1891

Sixty-Seventh Annual Announcement of the Jefferson Medical College of Philadelphia: Session of 1891-92

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SIXTY-SEVENTH
ANNUAL ANNOUNCEMENT
OF THE
JEFFERSON MEDICAL COLLEGE
OF
PHILADELPHIA.
SESSION OF 1891-92.
BOARD OF TRUSTEES.

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S. W. PREVOST,
H. D. WELSH,
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PROFESSORS.

J. M. DA COSTA, M.D., LL.D.,
Emeritus Professor of Practice of Medicine and Clinical Medicine,*
No. 1700 Walnut Street.

ROBERTS BARTHOLOW, M.D., LL.D.,
Emeritus Professor of Materia Medica, General Therapeutics and Hygiene,
No. 1527 Locust Street.

HENRY C. CHAPMAN, M.D.,
Institutes of Medicine and Medical Jurisprudence,
No. 1214 Walnut Street.

JOHN H. BRINTON, M.D.,
Practice of Surgery and Clinical Surgery,
No. 1423 Spruce Street.

THEOPHILUS PARVIN, M.D., LL.D.,
Obstetrics and Diseases of Women and Children,
No. 1626 Spruce Street.

JAMES W. HOLLAND, M.D.,
Medical Chemistry and Toxicology,
No. 2006 Chestnut Street.

WILLIAM S. FORBES, M.D.,
General, Descriptive and Surgical Anatomy,
No. 1704 Walnut Street.

WILLIAM W. KEEN, M.D.,
Principles of Surgery and Clinical Surgery,
No. 1729 Chestnut Street.

MORRIS LONGSTRETH, M.D.,
General Pathology and Pathological Anatomy,
No. 1416 Spruce Street.

H. A. HARE, M.D.,
Materia Medica and General Therapeutics,
No. 222 South 15th Street.

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Honorary Professor of Ophthalmology,
No. 1426 Walnut Street.

J. SOLIS COHEN, M.D.,
Honorary Professor of Laryngology,
No. 1431 Walnut Street.

WM. S. LEFFMAN, Clerk, At the College Building,
Tenth St., bet. Walnut and Chestnut, Phila.

J. W. HOLLAND, M.D., Dean of the Faculty.

* Professor Da Costa will continue to hold his clinical lectures as heretofore.
LECTURERS.

PROF. H. A. HARE, M.D.,
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HENRY W. STELWAGON, M.D.,
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JAMES C. WILSON, M.D.,
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EDWARD P. DAVIS, M.D.,
Clinical Lecturer on Obstetrics.
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Clinical Lecturer on Medicine.
H. AUGUSTUS WILSON, M.D.,
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ORVILLE HORWITZ, M.D.,
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E. L. VANSANT, M.D.,
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Pathological Anatomy and Curator of the Museum.

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M. H. WILLIAMS, M.D.,
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PROF. W. W. KEEN, M.D.

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PROF. THEOPHILUS PARVIN, M.D.

Gynecologist.

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J. M. BARTON, M.D.

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JAMES C. WILSON, M.D.,
CHARLES WIRGMAN, M.D.,
F. P. HENRY, M.D.

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Pathological Chemist.
HENRY LEFFMANN, M.D.

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F. B. HUSTON, M.D.,
C. F. RIEFFER, M.D.,
DAVID BEVAN, M.D.

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CHARLES MARVEL, M.D.,
K. W. EGAN, M.D.,
J. H. REMIG, M.D.
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A. A. ESHEHED, M.D., Medical Registrar.

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CHAS. S. HEARM, M.D.,
C. D. SPYK, M.D.,
NOBLE B. PARVIN, M.D.,

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J. A. IRWIN, M.D.,
E. W. STEVENS, M.D.,
PAUL BARTHOLOW, M.D.

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Assistants.
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WM. M. L. COPLIN, M.D.,
MARTIN H. WILLIAMS, M.D.,
HENRY B. MOORE, M.D.,
DAN'T. W. FLEMING, M.D.,
L. E. BENNETT, M.D.,

A. HWEISON, M.D.,

S. MAC CUEN SMITH, M.D.

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J. M. FISHER, M.D., Electrician.

Assistants.
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LUDWEG LOEB, M.D.,
E. C. WARD, M.D.,

W. H. WELS, M.D.,
R. D. HAZZARD, M.D.,
H. J. FIET, M.D.,

ROBERT B. JUDGE, M.D.,
RUDOLPH KINDIG, M.D.,
A. F. TOD, M.D.,
WM. L MILLER, M.D.,
C. A. VEASLEY, M.D.,
H. J. FIET, M.D.

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HOWARD F. HANSELL, M.D., Chief Clinical Assistant.

Assistants.
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JAS. H. BELL, M.D.,
ROSS R. BUNTING, M.D.

LARYNGOLOGICAL.
Chief Clinical Assistant.
LOUIS JURIST, M.D.

Assistants.
WILLIAM S. JONES, M.D.,
JAS. THORINGTON, M.D.

OTOGICAL.
Chief Clinical Assistant.
S. MAC CUEN SMITH, M.D.

Assistants.
G. HUDSON MAKUEN, M.D.,
JAS. THORINGTON, M.D.

ORTHOPÆDICAL.
Assistants.
J. P. MANN, M.D., Chief.
T. W. BORTE, M.D.,
ROBERT CASPERSON, M.D.

DENTAL.
Assistants.
J. ARDOTT CABRELL, M.D.,
HENRY B. NIGHTINGALE, M.D.,
JOHN LINDSAY, M.D.

NEUROLOGICAL AND ELECTRICAL.
Assistants.
E. S. LAWRENCE, M.D.
BURTON W. SWAYZE, M.D.

SIXTY-SEVENTH ANNUAL ANNOUNCEMENT
OF THE
JEFFERSON MEDICAL COLLEGE.

CHANGES IN THE FACULTY.
Prof. J. M. Du Costa has been made emeritus professor but continues to hold his clinics as heretofore.
Prof. Barthelow has accepted the title of emeritus professor.
Dr. Morris Longstret, for many years associated with the teaching corps as lecturer on Pathological Anatomy, has been elected to the recently established Professorship of General Pathology and Pathological Anatomy.
Prof. H. A. Hare, widely known as teacher, writer and investigator, has been elected to the chair of Materia Medica and General Therapeutics.

COURSE OF STUDY.
In issuing the ANNOUNCEMENT of the SIXTY-SEVENTH COURSE OF LECTURES, the Faculty of the JEFFERSON MEDICAL COLLEGE call attention to their plan for a THREE-YEARS' COLLEGE CURRICULUM. It is believed to unite the best features of the former system with the progressive and lengthened instruction now required. The studies of the first year will be as follows:—

Anatomy and Histology.
Physiology.
Inorganic Chemistry and Toxicology.
Materia Medica and Pharmacy.
Hygiene,
with laboratory work in each branch, dissection, and attendance on the general clinics. At the end of this year partial examinations will be held in Anatomy (Osteology, Synesdose and Myology) and Physiology, and final examinations in Inorganic Chemistry and Materia Medica.

Students failing in any examination at the end of this year will be required to pass in such branch before the first of the following January.

The studies of the second year will be as follows:—

Anatomy and Topographical Anatomy.
Physiology and Medical Jurisprudence.
Organic Chemistry and Urinary Analysis.
The Museum contains the extensive and valuable collection of the late Prof. S. D. Gross, M. D., which was formed by him during his long career in surgical practice, and which is especially rich in specimens of urinary calculus, diseases and injuries of the bones and joints, affections of the genito-urinary organs, and morbid growths.

The Museum occupies a distinct and capacious apartment in the College building, and is open daily, throughout the Session, to Matriculated Students.

The laboratory building is immediately adjacent to the Medical Hall, with which it is connected by a wide hall-way. This building contains the laboratories of Chemistry, of Physiology and Normal Histology, and of Operative and Minor Surgery, the Dean's office and Faculty room. The laboratories are capacious, well-lighted and completely arranged for the purposes to which they are applied.

HOSPITALS AND DISPENSARIES.

The Hospital of the Jefferson Medical College is situated immediately west of the College, fronting on Sansom street, and is bounded on three sides by streets, and by a wide private passage way on the fourth side. It is 107 feet square, five stories in height, and is designed for the easy accommodation of 125 patients. In connection with the hospital is the out-patient or dispensary department of the College, which furnishes valuable material for clinical instruction. The amphitheatre for Clinical Lectures is one of the largest and most convenient in the United States. The most approved appliances for heating and ventilating have been provided, and, in architectural construction, and all desirable conveniences, this hospital will be found at least equal to any American clinical hospital.

The Jefferson Medical College Hospital and the Dispensaries, where a large number and great variety of cases are annually treated, furnish patients for daily Clinics at the Hospital, which are given throughout the entire year, by members of the Faculty, by special clinical lecturers, and by the Hospital Staff. The Surgical Clinic is held on Wednesdays and Saturdays, by Professors Brinton, Forbis and Keen; the Medical Clinic, on Mondays and Thursdays, by Professors D'Acosta, Hare and the Professor of Practice; the Gynecological Clinic, on Tuesdays, by Professor Parvin; and the Clinic on Diseases of the Eye, by Prof. Thomson, on Fridays. There will also be Clinics on Laryngology by Prof. Cohen, on Orthopedic Surgery by Dr. H. A. Wilson, on Diseases of Children by ———; on Diseases of the Skin by Dr. H. W. Stetwago. During the last year seventeen thousand new cases were treated at the College Hospital and Clinics, and more than one thousand surgical operations were performed. We have the pleasure to announce that a Maternity Department is in successful operation. It is under the immediate charge of the Professor of Obstetrics, and opportunities for clinical instruction in Obstetrics are afforded to advanced students.

The practical use of the ophthalmoscope is taught to all candidates for graduation, in classes of convenient size, at the College Hospital, by Professor Thomson and Assistants. Instruction in the practical use of the laryngoscope is
also given to these classes by Dr. Jurist, the chief clinical assistant in this department. An electrical room, containing the necessary apparatus for instruction and for clinical purposes, will be regularly utilized.

The Pennsylvania Hospital, a large and well-equipped institution, is situated in the immediate vicinity of the College. The field for instruction in acute diseases and surgical injuries is very large, and the staff is composed of physicians and surgeons eminent in their respective departments. The students of Jefferson College, by reason of the proximity of the Hospital to the College, and its immense resources for the illustration of all forms of diseases and accidents, have peculiar advantages. Prof. DaCosta and Prof. Longstreth are members of the staff.

Philadelphia Hospital.—This extensive Hospital presents a large number and variety of cases for clinical instruction. The College is represented on the hospital staff by Prof. Parvin, and Drs. Davis, Horwitz, Wm. Ashton, Van Sant, Hearn, Henry, Solis-Cohen, Gould, Barton and Stelwagon. Under these instructors, assisted by Drs. J. Chalmers DaCosta, Eschner and Thos. Ashton, the graduating class, divided into sections of suitable size, will study at the bedside. Out of the thousand or more cases in the wards nearly every form of disease, medical and surgical, can be amply illustrated. Cases of smallpox and of other contagious diseases are treated at the Municipal Hospital, a separate and distinct institution.

St. Agnes' Hospital.—In February, March and April, Prof. Harr, and in May, June and July, Prof. Keen will hold a clinic at St. Agnes' Hospital, 1900 South Broad St., where there are many important operations done, to which the students will be admitted.

German Hospital.—The staff of this important hospital have now made arrangements for conducting clinical teaching, in which the resources of this excellent institution are utilized to the fullest extent. Drs. Wolff, Barton and Wilson are members of the staff, and will use the clinics for the benefit of their classes. A clinical amphitheatre, with ample seating capacity, has been recently erected.

Orthopedic Hospital and Infirmary for Nervous Diseases.—Prof. Keen, as a member of the staff, will be able to utilize this material for the illustration of his clinical lectures.

Wills Eye Hospital.—This old and extensive hospital is within a short distance of the College, and daily Clinics are held there. Students desiring to take private courses have the opportunity afforded them, and can obtain instruction from members of the staff or from the clinical chiefs.

In all, Philadelphia has twenty hospitals, nine dispensaries and thirty-eight other charitable institutions with which infirmaries are connected. Almost every special branch of medicine and surgery has its distinct institution, as the Orthopedic Hospital and Infirmary for Nervous Diseases, Dispensary for Diseases of the Skin, Children's Hospital and others. Graduates and advanced students desiring to pursue any special branch of medical science, or any of the recognized specialties, have, therefore, admirable opportunities afforded them in these various hospitals and other public medical institutions.

Clinical instruction and admission to the wards in all hospitals of Philadelphia are free to the Matriculates of the Jefferson Medical College.

ORDER OF LECTURES AND PRACTICAL INSTRUCTION.

FIRST YEAR.

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<th>MONDAY</th>
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<td>Anatomy</td>
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ORDER OF LECTURES AND PRACTICAL INSTRUCTION.
SECOND YEAR.

<table>
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<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
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<td>Dissection.</td>
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<td>10</td>
<td>Organic Chemistry.</td>
<td>Practice of Medicine</td>
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<tr>
<td>12</td>
<td>Experimental Physiology.</td>
<td>Experimental Surgical Clinic, Jefferson Hospital.</td>
<td>Institutes of Physiology.</td>
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THIRD YEAR.

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<th>MONDAY</th>
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<td>11</td>
<td>Skin Clinic.</td>
<td>Renal Clinic.</td>
<td>Surgical Clinic, Jefferson Hospital.</td>
<td>General Medical Clinic.</td>
<td>Orthopaedic Clinic.</td>
</tr>
<tr>
<td>12</td>
<td>General Medical Clinic.</td>
<td>Gynaecological Clinic.</td>
<td>Practical Obstetrics and Hospital Practice in Sections.</td>
<td>Practical Pathology.</td>
<td>Practical Pathology.</td>
</tr>
<tr>
<td>3</td>
<td>Surgical Clinic.</td>
<td>Jefferson Hospital.</td>
<td>General Medical Clinic.</td>
<td>General Medical Clinic.</td>
<td>EYE Clinic.</td>
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PRELIMINARY LECTURES.

The Fall or Preliminary Session begins on Monday, the 21st of September, and continues until the opening of the Winter Term.

WINTER SESSION.

The next Session will begin with the General Introductory Lecture by Professor Longstreth, on Thursday evening, October 1st, 1891, and will terminate April 27th, 1892. During this period instruction in the various branches of Medicine will be given by the Faculty, assisted by a large corps of demonstrators, according to the roster on another page.

In addition to the General Clinics there will be given Clinical Instruction on the following special branches:—

- Gynecology.
- Renal Diseases.
- Orthopedic Surgery.
- Diseases of Children.
- Dermatology.
- Neurology.

In the Didactic Lectures the rich cabinets of the school and of the individual Professors are freely used for the purpose of illustration. As is well known, the lectures of the Faculty have always been eminently demonstrative, and this characteristic will continue to be prominent and distinctive.

THE DIDACTIC LECTURES.

It will be perceived, from the above, that the course of instruction continues through eight months of the year. The important part of the period of study is, of course, the Winter Session of seven months, and this alone is obligatory. As the fees paid for the Spring Session are remitted to those taking the ensuing winter course, except the registration fee of five dollars, and as the preliminary or fall term is free, the fees paid for the regular term cover almost the whole cost of instruction for nine months.

THE CLINICAL LECTURES.

Clinical instruction has always been an important feature of this College, in which, indeed, systematic clinical methods were first inaugurated in this country. The amphitheatre of the Hospital is one of the most commodious in the world, the material of the Clinics is most abundant, and represents almost every possible condition of disease and injury. According to the last annual report made to the State Board of Charities, the Hospital, during the thirteen years it has been in operation, has treated in its wards 15,102 cases of disease of all kinds, except those either contagious or infectious. In the out-patient service there have been treated in that time for:

- Medical Diseases, 38,366 patients.
- Laryngological Diseases, 14,308.
- Ophthalmological Diseases, 4,965.
- Aural Diseases.

Making in all 111,386 patients treated in thirteen years. The examinations and prescriptions given to these patients amount to 504,831. Over 7500 operations have been performed before the class.

During the last year 1003 accident cases were treated; the number of patients cared for in the wards was 1823, and in the out-patient service 13,203 were treated. Since the opening of the Hospital in 1877, the Board of Trustees have expended $622,450 in the care of the sick and injured. Besides the immense facilities of the Clinics at the College Hospital, students can attend at the various hospitals and dispensaries before mentioned, the lectures being so arranged as to afford them the opportunity to do so.

The teaching corps of the College are connected with hospitals in the city, having in the aggregate at least 1500 beds, which will be available for its students.
**PRACTICAL AND LABORATORY INSTRUCTION.**

The courses of Practical and Laboratory instruction are obligatory, and without extra charge, except for material used in the dissecting and operative surgery room. Candidates for partial examination will be required to attend those branches on which they desire to be examined at the end of the session. Graduates of other schools who do not propose to take the degree, are permitted to attend these courses, if they so desire.

**THE LABORATORY OF PRACTICAL AND MANIPULATIVE OBSTETRICS.**

The Demonstrator of Obstetrics, under the supervision of the Professor, will train the students in each section in the various manipulations, by hand and instrumental means, necessary for the investigation and local treatment of the disorders of the reproductive system which obtain chiefly in the non-pregnant state. He will further instruct them in the diagnosis of the presentations and positions of pregnancy, with the modes of rectifying errors and accomplishing delivery by manual and instrumental means. The cadaver, principally, will be used in these teachings, and in addition, models, diagrams, and the manikin will be resorted to, as they may be required.

**OPERATIVE GYNAECOLOGY.**

Third-year students will be taught the different surgical operations upon the female sexual organs, these organs after removal from the cadaver being fastened to Schulze's obstetric model, the method being that which was originated by Prof. Winkel of Munich, and which he has employed very satisfactorily for some years.

**CLINICAL OBSTETRICS.**

In the Maternity Ward of the Hospital classes are instructed in the signs of pregnancy, diagnosis of presentations and positions, and the management of the pregnant and the puerperal states. In the out-patient department, patients are attended at their homes by students of the graduating class under the direct supervision of the Demonstrator. During the Winter Session of 1888-89, 105 pregnant women were registered, and every graduate had the opportunity of attending cases of labor.

**CLINICAL MEDICINE.**

The special instruction in clinical medicine, heretofore conducted under the supervision of the Professors at the Hospital, will be continued. The course will be illustrated by the ample material of the daily clinic. Each student will thus be made familiar with practical medicine. Facilities will also be afforded for practical instruction in Physical Diagnosis at the College Hospital. Sections of the class will, at hours set apart for the purpose, be taught by special instructors, under the general supervision of the Professor of Practice, on patients, on whom the physical signs of disease will be demonstrated. The success attending this method of instruction at previous sessions encourages the hope of the best results from its continuance. Bedside instruction will be a prominent feature of the third year.

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**THE LABORATORY OF PRACTICAL CHEMISTRY.**

The working laboratory for Medical Chemistry and Toxicology is under the supervision of the Professor of Chemistry, aided by the Demonstrator and his assistant. Each student during his course has assigned him a table, with full reagent sets and a lock-drawer containing all needed appliances. The instructions here given will be in harmony with the chemical lectures of the Winter Session, and will be conducted in such a manner as to secure to the student a practical familiarity with the apparatus, materials, processes and reactions which are the subjects of his professional study, and which are to be availed of in his subsequent practice.

The course of the first year will consist of—

I. Manipulations, in which each student will himself perform various experi-
**DIGESTION AND ABSORPTION.**—Chemical appliances for the investigation of the properties of the albuminous bodies, the chemistry of the tissues, the composition of the digestive fluids, blood, etc., instruments for making gastric and intestinal fistula, water baths and dialyser, and apparatus for recording rate of secretion.

**CIRCULATION.**—Czermack’s holders; kymographion clockwork motor; Foucault’s regulator and three recording cylinders, including those for continuous traces; mercurial manometers; Bernard’s differential manometers; Brindley’s and Sanderson’s cardiographs, cardiophone with telephonic attachment, Haldat’s and other apparatus for demonstrating hydrostatic phenomena; Marey’s simple cardiograph and sphygmograph with Sanderson’s modification; Marey’s apparatus of rigid, elastic and vertical tube; arterial schema; Hawley’s vascular schema; Majendie’s cardiotometer; Fick’s spring kymograph; Marey’s cardiac clump; Coat’s apparatus with Brubaker’s modification; Franck double myograph; Marey’s cardiac sounds for horse, apparatus for retardation of pulse, cardiograph for small animals, Ludwig’s stroboscope, and apparatus for studying capillary circulation, the warm and electrical stages, gas chambers, Gower’s apparatus for counting blood corpuscles, and a hemoglobinometer.

**Respiration.**—The Pettenkofer-Voit respiration apparatus; Regnault and Reiset’s respiration apparatus; Valentin’s respiration apparatus; Hutchinson’s spirometer; recording stethometer; Marey’s pneumograph; Ramberger’s apparatus; Rosenthal’s apparatus with Brubaker’s modification; aerotonometer; Gréhant-Alverguiat gas-pump; apparatus for artificial respiration, with water motor; anemometer scales turning the beam at the 1/2s of a grain, and standard barometer; Callibourne’s instrument for vibratile cilia.

**Calorimetry.**—Thomson’s and D’Arsonval’s calorimeters; thermometers, etc.

**Secretion.**—Roy’s kidney onkometer and onkograph. Apparatus for determining rate and amount of urea.

**NERVOUS SYSTEM.**—Du Bois-Reymond’s induction apparatus with Helmholtz’s modification; spring myograph; muscle telegraph, non-polarizable electrodes, diverting chambers, key, rhocord, round compensator, resistance box, whipple; commutator; moist chambers; Wiedemann’s galvanometer, including telescope and scale; Thomson’s Elliott galvanometer, including shunt, scale, lamp, etc.; Bunsen and Daniell batteries; Page’s vibrator; metronome; chronograph; tuning forks, marking keys; Bernstein’s differential herotome; Helmholtz’s electro-magnetic rotator and myophone with telephonic attachments and pendulum myograph; Pfliiger’s myograph; Gréhant’s chariot with clock-work motor; Brubaker’s apparatus for electrotonus; apparatus for reflex movements, and Ludwig’s section cutter for spinal cord.

**Vision, Voice and Hearing.**—Models of eye; Kuhne’s artificial eye; Helmholtz’s ophthalmometer; models of larynx and ear; acoustical apparatus, including air-pump and bell; Helmholtz’s siren; acoustie bellsows; sonometer; rods, membranes, plates, pipes, resonators, oboe vox humana; Koenig’s manometric apparatus.

**Embryology.**—An incubator, capable of holding one hundred eggs for the study of development, and numerous microscopic sections.
Comparative Physiology.—This collection, embracing several hundred specimens, many of which are extremely rare, illustrates the comparative physiology of the teeth, stomach, etc., of the circulatory, respiratory and genito-urinary organs, of the nervous system, and of the successive stages in the development of the human embryo. The collection is used in supplementing the experimental demonstrations.

Arrangements have been made through which the laboratory can be also supplied from time to time, as required, with living fresh water and marine objects for biological study, as well as ample material for dissection.

THE LABORATORY OF OPERATIVE AND MINOR SURGERY AND BANDAGING.

As heretofore, in this department, the Demonstrator, under the direction of the Professors of Surgery, will instruct the third-year class in the various manipulations of operative and minor surgery. For this purpose, they will be divided into sections, who will be admitted in rotation into the surgical rooms. At these successive meetings the various bandages and fracture dressings will be exhibited and explained, when each member of the class will be required to apply them. Each section will then be required to practice ligations, amputations and special operations upon the cadaver. The Demonstrator will give instruction in surgical anatomy, the management of instruments and the proper methods of operating; and the operations will then be performed by each student.

THE LABORATORY OF NORMAL HISTOLOGY.

The instruction in Normal Histology embraces the manner of using the microscope, the cutting, staining and mounting of sections, and the demonstration of the minute or microscopical anatomy of the various tissues and organs. This department is furnished with numerous microscopes and apparatus for imbedding, freezing and section cutting. The class is divided into sections of fifty and each student is supplied with a microscope.

A cabinet of 1000 specimens, carefully mounted by an expert, has been purchased for the use of this department.

THE LABORATORY OF PATHOLOGICAL ANATOMY AND HISTOLOGY.

During the winter term opportunities are offered to the students of being present, in sections, at autopsies by Prof. Morris Longstreth, Pathologist to the Jefferson Medical College Hospital and to the Pennsylvania Hospital. Instruction is given in pathological anatomy and pathological histology, to the class in sections, during the winter term, in the laboratory. Abundant materials for this work are derived from the autopsies and surgical operations at the Jefferson Medical College and the Pennsylvania Hospitals, and the classes in the laboratory are supplied with specimens, to be examined microscopically, and explained to them by the Demonstrator.

The preparations of sections of morbid specimens, and the application of the microscope to pathological work in practical medicine, will constitute a part of the instruction in this department.

THE PRACTICAL COURSES.

The several practical courses above described will be under the direct personal superintendence of the Professors, assisted by their Demonstrators. These practical courses are, as their name indicates, entirely demonstrative. During the hours devoted to the practical work no lecturing is done, and only so much conversation with individuals is permitted as may be necessary for the unavoidable explanations.

Graduates and advanced students desiring private courses in any of the departments of instruction, can arrange to obtain them of qualified instructors.

PRactical Anatomy.

The rooms are spacious and provided with every convenience. They are open during the Winter Session, daily, from 8 A.M. to 10 P.M.; and during September, April, May, and to the middle of June, daily, from 8 A.M. to 6 P.M.

The material is furnished at the small charge of $1 per part, and no extra or incidental charges are made.

Under the operation of the Anatomical Act, the supply of material has much increased and is ample.

Changes in the methods afford the opportunity to render the teaching of Anatomy more efficient. No lectures are given by the Demonstrators, but their duties are confined to directing the work of the students, and their work will have two special features:—

1. The demonstration of the bones, ligaments and joints to the student beginning anatomical study.

2. The demonstration on the cadaver, as the students proceed in their dissections.

With the view to introduce students properly to the study of Practical Anatomy, before beginning dissections, each student, with the material in his hands, will under the direction of the Demonstrators, acquire the necessary elementary knowledge of the skeleton and its articulations.

The bones and joints will be demonstrated, and loose bones will be issued to each student, which he may also take to his room, for more deliberate study.

The demonstrations on the cadaver will be made systematically, to render the dissections of the student more intelligent, and to facilitate his acquisition of anatomical details. Careful supervision will constantly be had of the work of the students as they proceed in their dissections, to insure thorough acquisition of anatomical knowledge, which must ever constitute the groundwork of a medical education.

SPRING LECTURES.

Supplementing the regular Winter Didactic and Clinical Lectures there is a Spring Session of Clinical lectures and laboratory work.

The Spring Session begins about the Middle of April and closes on the first day of June.

The Lectures in this Course during the Spring of 1891 were as follows:—

Genito-Urinary Diseases, . . . . . . . . . . . . . . . . . . . . . . . . . Prof. BRISTON.
Ophthalmic Surgery, . . . . . . . . . . . . . . . . . . . . . . . . . . Prof. THOMSON.
Diseases of the Anus and Rectum, . . . . . . . . . . . . . . . . Prof. KEEN.
Venereal Diseases,          Prof. FORBES.
Pediatrics,               Dr. O. P. REX.
Dermatology,             Dr. HENRY STELWAGON.
General Medicine,        Dr. WIRGMAN.
General Surgery,         Drs. HEARN and BARTON.
Gynecology,              Dr. MEARS.
Laryngology,             Dr. JURIST.

Entrance examinations, as a test of fitness for entering upon the study of medicine, will be held Sept. 22d, Sept. 29th and Oct. 6th, at 10 A. M., and at other times by special arrangement.

To be admitted without examination, the applicant must show a teacher's certificate, or a diploma from some recognized literary or scientific school, or a certificate of having passed a college entrance examination, a college matriculation ticket, or a satisfactory certificate from the master of some academy or high school, or the certificate from the examiners of a County Medical Society. In the absence of such evidence of having acquired a suitable education, the applicant must stand an examination in English and elementary Physics, at the college, or at a distance, before some examiner appointed by the Faculty. To save time the applicant is advised to bring his certificate with him. Those who have been previously matriculated at other Medical, Dental or Pharmaceutical colleges exacting a preliminary examination, and all graduates of medicine, are exempt from this requirement.

SPECIAL INSTRUCTION FOR PRACTITIONERS.

Hereafter, medical practitioners desiring to engage in special studies, or pursue any of the recognized specialties, will have every opportunity afforded them. They can attend such lectures of the regular session as may be most suitable to their purpose, and can obtain from the Dean or members of the Faculty advice as to any special course by competent Instructors they may desire.

THE CLASS OF 1890-1891.

The class of the last winter session numbered 576, made up of representatives of the following States, Territories, Countries and Kingdoms:—

UNITED STATES.

Alabama, Indiana, Nebraska, South Carolina,
Arkansas, Iowa, New Hampshire, Tennessee,
California, Kansas, New Jersey, Texas,
Colorado, Kentucky, New York, Utah,
Connecticut, Maine, North Carolina, Virginia,
Delaware, Maryland, Ohio, Washington,
Dist. of Columbia, Massachusetts, Oregon, West Virginia,
Georgia, Minnesota, Pennsylvania, Wisconsin,
Idaho, Mississippi, Rhode Island, Wyoming,
Illinois,

FOREIGN COUNTRIES.

Asia Minor, India, New Brunswick, Sandwich Islands,
Brit. Columbia, Ireland, Nicaragua, Syria,
Canada, Japan, Nova Scotia, Turkey,
Central America, Mexico, Russia,
England,

The graduating class numbered 188, making the total number of graduates to date 9752.

ENTRANCE EXAMINATION.

Entrance examinations, as a test of fitness for entering upon the study of medicine, will be held Sept. 22d, Sept. 29th and Oct. 6th, at 10 A. M., and at other times by special arrangement.

To be admitted without examination, the applicant must show a teacher's certificate, or a diploma from some recognized literary or scientific school, or a certificate of having passed a college entrance examination, a college matriculation ticket, or a satisfactory certificate from the master of some academy or high school, or the certificate from the examiners of a County Medical Society. In the absence of such evidence of having acquired a suitable education, the applicant must stand an examination in English and elementary Physics, at the college, or at a distance, before some examiner appointed by the Faculty. To save time the applicant is advised to bring his certificate with him. Those who have been previously matriculated at other Medical, Dental or Pharmaceutical colleges exacting a preliminary examination, and all graduates of medicine, are exempt from this requirement.

EXAMINATIONS FOR ENTERING AS SECOND-YEAR STUDENTS.

Any student who has taken one or more courses in an accredited medical college, desiring to be graded as a second-year student on entrance must stand an examination in Inorganic Chemistry, Materia Medica, Physiological Physics, and part of Anatomy (Osteology, Syndesmology and Myology), unless he presents a satisfactory certificate of having passed in these branches. Graduates of Pharmacy, Doctors of Dentistry and Veterinary Surgery are received into this grade without examination.

EXAMINATIONS FOR ENTERING AS THIRD-YEAR STUDENTS.

Any student who has taken two or more courses at another accredited Medical College, desiring to be graded as a third-course student, must be examined in Materia Medica, Physiology, Anatomy and Chemistry, on entrance, unless he presents a satisfactory certificate of having passed the final examination in these branches. Graduates of accredited Medical Colleges may be received into the third grade without examination, and after taking the third-year course in this institution will receive the degree of M. D., on passing an examination in Therapeutics, Surgery, Practice of Medicine and Obstetrics.

EXAMINATION FOR THE DOCTORATE.

REQUIREMENTS FOR GRADUATION.

The examination for the degree of M. D., is held at the close of the winter term of lectures. The examination, conducted by the Faculty—each Professor in his own branch—will be written or oral. Students failing to reach the standard exacted for the degree of Doctor of Medicine may be credited as having passed on such branches as they have shown proficiency in, and will not be required to stand a second examination on those branches should they apply again. The presentation of a Thesis will not be required, unless in competition
for a prize. The candidates are examined in turn upon all the subjects of the third year, given on page 8, except those who have been previously examined and passed under regulations now existing. Certificates from other medical schools, testifying to a successful examination, are not accepted in lieu of the final examination for the degree by the Faculty of this College.

The candidate for the degree of M. D. must present a certificate of good moral character, and be at least twenty-one years of age. He must have attended at least three regular annual sessions of lectures, of which the last shall have been in this COLLEGE, and the previous ones either here, or in some regular College authorized to confer the degree of M. D., and in which Anatomy, Chemistry, Materia Medica, and Therapeutics, Physiology, Surgery, Practice of Medicine and Obstetrics are embraced in the Curriculum. He must have attended two courses of Clinical Instruction and of Practical Anatomy. Candidates for graduation will be required to show certificate of at least two courses of Practical Anatomy or Dissections, either at the Jefferson Medical College or some other accredited medical or dental college empowered to confer the degree of M. D. or D. D. S.*

He must exhibit his tickets, or other adequate evidence of attendance on the required courses of lectures, to the Dean of the Faculty, and give to the Faculty, at his examination, evidence of reasonable professional attainments. A grade based upon the work performed by him in the laboratories, noted and entered in registers, will be considered by the Faculty in determining his final graduating average.

Students of Dental Colleges in which a five-months' winter session is held, and where full courses are given on Anatomy, Materia Medica, Physiology and Chemistry, may become candidates, after attendance on two courses at such Colleges, and the second- and third-year courses at the Jefferson Medical College, provided that in all three annual sessions be attended.

Students of Colleges of Pharmacy where full courses are given on Materia Medica and Chemistry, may become candidates, after attendance on two courses at such colleges, and on the second- and third-year courses at the Jefferson Medical College, including, however, two courses in Anatomy.

FEES.

Students who have attended three full courses of lectures in other accredited medical colleges, are entitled to the ticket for the third year in the Jefferson Medical College for $100, without diploma fee.

Any regular graduate of medicine will receive the privileges of the third year, without final examination for the degree in medicine, for $70. If he desires in addition to pass the final examination and take his degree, the fee for diploma will be $30.

To graduates of approved Dental Colleges (taking two courses in the Jefferson Medical College) the fees for the second year are $80, and for the third year are

*To secure recognition by the Examining Boards of the Royal College of Physicians and the Royal College of Surgeons, London, and the Triple Qualification of Royal Colleges of Physicians and Surgeons of Edinburgh, and the Faculty of Physicians and Surgeons of Glasgow, the graduate of Jefferson Medical College must first have passed a recognized examination in Arts before commencing his professional studies. He must have attended four winter and four summer sessions in this College.

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$100 and a diploma fee; and of Colleges of Pharmacy the fee for a general ticket is $140 for the second year and for the third year $110 and diploma fee. All fees are payable in advance; promissory notes are under no circumstances accepted as payment; and no ticket is issued until full payment for the same has been made.

Matriculation, paid once. .......................... $ 5

FIRST YEAR.
Full Course, including Laboratory Work and Dissection, 140
Dissecting material $1 per part.

SECOND YEAR.
Full Course of Lectures, including Dissection and Clinics, 140
Dissecting material $1 per part.

THIRD YEAR.
Full Course, including Laboratory Work and Clinics, 100
Operating Surgery material $1.

No fee is charged for diploma, when the three years of study are spent in this college.

Students who do not take all three years at the Jefferson Medical College pay a diploma fee of $30 if they take the degree in Medicine.

HOSPITAL APPOINTMENTS.

Every year four Resident Physicians to the College Hospital and four substitutes are elected from the graduating class. These are chosen from the graduates standing highest in their examination. At the other hospitals of the city nearly forty resident appointments are made annually, for the most part by competition open to all graduates in medicine.

PRIZES.

The following Prizes are offered to the graduates of the Jefferson Medical College, at the Annual Commencement, in 1892:—

No. 1. Practice Prize. A Gold Medal, for the best essay on a subject pertaining to the Practice of Medicine.

No. 2. Therapeutics Prize. A Gold Medal, for the best examination in Therapeutics.

No. 3. Physiology Prize. A Gold Medal, for the best essay on some subject pertaining to Physiology.

No. 4. Surgery Prize. A Gold Medal, for the best essay on a subject pertaining to Surgery.

No. 5. Obstetrical Prize. A Gold Medal, for the best essay on a subject pertaining to Obstetrics, or for a specimen illustrating some point in relation thereto.

No. 6. Chemical Prize. A Gold Medal, for the best original work in the Chemical Laboratory.


No. 8. Pathology Prize. A Gold Medal, for the best essay on some subject connected with Pathology, or for a Pathological preparation.
TEXT-BOOKS.

FIRST YEAR.

Text-Books.

Physiology.—Chapman.
Chemistry.—Attfield; Holland on The Urine, the Common Poisons, and The Milk.
Anatomy.—Gray or Leidy; Klein's Histology.
Materia Medica.—Hare's Practical Therapeutics; Mann's Prescription Writing.

Books of Reference.

Taylor's Toxicology.
Quain.

SECOND AND THIRD YEAR.

Physiology.—Chapman.
Chemistry.—Attfield; Holland on The Urine, the Common Poisons and The Milk.
Anatomy.—Gray, or Leidy.
Therapeutics.—Hare.
Surgery.—Treves; Gross.
Obstetrics.—Parvin.
Gynaecology.—Winckel on Diseases of Women.
Paediatrics.—Smith on Diseases of Children.
Pathology.—Green; Klein.
Practice of Medicine.—Da Costa's Medical Diagnosis; Bartholow's Practice of Medicine.
Laryngology and Rhinology.—Cohen.
Medical Dictionaries.—Gould; Dunnglison.

INFORMATION FOR STUDENTS.

The personal expenses of the student are at least as low in Philadelphia as in any other large city. Students can board comfortably for from four to five dollars per week, fire and light included; and those who are willing to live at some distance from the College, or to club together in lodging rooms, can live at even less rates. Board during the summer is lower than in winter.

Students will save time and expense by going directly to the College, Tenth street above Walnut, on their arrival in the city. The Clerk will at once see them provided with board. The Dean will, if desired, attend to the collection of the drafts and checks of the student.

Students are advised to matriculate and procure their tickets without delay, as numbered seats are given in the order of matriculation.
### Graduates of The Jefferson Medical College of Philadelphia

**April, 1891.**

At a Public Commencement, held at the American Academy of Music on the 15th of April, 1891, the Degree of Doctor of Laws was conferred on Daniel G. Brinton, M.D., of Philadelphia, and the Degree of Doctor of Medicine on the following gentlemen, by the Hon. James Campbell, President of the College, after which the Valedictory Address to the Graduates was delivered by Professor J. M. da Costa, M.D., LL.D.

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<tr>
<th>Name</th>
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<td>Boyer, L. Luther</td>
<td>Kentucky, Pennsylvania</td>
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<td>Brown, Barton Levi</td>
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<td>McGeehey, Edward Heber</td>
<td>Pennsylvania</td>
</tr>
<tr>
<td>McCormick, Louis Provan</td>
<td>Pennsylvania</td>
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<tr>
<td>McEntire, Oscar Williams (M.D.)</td>
<td>Pennsylvania</td>
</tr>
<tr>
<td>McLaughlin, John Joseph</td>
<td>Pennsylvania</td>
</tr>
<tr>
<td>Maldonado, Ferdinand Nicholas (M.D.)</td>
<td>Mexico</td>
</tr>
</tbody>
</table>
NAME.  	 STATE OR COUNTRY.

Mallory, Edwin H. (M.D.), Iowa.

Moore, Nicholas Gibbon, North Carolina.

Morison, J. Louis D. (Ph.G.), Pennsylvania.


Morton, William Thomas, Missouri.

Moss, William Finley (M.D.), Ohio.

NAME.  	 STATE OR COUNTRY.

Newton, Francis Janvier, India.

Niles, John Southworth (M.E.), Pennsylvania.

Otis, William Henry (M.D.), Iowa.

Parramore, Edward Lytton (M.D.), California.

Parvin, Noble Butler, Pennsylvania.

Patrick, Nathan Edward (M.D.), Illinois.

Perce, Warren, Kansas.

Peter, Irvin Rue (M.D.), Missouri.

Pierce, Axel (M.D.), Ohio.

Powell, Frederick Adams, Virginia.

Powne, Norman Groves, Texas.

Price, Frederick Frailey, New Jersey.

Reith, Emil (Ph.G.), Pennsylvania.

Rennig, John Henry, Pennsylvania.

Reynolds, William Wilson (M.D.), Ohio.

Rice, Charles Samuel, Pennsylvania.

Robinhold, Lewis Charles, Pennsylvania.

Robinson, Joseph B. (M.D.), Missouri.

Rosailes, Nicolas, Nicaragua.

Rossiter, Henry James (B.A.), Canada.

Rottner, Charles Selmar, Pennsylvania.

Ruch, Charles Frank, Pennsylvania.

Saulsberry, William, Kentucky.

Schmehl, Seymour Trent, Pennsylvania.

Shanks, Frederick Hastings, California.

Sherman, George Howard (M.D.), Missouri.

Shipp, Milford Bard, Jr., Utah.

Shook, James Curry, Pennsylvania.

NAME.  	 STATE OR COUNTRY.

Shoup, Jesse J. (B.S.), Ohio.

Siegfried, Cyrus Sylvester, Pennsylvania.

Smith, Addison Whittaker, Pennsylvania.

Smith, George Calvin, Indiana.

Smith, John James (M.D.), Arkansas.

Smith, Matthew Manu (B.S., M.A.), Texas.

Snowball, James William (Ph.G.), Canada.


Spence, William Edwin (M.D.), Missouri.

Spencer, William Oliver, North Carolina.

Steele, Oscar Baker (B.E.), Pennsylvania.

Stein, Frank Ot, Pennsylvania.


Stevens, Robert W., Pennsylvania.

Stevens, William Bonard, Pennsylvania.

Stout, Amos Newton (M.D.), Illinois.

Strieby, Jacob Peter, Pennsylvania.

Swayne, Burton Willis, Pennsylvania.

Taylor, John Dempster, New York.

Teagarden, James Warren (M.D.), Pennsylvania.

Thurmond, Richard Jackson, Jr., Mississippi.


Tully, Edgar Warren (V.M.D.), Pennsylvania.

Underwood, Edward Shoemaker, Ohio.


Velasquez, Miguel Angel, Central America.

Wales, Westley Rogers, New Jersey.

Walker, Henry Crawford, Delaware.

Walner, Ephraim Le Rue, Pennsylvania.

Walters, Edwin Campbell, Pennsylvania.

Ward, J. M. Broomall (Ph.G.), Pennsylvania.

Ware, James Nicholas, Arkansas.

Waters, Oren Judson, Pennsylvania.

Weiser, Frank Ressler (Ph.G.), Pennsylvania.

Wells, William Hughes, Pennsylvania.

NAME.  	 STATE OR COUNTRY.

West, James Newton, Georgia.

White, Ernest Augustus, Maine.

White, Frank, Indiana.

Wickert, Victor Wilson, Pennsylvania.

Widger, George Haller, Pennsylvania.

Of the above there were from Pennsylvania........ 89

Ohio....................... 10

New Jersey................. 7

Missouri................... 7

Delaware................. 4

Iowa...................... 4

Illinois.................. 4

Kentucky................... 4

North Carolina........... 4

New York.................. 4

Texas.................. 4

California.............. 3

Georgia.................. 3

Indiana.................. 3

Maryland............. 3

Tennessee........... 3

Canada............. 3

Utah............. 2

Mississippi...... 2

British Columbia 2

Maine............. 2

Asia Minor.... 1

Nebraska.... 2

Ireland.... 1

Nicaragua.. 2

Turkey.... 1

Wyoming...... 1

South Carolina... 1

Indiana...... 1

Oregon...... 1

England.... 1

Wichita..... 1

Rhode Island.. 1

Wales..... 1

Total........ 188

The following prizes were awarded :—

1. A Prize of $100, by The Medical News, for the best Thesis embodying original research, to David Bevan, of Pennsylvania.

2. A Gold Medal, for the best Essay on a subject pertaining to the Practice of Medicine, to William L. Gilbert, M.D., of Georgia, with honorable mention of the Essay of Nicasio Rosales, of Nicaragua.

3. A Gold Medal, for the best Essay on a subject pertaining to Materia Medica, to William Harris, of Pennsylvania, with honorable mention of the Essay of Frederick Adams Powell, of Virginia.


7. A Gold Medal, for the best Essay on a subject pertaining to Chemistry, to Joseph Biss Imhoff, of Nebraska.

8. A Gold Medal, for the best Anatomical Preparation, to William Oliver Spencer, of North Carolina, with honorable mention of the Preparation of James Curry Shook, of Pennsylvania.