## Bolunteer. American The The Amercian Volunteer. PUBLISHED EVERY THURSDAY MORNING per line for the first insertion, and nov cents per line for each subsequent insertion. Quar-terly, half-yearly, and yearly advertisements in eried at a liberal reduction on the above rates. Advertisements should be accompanied by the CASH. When sent without any longth of time ·BY BRATTON & KENNEDY. OFFICE-SOUTH MARKET SQUARE. 'LERMS:-- Two Dollars per year if paid strict.y in advance; Two Dollars and Fifty Cents if paid within three months; after which Three Dollars specified for publication, they will be cont antilordered out and enarged accordingly within three months; after which Three Dollars will be charged. These terms will be rigidly ad hered to in every instance. No subscription dis. CABDS, HANDBILLS, OIRCULARS, and every oth-CARLISLE, PA., THURSDAY, NOVEMBER 30, 1871. VOL. 58.---NO. 25. continued until all arrearages are paid, unless at the option of the Editors. BY BRATTON & KENNEDY. and the swelling are no evidence of irri- | weighed glass beaker. He then weigh- | ing the quantity day by day, he may | into the circulation, substances which | Not necessarily, unless the system should cold dilute ammonia ; after liaving ob-KIEHL'S TRIAL CONTINUED. Protessional Caros. become, as is so often the case, toleran tained a perfectly transparent and colorare deposited in the glands, such as the tant poison, because they occur very fre- ed this dried product, and estimated finally come to the starting point, where leas solution of .this precipitate, and do of the arsenic, as it is continued to be the whole of it as sulphuret of arsenic. be took the first small dose, and do that -[For preceding testimony see supplement.] liver, kidnoys, and other structures of INITED STATES CLAIM quently, and indeed quite commonly you believe organic matter present or He should have secured the purity of with impunity. Just as with the con- the body. The rapidity with which used. After obtaining the black or steel TESTIMONY OF DR. ROBERT E. RODGERS. not ?" Ans.—I am not aware that by that I think it is not possible to determine that sulphuret of arsenic, before weigh- armed inebriate, who, increasing his arsenic is absorbed in solution, widely in cases of death from ordinary diseases. gray coating, it should have been sub-AND what is called the power of enervation, process it is possible to obtain a transpaing. The process as far as it was carried dram, reaches the extreme limit at which REAL ESTATE AGENCY. limed from the copper, or driven off from varies according to circumstances. It is rent and colorless solution; but have prenot then producing especially the irritathe condition of the internal or mucous the copper, after placing it in the proper WM. B. BUTLER, he can bear it. If by accident he breaks impossible to prescribe the time in tion of the mucous membrane. When coat of the stomach, from an by him, would give a result when ipliated from as clear and colorless a sotubes, so as to receive the eight-sided ATTORNEY AT LAW, Illee in Franklin House, South Hanover Street arikie, Cumbeiland county, Penna, Applications by mult, will receive immediato icention. his leg, and the surgeon forbid him takwhich it would be absorbed with defi-. the symptoms are of a narcotic kind, examination of the exterior coat, weighed, that contained organic matter lution as could thus be obtained by the crystals. These crystals should have ing any more liquor the chance as he niteness, though on an empty stomach process detailed, sulpheret of arsenic, besides the sulphuret of arsenic; therethey are when the system is over-The stomach consists of three difwill go into delirum tremens or mania been subjected to the Marsh test, in its attention. Particular attention given to the selling or rent-ing of Real Estate, in town or country. In all let-ers of inquiry, please enclose postage stamp. July 11, 1870-11 the solution may be taken up immedir what resembled it; but under those whelmed as by a powerful narcotic, ferent layers-an outer tough layer, fore it should have either been treated prominent modifications; the reduction pota. The sudden leaving off of that such as opium. It is therefore evident ately, while on a full stomach it would test, and the liquid test. By the liquid ircumstances I have not estimated it with nitric acid first and soda or carbithen a muscular layer, and in the inrequired stimulus brought on by that be retarded. If it have fair and unobfor the weight of arsenic present, since from this that the symptoms must be side the mucous membrane-that which | nate of soda; or by means of the niate test. I mean the treatment of a solution that condition, the system suddenly gives the roughened appearance to of soda directly with elicination-burn structed opportunity, it may be abeven then it is regarded as liable to R. E. BELTZHOOVER, 'extremely variable; at times' we have, of the crystals in nitric acid by ammonia gives away. Q .- A. B. has been taking the danger of containing organic matter; sorbed almost immediately after it tripe when it is boiled. Those outer | ing them together; this process destroys as has been read from the book, weakcal nitrate of silver, ammoniacal sulphate arsenic a certain time, and the system comes\_in\_contact\_with\_the\_mucous\_of copper; and a stream of sulphureted hy-ATTORNEY-AT-LAW, and the books distinctly announce that ness, faintness, nausea and sickness; layers, the tough and the muscular, are all organic matter, and leaves the ecoming fortified against its power, and membrane of the stomach. Authors drogen gas respectively. I saw the tubes nothing short of burning with nitrate out not always those or either of themby violent exercise or other causes to not transparent, and the farmer might arsenic in a condition ready to be prediffer very much as to the time. Prof. Dr. Rand had. I think there is arsenic of soda will give pure results suitable cipitated as pure sulphuret of arsenic, which the party is not accustomed, any at times the symptoms of arsenical as well expect to tell his neighbor what office on South Hanover Street, oppos Alfred Stille is connected with the inthere, but I desire it understood that that for determining the absolute weight of Pentz's dry goods store. Dec. 1, 1865. poisoning are vomiting and purging. and this to be weighed and estimated. portion of the system should give way kind of grain his sack contained, by stitution with which I am connected. opinion would not allow me to rest extreme retching and straining; some-Yellow precipitate would have been might the effects of that poison be sud the arsenic. If Dr. Rand has dislooking at its outside. From the re-UMRICH & PARKER, J. H. NONEMAKER, sworn .- I live at that point in the investigation, when obtained by following the plan pursued covered that this repetition of the protimes with and sometimes without denly developed? Ans.-It is well known port of my friend Dr. Rand, when he ATTORNEYS AT LAW. n Mechanicsburg. Have been a drug- the grave issue of life or death is becesses as detailed by him will give that arsenic, no matter how administerstreaks of blood or bloody matter in the by Dr. Rand if no arsenic were present. informed us the stomach was so offengist there for three years and a half. I fore me. I believe the cublimate pro-This precipitate would have been suffi- ed, whether by the stomach or by abvomited and purged materials, but not sive that he could not, with comfort. lisle, Pa. Dec. 28981 --ciently of the color of sulphate of sorption through the skin, or by applica don't remember selling poison to John | cured from the box to be arsenic-such always these, nor any one of these; brear the smell, I should say that it Kiehl. I might or I might not. I keep is my opinion, but that opinion would GEO. S. EMIG. arsonic as to render it unsafe for the tion to a wound, has a very special ten sometimes an extreme hurning of the was in such a state of decomposition as a register. His name does not appear | not permit me to rest at that point in chemist to pronounce it arsenic. It dency to act upon the bowels and stomstomach and gullet up into the mouth, ATTORNEY-AT-LAW, would be inconsistent with the antisepthe investigation when the question ach, and if it act upon the bowels and constrictions of the throat; accommight have been organic matter. Folon it. tic or preservative effect of arsenic. The Office with S. Hopburn, Jr. East Main Street, of life and death is presented. I stomach, it may derange them, howso-DR. ALFRED DAY, sworn -- I live in panied by extreme unsatisfying and lowing Dr. Rand's process, a larger or Mechanicsburg. Am druggist and would in addition to that have pergangrene is used with conword ever introduced. If it do not derange CARLISLE, PA. inquenchable thirst. At times however smaller amount of organic matter must siderable confusion. Many persons formed the other tests I have menthem, it leaves them more particularly physician. Have been in business have been present with the arsenic. If Feb. 2, 71-1y this burning, this constriction of the speak of a thing being gangrene, refertioned. The other tests could not be susceptible to causes of inflammatory there eight years. Never sold any W. KENNEDY, ATTORNEY AT LAW throat, and this extreme thirst are arsenic had been present, half, threering to it as a sort of greenish, rotten applied to this sublimate, the amount is condition. If now indigestible food shoul poison to John Kiehl that I can reabsent; extreme pain in stomach and state. The true meaning of the term, as fourths, any amount proportionally of so extremely small that while I should be taken into the stomach, or anything member of. I never saw him before ;: bowels is experienced, sometimes it is organic matter might have been there used in surgery, is the sloughing off D R. GEORGE S. SEARIGHT, DEN TIST. From the Hallimore College of Denia Surgery. Office at the residence of his mother ask Loudier Street, three doors below Bedford be most anxious to apply all those tests, else would act upon the system, tending except here in this court room. absent; sometimes violent cramps in provided the quantity of arsenic was which is diseased from that which is I should fear I should fuil to obtain to or profuging irritation of those organs P. S. BROUGH, sworn.-Live in Mecalves of the legs; this is not always healthy, in other words, mortification. very minute. It a thousandth part of any satisfactory results; therefore, nnthe arsenic in the system, having the hanicsburg. Am a druggist. Have present; extreme sensibility, and at a grain of arsenic, there might be a When it has separated entirely from the less I could obtain additional confirma same tendency, would, in my opinion had drug store there two years. Never times a want of sensibility and of living part and becomes itself dead, it grain of organic matter that would look sold John Kiehl, any poison. I never | tion of that opinion which I have mencontribute to increase that inflammation then undergoes ordinary nutrefaction or like sulphuret of arsenic, or there ensation exists; sometimes the patient and thus set up the symptoms of gastro tioned, I should remain in that opinion. Wats and Cavs. saw him before. feels rigors or chills of cold ; alterating rotting. Q. "In making a post mortem might be no arsenic at all, with the interitis. Q .- How far would a cliemis With the dark material on the copper, J. W. BYERS, sworn .- Live in Me-BARGAINS IN with heat. This is not invariable and examination, for medico-legal purposes, same result. Assuming arsenic was rely upon Reinch's test and eight sided and the extremely minute quantity of chanicsburg. Am druggist. Have constant. The patient is sometimes where peculiar symptoms have been obcrystals when the quantity is almost inpresent there was nothing in Dr. arsenic visible in few crystals under a been for two years. Never, sold defen-HATSAND CAPS! extremely relaxed, skin cold and clamserved and treated by the attending pbyfinitesimal? Ans .- The chemist may be Rand's analysis to determine the absopowerful microscope, I simply entersician, what organs should be specially dant any poison to my knowledge. ing ; restlessness is present ; the eyes ex-At ICELLER'S, 17 North Hanover Street, We hut or received the intest styles of HATS and CAPS, Slitk Hats, New York and Philadel-phita styles, Cassimore Hats of all shapes and prices, Soft Hats of every kind, from 75 cents up. Cloth Hats, in Blue, Velvet, Lasting, Mixed Cass and Black. Also a fine lot of Boys' and Children's Hats, Cloth and Felt, and at all prilute quantity of arsenic present, as within himself sufficiently satisfied to tain a helief that it is arsenic with the Never seen him before to day. examined?" A. It is considered proper press suffering; the brain is affected rely upon that test, when with him it is there were not proper precautions taken. qualification expressed, and as the o examine those organs which are sus-DR. S. S. HOOVER, sworn. -Live in a mere matter of opinion, or perhaps even n its powers, delirium and stupor, to remove the organic matter. A very quantity is so extremely minute pected to be the seat of the disease. I Newville. Am a druggist and physiproperty involved, I would feel sufficient (called coma) and death may close the minute quantity of arsenic in Reinch's that while I would design to apply these feel a great deal on this occasion. I am cian. Had drug store about two years. symptoms. But sometimes several of test will make a considerable deposit ly satisfied; but in the grave issue of life tests I have named as important, I here greatly against my inclination, and Never sold John Kiehl any poison. or death, I should not be satisfied with these may be omitted and replaced by on copper, and will cover a considerable should fear I would fail in obtaining Ces, MEN, BOY'S, AND CHILDREN'S, HATS, in styles too numerous to mention, all of which will be sold at the lowest Cash prices. Call and examino our stock; you cannot fail to be pleased in price and quality. HATS of any kind made and repaired to yder, on short notice. also my interests, and have only come relying exclusively on that test, and those eight sided crystals; nor should I Never saw him before. others, showing that many organs and surface of copper. relative to the quansatisfactory results; and if I did fail, in obedience to the authority of the court, ALEXANDER FORBES, sworn,-Inow structures of the body are susceptible of tity of arsenic. Just as a small amount would be of the same opinion as before. I after learning from my friend, Dr. Reese, live in Chambersburg. Had been a feel satisfied until I had exhausted and the impression of this irritant poison. of white wash will cover a very concannot say whether Prof. Wormley says who had obtained the information from traveled over and over again the promidruggist in Newville until the 20th of The symptoms I have detailed are not siderable surface of wall when spread an eminent lawyer, that I was bound to Reinsch's test is preferable to Marsh's nent tests which the high authorities last April. Never sold John Kiehl any exclusively due to arsenic. If they out. A very minute quantity of arsenic because it detects smaller quantity: No. 15 Stort notice, JOHN A. KELLER, Agent, No. 15 North Hanover Street, Sept 25, '71-tf. obev both from law and duty. It is esgive. A chemist generally has his book poison that I remember of. were, post mortem examinations and deposited in copper will, when treated pecially painful, because I am called upon but whatever be the connection. I feel by him, and works according to very in a tube, give a considerable number of eight-sided crystals. The estimate chemical analyses would be useless, DR. R. E. RODGERS, Continued.-The o comment upon chemical analyisis perquite assured that Prof. Wormly in rigid rules. There are other substances since all that would be needed, would rapidity with which arsenic would be ormed by a brother chemistand brother recommending Reinsch's test has never TATS AND CAPSI that will give eight sided crystals, much absorbed would depend on condition of be merely to remember that these physician, a personal friend, and one who or quantity which would produce a resembling those of arsenic, but not unintended to confine the investigation stomach, whether full or empty, dissymptoms always belong to arsenic, number of crystals indicated by Taylor DO YOU WANT A NICE HAT OR CAP ? occupies as high a position as myself in these circumstances-that might to that alone. He is too thorough a der IF SO. DON'T FAIL TO CALL ON J. G. CALLIO, and when you find them you would be eased or otherwise, and upon what sister medical school. I therefore deseems to be one-three thousandth to chemist. Q.-Do either Wormly or Taylor lay down a different rule for possibly find themselves in a tube sire to say, that whatever comments I one-two thousandth of a grain. I think might have been taken into the stomsure that arsenic, and nothing, else which would have eight sided ar-NO. 29. WEST MAIN STRLET, Where can be seen the finest assortment make have nothing whatever to do with | Prof. Wormly makes it more minute ach previously. In an ordinary healthy would be the cause of the symptoms.ascertaining the quantity of poison senical crystals-but they are substanperson, if the stomach were healthy, Q.—"Are not those symptoms you have Dr. Rand's ability, skill and professional still. That quantity would give some ces which do not legitimately come HATS AND CAPS than that pursued by Dr. Rand ? Ans .-ever brought to Carlisle. He takes great plea mere in inviting his old friends and customers and all new ones, to his splendid \*rock just re-slived from New York and Philedelphia, con-usting in part of fine in case of solution, the atsorption described sufficiently like those which standing. A medico-legal chemical ancrystals. Dr. Rand should have tested from the Reinsch test. If you gave me I referred to the process as laid down would commence immediately. It is generally attend iuflammation of stomalysis should be exhaustive, so far as to his sulphureted hydrogen, else it might a tube containing eight-sided arsenical by Taylor and Wormly? Dr. Wormly carried by the circulation to the differach and bowels, as to prevent us from run the important changes through crystals, and I were criminal enough, carry over arsenic. The metallic iron does not, he requires additional prewhich that metal can be passed, in the ent parts of the body. It reaches some distinguishing between the natural disand the brimstone which are used in I could remove them, and substitute SILK AND CASSIMERE HATS. cautions beyond those taken by Dr. pesides an equiless variety of Hats and Caps , the intest style, all of which he will sell at th *Jouret Cars Prices*. Also, his own manufacture thats always on hand, and demonstration of its presence, as in the portions of the body almost immediate ease and the effects of irritant poison?" making sulphuret of iron, from which other eight-sided crystals, that could Rand; Dr. Doremus is a superior nerformance of those processes which ly. It reaches first the mucous mem A .- They are. Q .- "Are the sympthe subhureted hydrogen 'is to be prenot be distinguished from the archemist. I do not know that he ted hydrogen coming off will have some will prove absolutely and without a doubt toms of arsenic considered as an irritant brane. The absorbents take it up from pared, sometimes contain arsenic; senical crystals, except by further inrecommends the method pursued by HATS MANUFACTURED TO ORDER. that the substance is arsenic and nothing of the arsenic with it. The longer the the mucous membrane into the circupoison, fixed and invariable?" A.therefore when sulphuteted hydrogen HARD MATCHINGTONE TO COLOME If the hest arrangement for coloring Hats and all kinasof Woolen Goods, Overconts, &o., he shortest notice (as he colors every week) and a the most reasonable terms. Also, a finelot of uolee brands of vestigation. Q Could a drop of Fow-Dr. Rand. The organs in which the else. I think the examination made by lation. This is an immediate process. They are not. The symptoms of none ler's solution, accidentally getting on a comes from this sulphuret of iron which greatest quantity of arsenic is found, Dr. Rand was not thus exhaustive. We That which has been taken up is then of the irritant poisons are fixed and inhas arsenic in it, by taking the hydrobox, such as Dr. Rand analyzed, and after the stomach and bowels are bladder grave a case, involving life, beyond the gen part from the water, may itself consider it necessary in proving, in so out of the stom ach. I have no data for variable. The symptoms of no single drying, be afterwards detected by the and spleen ; Sometimes the least quanforming an opinion as to the time it poison are fixed and invariable. It is contain arsenic. Q .- Dr. Rand stated process followed by Dr. Rand? A. It tity is found in the heart. It is sometimes TOBACCO AND CIGARS ossibility of error or doubt, that ariways on hand. He desires to call the attention to persons who have would take to absorb ten drops of among the established truths in medithat his guess as to the amount of could with the greatest facility, for some enic, and only arsenic, is the substance found in the kidneys, the brain and Fowler's solution from stomach. Q. If cal science that age, sex, constitutional arsenic in the liver was arrived at by experiments which my friend Dr. Reese blood. If a piece of the intestine conound. Dr. Rand failed in confining COUNTRYFURS peculiarities-the state of health at three doses of Fowler's solution, (six himself to the Reinsch process, and ob- | coating copper foil by placing it in the and I have made, the tenth part of one tosell, as he pays the highest cash prices for h tained arsenic, I would infer that it drops each), are ad ministered to-day to suspected fluid, is it possible in this anne. Give him a call, at the above number, his old atand, as be feels confident of giving entire sauls-faction time when taken, as well as the quantaining the octohedral or eight-sided crysdrop, amounting to the one-twelve contained arsenic throughout its length. a person, how soon would that liquid tity in which the substance may be tals. Notning short of obtaining the me- way ever to guess or estimate the thousandth part of one grain, can be deto be absorbed from the stomach

accurate results, I shall hail it as a most valuable contribution to science, as greatly saving the labor of the analytical chemist. Watt's dictionary has a great deal of valuable material in it, some things up to the times and others not. I do not remember whether he recommends that method of quantitive analysis. There are among chemists several methods for determining arsenic. Q.-Is chlorate of potash, with hydrochloric acid, a more powerful oxidizing agent in lestroying organic matter, than nitric icid. Ans.-Hydrochloric , acid and ootash mingled develops chlorine gas, and that tends to destruction of organic natter, partly by itself attacking the organic matter, and partly by liberaing oxygen from water, which attacks he organic matter. Nitric acid would et powerfully as an oxidizing agent. Each one accomplishes, as far as it goes, the same general result. Arsenic is quite frequently given as a medicine. There are quite a number of recorded cases of poisoning by Fowler's solution. I don't know of many cases of poisoning where it has been administered as a medicine. Acute gastro enteritis, under certain circumstances, is a common disease. Aitken is an authority on practice of medicine. The sulphurced hydrogen used by Dr. Rand might contain poison, unless precautions are taken to guard against it. Then the arsenureted hydrogen used for the sulphide of iron, may contain arsenic. I should be sorry to rely. upon the arsenic being precipitated upon the evolution of the gas. Some of the arsenic may be retained by the sulphur; but I should be very unwilling to depend upon it all being precipitated ; and there is always danger if arsenic be present that the sulphure-

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copper foil is left in the solution, up to certain point, the thicker the deposit will become, but we cannot determine how thick it is. Re-Examined in Chief .- Using the preliminary steps detailed, the only method of getting rid of organic matter is by calcining. I heard Mr. Horn's statement of analysis of a substance supposed to be bi chromate of potash; it t complete. Bi ch: tash alone would have been greatly more hurtful if taken into the stom ach, than the mixture of polash with the extract of logwood would be; indeed the extract of logwood would be about as good an antidote for bi chromate of potash as we can well find, and one would tend to neutralize the other. If I had a substance supposed to contain a very small quantity of arsenic, I should employ the Beinsch"fest first, to endeavor to obtain crystals which could be tested, and retain the residual liquid that I might subsequently use the Marsh test. As the ultimatum or great conclusive proof of the presence of arsenic, you must obtain the metal arsenic tself, and prove it to be such.

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Sept. 28, '71-tf.

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GOOD NEWS FOR THE PEOPLE. J. ELLIOTT. (Successor to J. W. Smiley,)

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of latest styles and best qualifies, together with a general assortment of NUTIONS and Georg Furnishing gools. Do not fail to give me a call. My motto is "Quick sales and small profits." Sect 91 1071-27 JOHN ELLIOPT. Sept. 21, 1871-8m,

the symptoms which may attend it .- | teristic tests for arsenic would satisfy me. The symptoms of gastro enteritis are not Marsh's apparatus, in its modified appliabsolutely fixed and invariable; but cations, the reduction test, and the liquid poisons. There, however, are many of sided crystals. I am satisfied that Dr. them entirely like the symptoms of the Rand was himself satisfied that what he irritant poisons. Among the symptoms | had done proved the presence of arsenic, of gastro interitis are those which attend | but it would not satisfy the demands of inflammation of the stomach and bowels, often extending from the lower extremity of the bowels up to the cavity of the mouth, with similar pains at times, similar burning of the gullet, and similar thirst. Tartar emetic, corrosive sublimate, salt petre, caustic ley, such as wood ashes, oxalic acid, white hellebore, and cantharides would produce the same effect as arsenic. I am not practicing now regularly as a physician. I have not been practicing regularly since I lost my arm. It would be impossible to say, from the post mortem examination, as detailed by the two examining physicians, who made their report, what was ' the cause of death. It is possible in some post mortem examinations to determine the stepu gone over and over again, so cause of death. If it were not for that, as to add confirmation to the previous very few, post mortem examinations would be performed, since it is a very distasteful procedure, and physicians would scarcely care to take the pains to do so. I do not recall any thing noculiar to irritant poisons in the post mortem, but to be entirely fair to Dr. Kieffer and his assistant, I would de sire to say that his report of the condition of the bowels, which he cut open, would indicate some abnormal condition, but from what cause one could not precisely tell. A medidco legal autopsy should be conducted exhaustively, in my opinion. I do not think the examination made in this case was exhaustive. If I understood the report correctly, the gullet was not opened and examined, the heart was not opened and examined, the kidneys were not opened and examined for the possible evidence of Bright's diseasedisease of the kidneys very frequently fatal. The stomach was not opened, and the condition of its interior examined by those gentleman. How far arsenic itself-that is the original Marsh the ovaries were examined, I will not test. These processes would exclude an pretend to say, since I understood Dr. Kieffer to state that they were in a healthy condition. They should have ing the quantity of arsenic, those generpeen opened. I would desire to make ally adopted by Chemists? Ans.-They a statement which I think is proper in are not. I understand Dr. Rand to state this place. The stomach was not opened. It is very often not opened in autopsies, because it is desired to prevent the contents of the stomach from being separated from it for the chemist's examination ; and therefore it would not militate against Dr. Kieffer professionally, for having omitted to open it, but only destroys the perfection of the post mortem examination. The colored spots lound in the body were the very

given, influence materially, if not to a

large degree, the effects which the sub-

familiar death spots preceding decomposition, or you may say of incipient decomposition. These spots are not solve the sulphuret of arsenic, and especially evidence of disease. The leave any other metals undissolved. the result of decomposition, not the ev-

4

amount of arsenic found? A .- It is not; tallic spot of arsenic, the metallic mirror of arsenic, and the subsequent treatment | but I must do justice to Dr. Rand-he | still smaller amount, which I believe stance may produce, and consequently of the spot and the mirror, by the charac. himself at tached no importance to it. It is not possible to tell the thickness of the deposit on copper, any more than to tell the thickness more so than the symptoms of irritant tests, after having obtained the eight- of white wash on a wall. The deposit found in the filter by Dr. Rand might have been fatly matter and albumen, and I shouldn't be willing to decide whether they were arsenic or analytical chemistry. An experienced organic matter, without some further farmer may look over his grain field, and test. When taken into the body, arsesay at once that it is an imperfect field : nic either passes from the stomach by he predicts it by his own familiar contact vomiting, from the bowels by purging, with it; but a stranger to farming would or is absorbed into the system, or may not so see it; that farmer would carry be by all these methods. Absorption him over the field and show him mingled by the stomach is when a substance inwith the wheat, cockle, rye and cheat, troduced in a stomach is either in a disand when he had shown him all that solved state already, or dissolved while was foreign to the wheat, that individual in the stomach, and then taken up by would then know it was not a good field the absorbents of the stomach, and of wheat. Reinch's test, Marsh's test, and its modifications: the reduction test. is absorption proper. It is carried to i. e. the reduction and production of a the various organs and structures of the mirror of arsenic in a tube; and the procuring of the sulphide of arsenic, and the body and may be lodged in them. Arliquid tests, including the eight-sided senic is by no means the only metal thus crystals-are all tests for arsenic. These absorbed-antimony, quicksilver, cop. per, lead, and silver itself. In fact it may be refined up, and the successive would be difficult to say what metal is not taken up. Q.—Is arsenic retained results. That was not legitimately in the system any length of time? A Marsh's test used by Doctor Rand, by -I should say it was-sometimes for passing gas supposed to contain arsenic hours, sometimes for days, and somethrough nitrate of silver, and obtaintimes for weeks. Q.-If taken mediciing a precipitate of metallic silver.nally is it apt to be retained in the sys-Marsh's test depends upon the fact that tem longer than if given in one or two when either the metal arsenic in any of noisonous doses? A.-It would be reits compounds, is brought in contact with tained longer in the system, after havwater, metallic zine, and oll of vitirol, a ing been taken in medicinal doses, than gas is formed. That gas contains the arit would in one or two poisonous doses, senic, along with the hydrogen, another for the reason that it has time, when gas which was contained in the water faken medicinally, to penetrate and which was added-that is called arsenuspread out through the entire system; reted hydrogen gas. Now that gas is while in violent, poisonous doses it may made to issue through a little glass tube be entirely thrown from the stomach with a fine opening, which has been connected by a cork to a flask, and as it without a trace being detected. The quantity found in the body after death escapes it takes fire. If you let it alone. is not always the same. If the quantito burn of itself, the hydrogen will burn up and turn to water; and the arsenic | ty taken into the system is the same, hat was there will burn up and turn to the quantity found after death would the white arsenic or ratsbane; but if now vary. The quantity which poisons varies largely; a grain, two grains poiyou hold a white china saucer down over that flame, the cold saucer will so cool son fatally at times, while two ounces down the arsenic, as to prevent it burnfail to poison sometimes. The fatal ing, and to make a bright mirror spot of result varies widely in time, between two hours and two years .--It depends on the power of resistance to timony and other metals. Q.—Were the poison in the human system; different inprocesses used by Dr Rand for estimat dividuals have widely different powers of bearing the effects of arsenic, depending upon the condition of health or various other causes; and the same individual at that he had treated the stomach first different times has widely different tolwith hydrochloric acid for some days, in a covered vessel, and afterwards with hydro chloric acid and chlorate of potassa; and after digesting for a time with heat, until all the organic matter had been broken up, and the chlorine expelled, he transmitted through the liquid, for several days, sulphereted hydrogen gas, with a view to throw down-or precipitate the arsenic and any metals that might fall by it. He gathered this precipitate and treated it with weak ammonia, which was intended to dis-

tected, without saying anything of a I do not know. I have no facts of could be detected. Having performed observation to form an opinion upon. I these experiments only late, yesterday, presume it would be taken up in the we had not the opportunity of the best circulation in two days. I think one advantages of light. This tube repreday would be sufficient to take it. If it sents the one-six thousandth part of a is a small quantity it won ld be taken grain. We recognized it as arsenic, up immediately, a larger dose in less We took a box like that, placed in it a short time. The absorption is a conlittle rochelle salts and shook it; then tinuous process. If the stomach were let fall on top one-twentieth of a drop full when the doses were given, as of Fewler's solution. We then digesbefore mentioned, and if the food was ted it in pure muriatic acid. Obtained in a digestible condition, one day would acid and copper from Prof. Himes, and be sufficient to take up the arsenic. I obtained the arsenical crystals in this tube. If the box of powders had got the twelve thousandth part of a grain of arsenic, it would have shown arsenic by Prof. Rand's method. It is the practice of chemists as to the reception of substances supposed to contain poison, to enquire where it came from. conveyed into the bloodvessels. That and by what authority it was sent, and to whom we are to look for compensation for the work; and to take pains to ascertain that it has came to us so protected as that there was no chance of it having been tam pered with; and if the chain be not complete and perfect in that respect, we refuse to have anything to do with it, consid ering it a more waste of time. I frequently, and I know that other skilful analytical chemists, do the same, and like myself receive •letters and packages coming from various sources with the request that we should examine for poison, and we always decline. Q,-By the Court.-When a person had taken arsenical powders and pills, and Fowler's solution, containing in all 161 grains of arsenic, during a period of three months, would gastro enteritis be more likely to be caused by eating unwholesome food, than if no arsenic had been previously taken medicinally? Ans .- I think it would, and even if a much smaller amount had been taken in that period. I frequently make analyses of substances supposed to contain poison. Cross Examined .- Dr. Rand is a skillful physician and chemist, and the eminent position of Prof. in Jefferson Medical College, gives him naturally a high reputation. When we speak of arsenic being in the stomach, that expression has two very different stomach, as that water is in that glass, inside the cavity of the stomach. But if I throw all that water out of the rant powers. A person might be pois- glass and water could form a part of the oned fatally by a certain quantity of glass itself, we might still say there arsenic, given in one dose. Yet if they was water in the tumbler, because it are trained to it by taking it in small was incorporated in the glass-just in quantities and gradually increasing the the same way arsenic may be in the quantity, they may become so able to envity of the stomach, and over the tissbear its presence or effects, as in time to uesor structure of the stomach. A person take with impunity what would be con- may vomit all the arsenic out of the sidered fatal amounts. Thus the arsenic cavity of the stomach, and there may eaters of styria, are able to take 5 grains be still arsenic in the tissues of the of arsenic at a time with impunity. This stemach. Arsenic in solution is taken tolerance of arsenic, having been carried up by the absorbents more rapidly than to a certain extent, and the person feel-ing that it is going too far, and desiring up at all. It must become a Wouldn't the symptoms occasioned by Wouldn't the symptoms occasioned by to suspend its use, would, in all proba-

al and a second se

dor.'t think the books announce that arsenic is taken up more rapidly than any other metallic poison. That it is taken up in the circulation immediately is a physiological fact known to the merest medical tyro; and yet I be found by analysis. I do not know of would say, cases have been found in any case where the whole quantity of which arsenic has not been detected in arsenic had been found by analysis. the tissues, but that was under other circumstances. I cannot tell how soon, a channels of the circulation, and deposigrain of white arsenic would be absorbed; + ted in the different organs as the blood I have not the data to form an opinion, flows around through the body, and or honestly answer that question. Two therefore the stomach receiving so much days might absorb it, and might not. | blood receives so much arsenic out of the Where patient lived three days, particles | blood. This is of course independent of of arsenic have been found in the body. that which adheres simply to the struc-If you turn to the earlier pages of Taylor, ture of the stomach; it being under you will find a case cited in which a percon had taken } grains of arsenic in 24 circulation has been allowed. The days, and then stopped its use entirely. Tthen stopped it, and at the expiration of a month from that time, arsenic was discovered in the urine. Orfilla s recognized as good authority, but is replaced by more recent works. The books say it is often eliminated in twelve or fifteen days. If the kidneys are diseased, by which the flow of urine is interfered with, the elimination by that source cannot be as fast as in other cases: It might be a good deal more or a good deal less than fifteen days, before the arsenic would be eliminated from the organs where it has been absorbed and lodged. The kidneys are to be opened by making sections into them. I would examine the organs by making sections, cutting them through and through. I do not profess to be an expert on the subject of obstetricks. I would not undertake to man of high reputation. Occupying | tell what form disease would take resulttug from the ovaries. Valunlar disease of ure. I did look through the microscope heart would be most manifest in the at two tubes of crystals, and though symptoms of the heart itself. Enlargement of heart you have a protrusion over heart, which can be felt from exterior. meanings. It may be arsenic in the I do not know that it would cause death by vomiting and purging. Q. When arsenic, administered medicinally, causes injuries instead of the healthful effect desired, are these effects manifested, and how do they manifest themselves? A. They manifest themselves very variously, according to the condition of the system for which they were administered, and the quantity given. The effects any statement from Dr. Rand that he of arsenic are subject to many modifications, as is the case with a great many other medicines. There are no invariable | yellow shot particles found on the filter and fixed symptoms, in case of slow polsonous action of arsenic, any more than a violent action. They are sense of weakness, langour, nausea sickness of stomach solution before it can be absorbed. arsenic, medicinally given, when causswelling under the car was doubtless He then evaporated the solution of the bihty, very quickly die if he did so sud- The absorbents are the infinitesimally ing an injurious instead of a beneficial is in the manner Dr. Rand obtained it. sulphuret of arsenic, dissolved in am- denly; but if he came down the hill, by minute orifices, which are able to drink effect, exhibit themselves more and more Q.-" Have you ever, after carefully idence or mark of any disease. From sulphuret of arsenic, dissolved in am- denly; but if he came down the hill, by minute orifices, which are able to drink effect, exhibit themselves more and more Q.—"Have you ever, after carefully minute orifices, which are able to drink effect, exhibit themselves more and more Q.—"Have you ever, after carefully minute orifices, which are able to drink effect, exhibit themselves more and more Q.—"Have you ever, after carefully minute orifices, which are able to drink effect, exhibit themselves more and more Q.—"Have you ever, after carefully minute orifices, which are able to drink effect, exhibit themselves more and more Q.—"Have you ever, after carefully minute orifices, which are able to drink effect, exhibit themselves more and more Q.—"Have you ever, after carefully minute orifices, which are able to drink effect, exhibit themselves more and more Q.—"Have you ever, after carefully is a previous of the larger vessels and as the administration was continued? A. washing such precipitate, dissolved it in my experience and reading, these spots more and more Q.—"Have you ever, after carefully is a previous of the larger vessels and as the administration was continued? A.

the circulation ? A

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You can draw no conclusion from the amount of arsenic found in the stomach, as to the amount taken. The quantity found would not indicate that a larger quantity had been taken, where there had been violent vomiting and purging, the patient living three or four days, and when the chemical analysis had discovered a notable quantity of arsenic. You cannot definitely relate the quantity taken to the quantity found in the tissues of the body; because at times a large amount of arsenic may be taken, and yet very little of it be found in the organs named, compared with the amount taken, and again a little may be taken, and a larger proportion of it found in the organs .--You cannot tell from a less amount being taken that a large amount would The arsonic is taken up, carried through stood that complete 'absorption and metals arsenic, mercury and antimony will be volatilized when heated in a reduction tube in the Reinch test. Antimony will volatilize at the heat of an ordinary spirit lamp, if you get the intensest heat the alcohol will give, and your glass tube be very small, so as to bring the copper foil under the influence of that intense heat, while you get the arsenic and mercury readily volatilized, you will get a displacement of the autimony simply .---Antimony will not give eight sided crystals. I saw some crystals of eight sides in the tube handed to me. I did not say in presence of W. H. Miller, Dr. Reese. Prof. Himes and W. F. Sadler that the photographs represented eight sided crystils. I said that with that glass, a mere pocket glass, the coarsness of the paper prevented me making their precise figthey were eight sided crystals. Dr. Rodgers did not say housed the coroborative tests with reference to the precipitate he obtained from the stomach. I have not yet heard that the proper test was made on that yellow precipitate he procured. I stated this morning that some of the authorities say that some cf those little yellow particles found on inner coat of stomach, and which resemble sulpheret of arsenic, are often really a mixture of albumen and fat. In the absence of made any chemical examination of them, the question is an open one, whether the were orpimen or fat and albumen. I have tried the method Dr. Rand made use of. until I learned the fallacy of it. I have used hydro chlorich and potash to destroy the organic matter. I have precipitated such a solution with sulphureted hydrogen. I have obtained sulphide of arsen-

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Cross Examined.-The symptoms, in case of poisoning from arsenic, have so many exceptions that there is no safe ule.

Dr. JOHN J. REESE, sworn .-- I reside in Philadelphia; am practicing medicine. I hold chair of medical jurisprudence and toxicology in University of Pennsylvania. Four years ago I occuied chair of chemistry in Pennsylvania ollege, Philadelphia. There is no vidence from the post mortem that death was cau-ed by an irritant poison. I base this opinion upon the fact that the autopsy was not sufficiently exhaustive to determine. It omitted the organ specially concerned, namely the stomach. A medico-legal examination should be performed in a thoroughly exhaustive manner, so as to leave unexamined no organ which might be the seat of disease and death. It omitted the examination of certain parts of the body which might have been the seat of lesion or disease, and therefore left the matter not thoroughly decided. I have known of a case in which an examination was made after death, from an unknown cause, in which, on opening the hody, the lungs were found deeply inflamed this would have been a sufficient cause of death, and would have been so considered if the examination had proceeded no further, but on opening the gulleta mass of meat was found there impaced which had caused strangulation. and this was the real cause of death.-For this reason the authorities always nsist on an exhaustive examination, for medico-legal purposes. As far as I remember, there was a failure dritically to examine the condition of the heart. and csophagus; also the spinal marrow; also the kidney, the uterine organs. I believe with these exceptions, the autopsy was very faithfully performed. I regarded the spots on the skin as the ordinary death spots, the result of putrefaction, which occur in every dead body sooner or later, and are not due to any disease. The spots under the ear I attribute to the same cause. Soon after the death the blond settles in different parts of the body, and changing in its color causes these spots. I should think it was not possible for an inspection of the exterior of stomach to determine the condition of inner or mucous coat. The opacity of the walls of the stomach preventing us from