CHICAGO MEDICAL SOCIETY.

Stated Meeting, Oct. 18, 1886.

E. J. Doering, M.D., President, in the Chair. Dr. R. W. Bishop read a paper entitled

IS ALOPECIA PREMATURA CONTAGIOUS?

Dr. Bishop thought this disease due to micro-organisms upon the shafts of the hair, and that it is contagious. He has made a series of experiments, that of a perfectly healthy young man whose head was nearly bald on top. The hair from the diseased surface was brittle and came out easily when pulled. Microscopic examination revealed a large number of fungi on the scalp and the shafts of the hair, the root being free from the parasite. The diseased hairs were cut and mixed with vaseline, which was rubbed on the skin of healthy rabbits, and in two weeks the hair entirely disappeared from the parts which had been rubbed. Experiments were continued, and it was found that the hairs from the inoculated animals possessed increased virulence.

thoroughly washed for fifteen minutes with tar soap, which was removed with warm water. The head was then exposed to a warm water douche, which was gradually cooled until the water was quite cold; it was then rubbed with a rough towel until dry, and afterwards washed with a solution of corrosive sublimate 1:500. This was removed and a ½ per cent. of hthol applied, and, after this, 1½ per cent. carbolic oil was applied very slowly. The treatment was continued daily for eight weeks, and the result was a fine growth of new hair with beginning pigmentation at the end of three months.

Dr. Joseph Zeisler thought this was a disease which possibly might be produced by vegetable organisms. He knew of Dr. Bishop's experiments, but still there were strong objections to the value of these experiments. Michelson made some experiments by using a mixture of vaseline and rancid oil and rubbing it on the skin of guinea-pigs, and after these inunctions the animals got bald on the places anointed, although neither sick hairs nor scales were used. There are older experiments which show that animals fed on old cheese or hard boiled egg get bald. Another point was, that the disease is so frequently met with in men and so rarely in women, between whom there are plenty of chances for contagion. It is an ascertained fact that the disease most frequently occurs in men who in their earlier years (17 to 25) suffer from pityriasis of the scalp, so that there certainly is a causal relation between this affection and alope-After all, he thinks that the contagiousness of this disease is still an open question.

Dr. Frank Billings made some remarks on

HOSPITAL PRACTICE IN VIENNA, WITH EXHIBITION OF NEW URINE TESTS, NEW INSTRUMENTS, ETC.

The hospital at Vienna contains about 2,500 beds. The number of deaths per year is about 3,000. Prof. has from 80 to 100 patients in his ward continuously. | covered bacteria goes on with enthusiasm.

Histories of the patients are written by assistants and left in charge of the nurses. Temperature charts are kept of important cases, the temperature being taken every two hours. Daily clinical and microscopical examinations are made of the urine in all important and grave cases. Dr. Billings gave an illustrated description of the tests employed. He said that in the Vienna hospitals some form of tuberculosis is found in nearly 70 per cent. of the deaths. The treatment of acute diseases is generally expectant, and in tyassisted by Dr. Oscar Lassar. A typical case was phoid fever, milk and other liquid diet is used. Previous to 1879, when the city obtained its water from the Danube River, typhoid fever was almost epidemic in Vienna. In that year they put up new water works, and since that time not one case has developed in the city. The obstetrical department is divided into three clinics, with 3,000 confinements in each clinic yearly. Four cases of sublimate poisoning occurred last winter. The autopsies showed ulceration throughout the alimentary tract with charred, black appearance of the mucous membrane throughout the colon and rectum. The solution used in these cases was I to 4,000, bichloride of mercury. The patient was treated as follows: The head was Abortion is treated by rest in bed with non-interference, unless too severe hæmorrhage occurs, when tampons are used. In the gynecological department Prof. Braun performs laparotomy every Wednesday. Where a part of tumor is left in the stump, the prognosis is bad even when treated externally, because of the low vitality of the tumor tissue, which becomes necrotic. In operations about the anterior vaginal wall no anæsthetic is used. In the surgical wards of Profs. Billroth and Albert, closest attention is paid to The operating rooms are constructed with floors inclined to the centre, where a grating allows all blood, water, etc., to flow away. The floor is thoroughly douched every day. Sponges, silk sutures and towels used in operations are boiled in a 5 per cent. solution of carbolic acid for one hour, then placed in a 5 per cent. solution for fourteen days. Cutting instruments are polished and placed in a 2½ per cent. solution of carbolic acid during the operation. Instruments used in operations for abscesses. etc., are heated in flame and sent to the instrument maker to be repolished. A 1d per cent. solution of carbolic acid is used for irrigating wounds during operation. For partial amputation of the tongue a bloodless method is used as follows: First, a double stout suture thread is passed through the centre of the tongue from below upward and backward, beginning at the frænum; the two threads are twisted and tied upon the side firmly enough to control the vessels. The part is then amputated smoothly by taking out a triangular section. Two deep, and a sufficient number of superficial sutures close the wound after the vessels are secured. A bacteriological laboratory is connected with the pathological department, and cultivations of bacteria are made from typhoid fever, pneumonia, crysipelas, glanders, septicæmia and other Experiments with bacterial cultures are diseases. made upon lower animals. Nearly every department of the hospital now has a bacterial laboratory, and the Nothnagel, who presides over the first medical clinic, search for new forms and confirmation of already disevidence of kidney diseases, the only proteids of any more decided if ammonia be added. significance were serum albumin and globulin. The presence in the urine of peptone, hemialbumose, etc., points to morbid conditions outside of the kidneys, and whatever light they may shed upon general conditions, they afford us no information whatever as to the state of the kidneys. He mentioned this because so much had been written of late on peptonuria, and the various transition proteids, that an impression seemed to have arisen that the presence of these in the urine was of scarcely less importance than that of serum albumin. The only bearing these non-homogeneous proteids have upon the subject is the fact that their occasional presence in the urine may, with certain tests, be mistaken for serum albumin, unless great care be exercised.

He believed the most delicate of all tests for albumin in the urine to be the potassia mercuric iodide with citric acid; but that it had not met with general favor thus far on account of the errors liable to arise through its use. It is necessary to discriminate between the precipitates formed by this test with peptone, alkaloids, above all with mucin, and that formed by serum albumin. It is true that heat clears up the precipitates due to peptones and vegetable alkaloids, but not so with mucin, the latter being practically indistinguishable from albumin. He has lately, however, come upon a method which he believes will correct not only the errors due to the presence of mucin, but also those likely to arise from the presence of alkaloids and peptone when precipitated by this test. The method is very simple, viz.: after having applied the reagent to the suspected urine, if a precipitate be formed, add hydrochloric acid in volume equal to the quantity of urine tested; if mucin, peptone, or vegetable alkaloids be the cause of the turbidity, it promptly clears up; while if due to albumin the precipitate becomes flocculent and settles, but does not dissolve. A considerable number of experiments have shown him that hydrochloric acid in volume equal to one-half the quantity of urine tested quickly clears up the peptone, alkaloid and mucin precipitate, while it requires at least two volumes of hydrochloric acid to dissolve the slighter traces of albumin in urine when precipitated by the mercuric test.

With regard to sugar testing: In addition to the test brought forward by Dr. Billings, two new ones have recently been introduced, both of which are of such exceeding keenness that they are claimed to be able to detect 0.00001 per cent. of sugar. These tests are, alcoholic solutions 15 to 20 per cent. of sary amount of water for making the dilution is alpha naphthol, and thymol. Two drops of either of measured in one of the chambers of the well. these solutions are added to two cubic centimetres of urine, and the mixture briskly shaken; sulphuric acid is next added in quantity equal to the volume of urine, and again briskly shaken. In the case of the presence of sugar, and dilution with water throws down a violet blue precipitate, soluble in alcohol with

DR. C. W. PURDY said that in testing the urine for which dissolves with alcohol, forming a vellow color

Dr. Purdy often had samples of urine sent him, which though loaded with albumin, no casts could be found therein. These were samples of urine which had been long passed—perhaps several days before, alkaline fermentation having occurred, and the urine rendered alkaline quickly dissolves the casts. In searching for renal casts it is of the greatest importance to have the urine as freshly passed as possible. His method of examining urine for casts is as follows: First, he prefers to have the urine passed at his office. If the urine be neutral or alkaline in reaction, he renders it frankly acid by the addition of dilute acetic acid. In all cases he adds a solution of resorcin to the urine which prevents change for weeks. urine thus treated is set aside in a conical glass, carefully covered and allowed to stand for from twentyfour to forty-eight hours; at the end of this time, a few drops-not more than ten-are taken up by a glass tube from the bottom of the glass, and one or two drops placed upon a glass slide and examined under the microscope. He had had no difficulty in finding casts by this method if they were present in the urine even in sparse numbers.

Dr. Frank S. Johnson described a new form of Hæmoglobinometer, viz.:

THE HÆMOTER OF VON FLEISCHL.

It consists of a stand with a horseshoe base, an upright, a stage, and a well divided perpendicularly in two equal compartments and closed below by thin glass. One-half of the well is to hold blood of known dilution, the other half is for clear water. This well fits an opening in the stage. Beneath the stage is a plane white reflector. On the under side of the stage is a frame that can be racked back and forth. Set in it is a narrow wedge-shaped piece of ruby glass whose width is one-half that of the opening in the stage. The thicker end of the wedge gives by transmitted light the color of a dilution of blood containing the maximum amount of hæmoglobin. thinner portions correspond with the color of a dilution of blood poorer in hæmoglobin. centage of variation from the normal amount of hæmoglobin is estimated by comparing the color of the blood solution with some part of the ruby wedge. Only artificial light can be successfully used for the examination.

With the instrument are several capillary tubes for measuring the amount of blood to be used for comparison with the colored glass standard. The neces-

The blood for examination is best obtained by pricking the ball of an uncompressed finger and forcing out a drop by gentle pressure. The amount needed is taken in the capillary tube. One of the alpha-naphthol a deep violet color is developed in halves of the well having been previously half or two-thirds filled with water, the blood can be easily washed from the measuring tube into it. Then both a yellow color, or in caustic potash with a deep yel- halves of the well are accurately filled with water so low. In the case of thymol a dark red color is pro- that the upper surfaces are plane. A small pipette duced, and, on adding water, a precipitate settles, is furnished for this purpose. The well is then so adjusted that the half holding water is above the have done credit to a lawyer. Dr. Kelly had set colored glass, and that holding the blood solution re- out by disclaiming all sectarian bias; but the fact next step is to so adjust the ruby wedge that the light it transmits corresponds in color with that passing through the blood solution. The observer then reads off the percentage of the normal amount of hæmoglobin as indicated by a scale graven upon the metal frame carrying the glass wedge. The average percentage of hæmaglobin in the blood of healthy individuals varies greatly with age and sex. The average is from 12 to 13 per cent. The percentage of this amount is ascertained by comparison with the color scale. This result should be corrected as far as possible for the known variation of hamoglobin in healthy blood. Taking as the normal percentage that found in the blood of healthy individuals between 25 and 30 years of age, it is found that in the first few weeks of life the percentage is greatly in excess; but after six months or a year, it is below the adopted standard, reaching it again at about 25 or 26 years of age, and that after the thirtieth year, the amount is below the normal but is variable.

The instrument recommends itself to the ordinary practitioner. It does not entirely replace the hæmocytometer, but in all cases where it is only necessary to watch from time to time the rise and fall of the hæmoglobin in the blood, it can be done much quicker and more accurately than by the hasty counting of the corpuscles by the microscope.

Dr. J. J. M. Angear thought that it is necessary to count the globules, because we have conditions where the red corpuscles are normal in number but deficient in hæmoglobin, hence the necessity of both instruments

Dr. C. E. Webster, Chairman of the Pathological Committee, exhibited a spinal column and said that it showed caries resulting in the entire destruction of the bodies of one of the vertebræ, without the protection of the characteristic deformity before the removal of the ligaments, no curvature being noticeable.

GYNÆCOLOGICAL SOCIETY OF BOSTON.

Stated Meeting, September 0, 1886.

THE PRESIDENT, H. O. MARCY, M.D., IN THE CHAIR.

H. J. HARRIMAN, M.D., SECRETARY.

Dr. J. E. Kelly, read a paper entitled THE ETHICS OF ABORTION, AS A METHOD OF TREAT-MENT IN LEGITIMATE PRACTICE.

See page 505.)

DR. L. F. WARNER said that the paper did not admit of criticism, but deserved candid and unqualified approval. He believed that no woman ever used means for procuring the death and expulsion of the fœtus without realizing that it was a moral wrong, and that every woman who did or consented to the act thereby lowered herself morally beyond recall.

Dr. Symington Brown remarked that the paper was an admirably drawn up special plea, which might | homicide; well, so it is. Moreover, that the only jus-

ceives its light directly from the white reflector. The was that the whole plea was based on the authority of the Church, and, like many similar arguments, could not hold water. He was aware that this was not the place to discuss such a question, and did not deny that the Church had a right to dictate to its own members; but he emphatically denied its right to dictate to him. He thought that Dr. Warner had failed to grasp the real aim of the paper, which was not directed against criminal abortion, but against abortion itself under all possible circumstances. The mere fact that the word "criminal" is prefixed shows that there must be a kind which is justifiable. physician, after consultation, is the proper party to decide what is best to be done, and the patient has a right to veto his decision For his part, he only recognized one rule to be governed by, and that is, the welfare of his patient. He would like to ask Dr. Kahow his argument would apply in a case of extra-uterine pregnancy? During the early months, a current of electricity suffices to destroy the fœtus without injury to the mother. Is not a child alive outside as much as inside the uterus? Yet no conscientious gynecologist scruples to kill the fœtus under these circumstances; and, in my opinion, he is fully justified in so doing, because the welfare of the patient demands it. Would the essayist allow both the mother and fœtus to die in order to save his own conscience? According to the tenets of the paper he would.

As regards the legal tribunal to the verdict of which Dr. K. inclined, as a last resort, to refer cases of abortion, he would simply remind him that law is not infallible any more than medicine, and that innocent men have been hung on circumstantial evidence. He hoped that this Society would not indorse the idea that it is wrong, under all circumstances, to produce abortion.

Dr. A. P. CLARKE said that many women are depressed and nervous during gestation, and need the encouragement of their physician in order that they may withstand the temptation to secure a miscarriage. To treat these patients judiciously so as to tide them safely over this critical period of depression, is the duty of the physician. Dr. Clarke believes that criminal abortions are less frequent than formerly.

DR. CHAS. R. WHITCOMB thought that the physician was, to a certain extent, the custodian of the public morals, and should not assume to act as judge of life and death. He agreed with the conclusions of Dr. Kelly's paper, and did not consider abortion justifiable under any circumstances.

DR. E. W. Cushing said that the arguments of the speaker were very old, and extremely well wrought out, as some of the acutest minds of the Catholic Church had been at work on the subject for centu-The syllogism appeared perfect, and the conclusion inevitable; yet, in reality, the reasoning is somewhat sophistical, for one of the premises on which it rests is shaky. In substance the writer says that killing an infant to save the life of the mother is