquiry on the ground that Professor Koch's view did not meet the assent of the general body of scientific men, and 't certainly is the fact that high English medical untorities have since adduced many cases which work against Professor of dental inoculation among dairy-men working with an open sore or sister vidence of Dr. Ravenol of within his knowledge of accidental inoculation from animals, two of the primes vidence of Dr. Ravenol's con-sistant. Indeed, the Congress gener-ally concurred in Dr. Ravenol's con-clusion that the tubercle bacillus in the early years of life. With the view over human beings, especially in the early years of life. With the view of testing Professor Koch's to and the an extensive series of experiments on his own home farm aben'am, and many other private investigations are now certain to be & CO. **Ready-to-Wear**

GOODS. A line of Print Wrappers, regular \$1.00 goods, to clear at 45c.

A lot of Silk Morcen Underskirts, in Roman Stripes, to clear at half-price Balance of Children's Ameri-can Print Dresses, sizes 4 to 14 years, to clear at 25 p.c. discount.

A lot of Ladies' Waterproofs, Ul-ster Shaped, Box Back, in Green on-ly, worth \$9.00, for \$3.95.

Children's Reefers in Navy Blue Serge, sizes 3, 4 and 6, to clear at \$1.50—less than half-price.

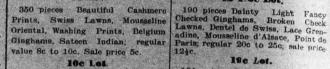
A few Short Cloth Capes, were \$10.00 and \$12.00, sale price \$4.75 Men's Navy Serge Coats, double breasted, 36 to 42, worth \$5,00. Sale price, \$2.49.

Men's Fancy Summer Vests, tail-ored in London, single or double breasted, sizes 36 to 42, regular prices, \$2.50, \$3.00, \$3.25. Sale price, \$1.49.

Men's Wash Ties, to tie in bows or knots, plain or striped, to clear at 1c each

JOHN MURPHY & CO.

that "Tribues" writing on the above breed to up to the subject, says : A friend of mine who lives in Tokic recently had his bicycle stolen. He put the matter in the hands of the police. Two weeks went by with no, word from them, so he passed a deprecatory comment on yellow rokes the police. Two weeks went by the police chart is grant promptly refused, while he standard of the old spirit to make the lower classes.
Will do hows, his regret that the thief had subjected the wheel to much fill usage. Then my friend offered to serve the function. The not accept it in connection with the return of the bicycle, the momey to the police chart method of corruptios.
There is another story equally the forest mater. You owe five see (two his prement. You owe five see (two his trunks, and that is all."
There is another story equally the stratike of Japanese officialom. A the there story agage would make trouble. The stratike of Japanese officialom. A the there have been trials and convictions of municipal emplays in the biggreat the story by the forest method of corruption.
There is another story equally the the standard of living has more there there bave increased the the standard of living has more there there have the reference the there the story by the for him with the customs, haid a treym note conspicously on the hard had them; now he wants many has an an and had them; now he wants many has an and mater the story have the mater in the stranks of the standard of living has more hard had then; now he wants many had an and had them; now he wants many had an anoth have them call. The success of the standard of living has more have them is the standard of living has more have them is many had another, have them call. The success of the standard of living has more have them is many had another, have them call the tranks of the standard of living has more have them call the standard of living has more have them is many had another; have them call



5c Lot.

No.1 Lot

No S Lot.

10c Lot. 210 pieces Pretty Fancy Pique, Sa-teens, Ginghams, Broken Checks, Roman Stripes, Scotch Plaids, Ori-ental Muslins; regular value 15c to 20c; sale price 10c. List pieces Beautiful Dentel d'Al-sace, Dimity American, Dimity Swiss. Mousseline d'Oriental, Mous-regular value 30c to 40c; sale price 19c.

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Never before have such handsome goods been offered at such insignifi-

Ladies' New Shirt Waists in dain-ty patterns of Muslin and Percale, newest designs, splendid value at \$1.25. To-morrow 68c.

Ladies' Fine Percale and Organdie Muslin Shirt Waists. in pretty shades of mauve, pink, sky, etc. Regular value, \$1.50. To-morrow 87c.

cant prices

MEN'S SHIRT WAISTS.

Just put into stock another shipment of Men's Shirb Walsts, they come in stylish stripes of Blue, Heliotrope and Red, made of Imported Percale, well finished, perfect fitting, in all sizes. Regular value \$1.75. Sale Price, \$1.40.

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J. July and August

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al's Greatest Store, St. James Street,

People are coming from all parts to secure some of the stylish Summer Dress Goods that are being sacrificed at The Big Store-Don't fail to supply yourself with summer goods at these prices.

33 pieces Light Summer Dress Goods, 40 inches wide, English fa-hrites, all selected shades and designs regular value 55c to 70c. Special sale 19c per yard.

PRETTY WASH FABRICS REDUCED.

BATURDAY, August 8, 1801.

No. 8 Lot.

No. 4 Lot.

73 pieces Fancy Check Dress Ma-terial 40 inches wide,' French Ia-brics, in all the most recherche shades and designs, worth from 67c to 95c, Special sale 42c per yard.

19 1-2c Lot.

19c Lot.

ER DRESS GOODS

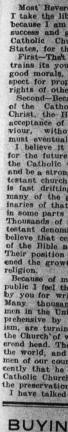
The chief charm of the Outing Skirts is the charm of novelty along with lowness of price. Ladies' White English Duck Skirts, trimmed with blue band of same, perfect fitting and full sweep. Regu-lar \$1.50. Sale price 89c. Ladies' White Finne Skirts Infect

Ladies' White Figus Skirts, latest style tailor made, double stitched seams, deep plait in back, finished with hem, worth \$2.25. Sale price \$1.65.



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proper manufacture and preservation 11. Post-mortem examinations

11. Post-mortem examinations reveal that the stomach, after alcohol has been imbibed, is highly congested, and that the secretion of the gastrie glands is, in many instances, increased, but proof is lacking that there is an increased secretion of pepsin. A slimy coating which forms patt of the increased secretion is found, and this interferes with digestion. Instead of the stomach contents being found in a more advanced state of digestion, the food has been found indigested even four or five times as long, after alcohol has been taken. The experiance of habitual drinkers whilst alive, and the post-morter habe alike show, that the long-continued use of alcohol affects the stomach to such a degree that a very obstinute form of pastric catarrh is induced in which digestion is performed with difficulty. re

digestion is performed with difficu-ty. II. Dr. Henry Mourog conducted a very interesting series of experi-ments. illustrating the effect of alco-hol on digestion. Finely minced meat mixed with gastris pice from the stomach of a call was placed in hot. the Water was added to the first boffle, alcohol to the second and pals ale to the third. The contents were maintained at a temperature of 100 degrees F. that being the inter-nal temperature of the body, and were kept constantly in mction, in imitation of the scimath. The results were as follows :-First bottle. Meat, gastric pice and water. At the end of the second hour the beef had become opaque Fourth hour - Bigested and separat-ied. Eighth hour - Bred much lessen-ed. Eighth hour - Dissolved like scond

Niny, Easy heringee that's ideal for summer wear. These new century Negligees of ours offer color schemes that capture every taste—You'll like 'em sure—and not a shirt is poor century

that capture every taste-You'll like 'em sure-and not a shirt is poor property. MECLIGEE SHIRT.-A line which has made its mark, coffs detached, were \$1.25. We are now offering them in all sizes for \$1 each. BOYS' BELTS.-All to be cleared at 5c, 20c and 25c each. Special sale in Boys' Ceylon Flan-nel and English Flannelette Shirts.-Just the thing for seaside and country wear; sizes from 12 to 14, worth 50c, to be sold at 89c each. A beautiful line of Colored Shirts, all guaranteed fast colors, in all sizes, regular value \$1.25, to be cleared at 75c each. Why not wear our Blue and White Shirt Waists? Just a few of them left, only \$1.50 each. Boys' Shirts in Striped Cashmere Flannel, the best make, sizes 12 to 14, to be cleared at 75c each. 90 cents a dozen for 4-ply Collars, English make, we are clearing out a special lot of them in all sizes and leading styles. WESA of the borts, at 25c, reduc-ed to 15c each, and 50c, reduced to 25c each. REDUCTION IN GLOVES

REDUCTION IN GLOVES.

REDUCTION IN GLOVES. Still a few of the reduced Gloves left. A special line in Bicycle Gloves, Woven Linen Mesh Dacks. with Chamois Palms, in white and every shade of tan, reduced from 65c to 38c pair. Our special Tan Lisle Thread Glove, nicely finished off and perfect fitting, with sik points, worth 80c, for 10c a pair.



for him with the cnstoms, haid a five-yen note conspicuously on the top tray of one of his trunks. The inspector paid no attention to it, but went on checking the pieces as he examined them. "That's for you," the tourist explained. Very gravely the little man put a chalk mark on it, and passed it back to its owner, who now says that no one need tell him that the Japanese haven't a sense of humor.

PUBLIC LIFE IN JAPAN.

A correspondent to the New York Tribune" writing on the above

subject, savs :--

one need tell him that the Japanese haven't a sense of humor. The Japanese police thrive by nei-ther of the vices which are objects of extortion at home. Gambling does not exist. But want of opportunity does not account for the honesty of Govern-ment employees. No more does high may. Salaries and wages, instead of being as much if not more than per-sons with similar qualifications re-ceive in civil life, are much less. We have to look further-to social customs, character, and sentiment. Money is not yet considered the su-portor of honor in a land where all honors come from the heaven-de-scended Mikado himself. The feudal spirit which made a 'gentleman,'' however poor he was, superior to any one in trade, however wealthy, still survives in a large measure. There was never a conception so ut-terly without foundation in truth as that of Pooh Bah in the 'Mikado.'' Gibert must have had a Chinese mandaria in view. The one complaint of the foreign trader in the surjy days was thak he could not hribe or buildoze a Japanese official into hon official to accopt money was to entrop his own central which was

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sal, Phile ophical, Classical, Scientific and Commercial

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a application.

connection with any occupation ex-fortune. The question of "Where did you get it?" was asked here just as it is at home. A member of the To-to the the second second second second by the newspapers which were or-posed to him with having made hard where no act of the ruling sov-erign is open to discussion, where a provide the second second second second to the newspapers which as on the hard where no act of the ruling sov-erign is open to discussion, where a provide second second second second second the platform of a socialistic party the platform of a socialistic party which is nowhere surpassed of the secred one of the Emperor in insuege which is nowhere surpassed in saving candor. Hosh Toru was either all that was bad or else he was all that was good. No Japame second second his onemies bitter as a successful "hoss." When Mar-tivis Ito began the organization of his method by an and he coments the second wis Ito began the companization of his method by the second second second the second party the Second the second party the Second the second second second second second the second party the second party the second the second party the second par

Municipal rather than national flics are the subject of scan Japan, with all her adaptain

plums. Whether or not the corrup-tion which now appears in higi places will estend downward to the rank and file is the important ques-tion. Those who are competent to judge say that the integrity of the army and mayy and the national civil service, national legislature, and judiciary is exemplary.

IRISH UNIVERSITY QUESTION

In a rather strange new book, Henry J. Glaisher, a non-Catholic, tells English statesman, that they would do well to grant Catholic uni-versity education to Ireland. The denial of the beon, "is another of the innumerable moral wrongs do filted on Ireland by party Govern-ment." Such a course is not only mank political injustice, but is can be productive of no desirable results. He informs his stubborn audience that if English Liberalism cheristes a vacuo hope of "converting" frish Roman Catholics to the conflomer-abe of negations which ft calls fts "Greed," the sconer it ahandons that defusion the parts. er it abandons rtter. The Ro-is as perman-politics as the in Irish geogra-nore possible to factor from the statesmanship the majeste

does. Being afte Conscience, he la his confessor, wi give the money i An instruction the priest that i strict restitution can only urge the his ill-gotten goo thereof in alms. Compensation can sinful act as sim able to the othe indeed, in makin in carrying it ou matter between 1 Two conditions validity of the of and solling. The must be a mark The second is. 11 shall own and he that which he off in all cases, whele and not the give a price, that is e continter smart to contract will giv der the natural paid for wrongdol In such cases a judge or elector, a thiet for not and i cases (the inself core mot and in cases)

BANGU